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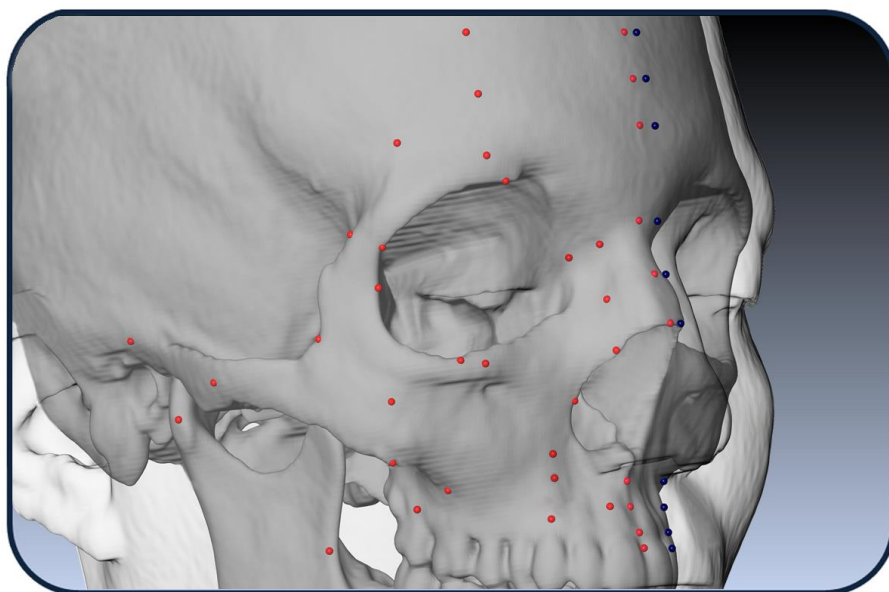
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**Facing the past –
In vivo facial soft tissue depths of a
modern adult population from
Germany**

by
Nicolle Thiemann



PhD in Archaeology
University of Edinburgh
2016

Declaration

This thesis is submitted as part of the requirement for a PhD in Archaeology from the School of History, Classics and Archaeology at the University of Edinburgh. The work has not been submitted for any other degree or professional qualification except as specified.

I hereby declare that this thesis has been composed by me and is based on my own work, except where otherwise stated. Sources of other information have been appropriately acknowledged.

Signature: _____

Nicolle Thiemann

Date: 14/03/2016

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Appendix A

Table A.1 - Modalities used in facial soft tissue depth studies

Cadavers/Needles	Radiographs	Ultrasound
1883 -- Welcker	1896 -- Welcker	1984 -- Helmer
1895 -- His	1926 -- Goldhamer	1985 -- Hodson <i>et al.</i>
1898 -- Kollmann; Kollmann & Büchly	1938 -- Edelmann	1986 -- Helmer <i>et al.</i>
1903 -- Birkner	1940 -- Köstler; Weißer (cited in Helmer, 1984)	1993 -- Lebedinskaya <i>et al.</i>
1905 -- Birkner (cited in Codinha, 2010); Fischer	1955 -- Gerassimov (cited in Helmer, 1984)	1996 -- Aulsebrook <i>et al.</i>
1907- - Birkner; Czekanowski	1958 -- Bankovski; Weining	2000 -- Manhein <i>et al.</i>
1909 -- Von Eggeling	1960 -- Ogawa (cited in Helmer, 1984)	2001 -- El-Mehallawi & Soliman
1922 -- Stadtmüller	1968 -- Leopold	2002 -- Wilkinson
1948 -- Suzuki	1969 -- Helwin (cited in Helmer, 1984)	2005 -- De Greef <i>et al.</i>
1965 -- Berger	1986 -- Dumont; a. Macho	2006 -- De Greef <i>et al.</i>
1969 -- Sutton	1987 -- George	2007 -- Chan; De Greef <i>et al.</i>
1980 -- Rhine & Campbell	1996 -- Aulsebrook <i>et al.</i>	2009 -- Balueva <i>et al.</i> ; De Greef <i>et al.</i> ; Werner
1982 -- Rhine <i>et al.</i> (cited in Codinha, 2010); Robetti <i>et al.</i>	1999 -- Garlie & Saunders	2010 -- Huculak
1985 -- Forrest	2000 -- Bermúdez & Mora (cited in Perlaza Ruiz, 2013)	2011 -- Barra MacNeil; Chan <i>et al.</i>
2002 -- Simpson & Henneberg	2001 -- Smith & Buschang	
2006 -- Domaracki & Stephan; Villanueva <i>et al.</i>	2002 -- Smith & Buschang; Williamson <i>et al.</i>	
2007 -- a. Suazo Galdames <i>et al.</i> ; b. Suazo	2005 -- Utsuno <i>et al.</i>	

Table A.1 continued

Cadavers/Needles continued	Radiographs continued	Ultrasound continued
Galdames <i>et al.</i> ; Valencia Caballero 2008 -- Suazo Galdames <i>et al.</i> 2009 -- Codinha; Tedeschi-Oliveira <i>et al.</i> 2010 -- Barriga <i>et al.</i> ; Codinha; Fourie <i>et al.</i> 2011 -- Torres Muñoz <i>et al.</i> 2013 -- de Almeida <i>et al.</i>	2007 -- Utsuno <i>et al.</i> 2010 -- a. Utsuno <i>et al.</i> ; b. Utsuno <i>et al.</i> 2011 -- Kurkcuoglu <i>et al.</i> 2014 -- Utsuno <i>et al.</i>	
MRI	CT scans	CBCT scans
2002 -- Sahni <i>et al.</i> 2004 -- Niinimäki & Kartunnen 2006 -- Rynn 2007 -- Niinimäki & Karttunen; Pluym <i>et al.</i> 2008 -- Sahni <i>et al.</i> 2011 -- Chen <i>et al.</i> 2012 -- Sipahioğlu <i>et al.</i>	1996 -- Phillips & Smuts 1999 -- Vignal (cited in Guyomarc'h, 2011) 2005 -- De Greef <i>et al.</i> ; Kim <i>et al.</i> 2007 -- Bellmann <i>et al.</i> ; Panenková 2009 -- Shimofusa <i>et al.</i> ; Tilotta <i>et al.</i> 2010 -- Cavanagh; Frigo <i>et al.</i> 2011 -- Cavanagh & Steyn; Guyomarc'h 2012 -- Dong <i>et al.</i> ; Panenková <i>et al.</i> ; Saxena <i>et al.</i> 2013 -- Cha; Guyomarc'h <i>et al.</i> 2014 -- Bulut <i>et al.</i> ; Parks <i>et al.</i> ; Shrimpton <i>et al.</i>	2010 -- Fourie <i>et al.</i> 2012 -- b. Hwang <i>et al.</i> ; 2013 -- Perlaza Ruiz

Table A.2 - Summary of studies based on cadaver samples, using the needle puncture technique

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Cranial Landmarks	Variables
Welcker (1883)	13 males	Middle aged	White European	9 midline	
His (1895)	33 males; 4 females	17 - 78	White European	9 midline; 6 bilateral	Sex; Age; Body Build/Nutritional Status
Kollmann (1898)	45 males; 8 females		White European	10 midline; 13 bilateral	Sex
Kollmann and Büchly (1898)	22 males; 7 females	20 - 83	White European	9 midline; 8 bilateral	Sex; Age; Nutritional Status
Birkner (1903)	6 males		Chinese	10 midline; 8 bilateral	Sex
Birkner, 1905 (cited in Codinha, 2010)	9 males		Chinese	10 midline; 8 bilateral	Sex
Fischer (1905) ^a	2 males		Papuan	10 midline; 8 bilateral	Sex
Birkner (1907)	6 males		Chinese	10 midline; 8 bilateral	Sex
Czekanowski (1907)	65 males; 54 females	15 - 75+	White European	4 midline; 4 bilateral	Sex; Age; Nutritional Status
Von Eggeling (1909) ^b	3 males; 1 female		Herero	10 midline; 8 bilateral	Sex
Stadtmüller (1922)	15 males; 2 females	22 - 56; a few of unknown age	Melanesian; New Hollander; Cameroon; Javanese	12 midline; 9 bilateral	Sex; Age; Ancestry
Suzuki (1948)	48 males; 7 females	< 40 (5♂; 1♀); > 40 (43♂; 6♀)	Japanese	10 midline; 14 bilateral	Sex; Nutritional Status

^a Fischer (1905) also measured the facial soft tissue depth on the head of a half-breed from North-Africa; ^b Von Eggeling (1909) also examined two female children (one 17-18 months old and one Hottentot foetus), but measured the facial soft tissue depth only on the Herero child.

Table A.2 continued

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Cranial Landmarks	Variables
Berger (1965) Leopold (1968)	62 males; 38 females	0.5 - 90	White European See Table A.3	9 midline; 11 bilateral	Sex; Age; Body Build
Sutton (1969)	69 males; 35 females	> Middle aged	European Australian	1 bilateral	Sex; Body Build
Rhine and Campbell (1980) ^c	44 males; 15 females	$\bar{X} = 38.0$ (♂); $\bar{X} = 32.8$ (♀)	African American	10 midline; 11 bilateral	Sex; Age; Nutritional Status
Moore, 1981 (cited in Huculak, 2010)	41 males; 17 females	2-100	African American	10 midline; 11 bilateral	Sex
Robetti, Iorio and Mascaro (1982)	65 males; 35 females	< 11 - 55+	Italian	5 midline; 7 bilateral	Sex; Age; Body Build
Rhine 1983 (cited in Taylor, 2001)	18 males; 6 females		South-Western American Indian	10 midline; 11 bilateral	Sex; Nutritional Status
Rhine and Moore, 1984 (cited in Taylor, 2001)	48 males; 25 females		European American	10 midline; 11 bilateral	Sex; Nutritional Status
Forrest (1985)	14 males; 10 females	10 - 89	European Australian	10 midline; 12 bilateral	Sex; Age
O'Grady <i>et al.</i> , 1990 (cited in Taylor, 20001)			European Australian	10 midline; 8 bilateral	Sex; Nutritional Status
Simpson and Henneberg (2002)	17 males; 23 females	52 - 101	European Australian	11 midline; 9 bilateral	Sex; Preservation
Domaracki and Stephan (2006)	19 males; 14 females	46 - 92	European Australian	7 midline; 3 bilateral	Sex
Villanueva <i>et al.</i> (2006)	168 males; 40 females		Mixed Mexican	10 midline; 11 bilateral	Sex; Body Build
Suazo Galdames <i>et al.</i> (2007a)	16 males; 16 females	24 - 50	Spanish	8 midline; 6 bilateral	Sex; Age; BMI
Valencia Caballero (2007)	20 males; 13 females	21 - 84	Spanish	10 midline; 11 bilateral	Sex; Age; Body Build

^c Rhine and Campbell (1980) also examined a European American sample, but decided to not report the results due to the small sample size

Table A.2 continued

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Cranial Landmarks	Variables
Suazo Galdames <i>et al.</i> (2008)	30 males	$\bar{x} = 38.4 \pm 7.67^1; \bar{x} = 38.6 \pm 8.37^2$	Chilean	8 midline; 6 bilateral	Preservation
Codinha (2009)	103 males; 48 females	20 - 99	Portuguese	8 midline; 12 bilateral	Sex; BMI
Tedeschi-Oliveira <i>et al.</i> (2009)	26 males; 14 females	17 - 90	Brazilian	10 midline; 11 bilateral	Sex; BMI; Skin Colour
Barriga <i>et al.</i> (2010)	27 males; 13 females	23 - 76	Chilean	8 midline; 6 bilateral	Sex
Codinha (2010)	103 males; 48 females	20 - 99	Portuguese	8 midline; 12 bilateral	Sex; BMI
Fourie <i>et al.</i> (2010) ^d	7 cadavers		Dutch	3 midline; 8 bilateral	
Torres Muñoz <i>et al.</i> (2011)	16 males; 16 females	24 - 50	Spanish	6 bilateral	Sex; BMI
de Almeida <i>et al.</i> (2013)	74 males; 26 females	41 - 60	Brazilian	13 midline; 18 bilateral	Sex

^d Fourie *et al.* (2010) used needle first and then scanned specimens using a CBCT scanner; ¹ = unembalmed, ² = embalmed

Table A.3 - Summary of studies based on radiographs

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Cranial Landmarks	Variables
Welcker (1896)	1 male		German	4 midline	Sex
Goldhamer (1926)	50 males	20 - 40	European	3 midline	Sex
Edelmann (1938)	2 males	21; 31	European; Chinese	10 midline	Sex; Age
Köstler (1940)	20 females	11 - 27	European	8 midline	Sex; Age
Weißer, 1940 (cited in Köstler, 1940, and in Helmer, 1984)	20 males	21 - 29	European	8 midline	Sex
Gerassimov, 1955 (cited in Helmer, 1984)	19 males and females	16 - 81	Russian	8 midline	
Bankovski (1958)	15 males; 9 females	20 - 84	European	9 midline; 4 bilateral	Sex; Age; Body Build
Weining (1958)	99 males; 21 females	17 - 42	European American	12 midline	Sex; Body Build; Nutritional Status
Ogawa, 1960 (cited in Chan, 2007, and in Helmer, 1984)	56 males; 12 females	22 - 44 (20 - 60, according to Helmer, 1984)	Japanese	10 midline; 7 bilateral	
Leopold (1968)	94 males; 120 females (living); and 102 males; 52 females (cadavers)	16 - 82 and 1 - 89	German	15 midline ^a (radiographs); and 5 midline; 5 bilateral (needle probe)	Sex; Age; Body Build
Helwin, 1969 (cited in Leopold, 1968, and in Helmer, 1984)	50 males; 50 females ^b			10 midline	Sex

^a Leopold (1968) x-rayed cadavers and living subjects; ^b Leopold (1968) wrote 50 males and 50 females, whereas Helmer (1984) wrote 50 males and females

Table A.3 continued

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Cranial Landmarks	Variables
Macho (1986a)	154 males; 199 females	21 - 83	Austrian		Sex; Age
Dumont (1986)	93 males; 101 females	9 - 15	White American	9 midline	Sex; Age; Occlusion
George (1987)	17 males; 37 females	14 - 34	European American	13 midline	
Aulsebrook <i>et al.</i> (1996) ^c	55 males	20 - 35	African; Zulu	16 midline; 38 bilateral	Sex; Age; BMI
Garlie and Saunders (1999)	47 males; 43 females	8 - 20	Canadian; European descent	14 midline	Sex; Age
Bermúdez and Mora, 2000 (cited in Perlaza Ruiz, 2013)	40 males; 40 females		Colombian	8 midline	Sex
Smith and Buschang (2001)	129 males; 159 females	6 - 19	French-Canadian	9 midline	Sex; Age
Smith and Buschang (2002)	124 males; 118 females	10 - 16	French-Canadian	12 midline	Sex; Age
Williamson, Nawrocki and Rathbun (2002)	77 males; 147 females	7 - 12	African American	15 midline	Sex; Age; Weight; Ancestry
Utsuno <i>et al.</i> (2005)	112 females	6 - 16	Japanese	12 midline	Sex; Age; Occlusion
Suazo Galdames <i>et al.</i> (2007b)	24 males; 24 females	21 - 50	Chilean	8 midline; 7 bilateral	Sex; Age; BMI
Utsuno <i>et al.</i> (2007)	153 males; 149 females	6 - 18	Japanese	12 midline	Sex; Age; Occlusion
Utsuno <i>et al.</i> (2010a)	162 males; 177 females	7 - 18	Japanese	10 midline	Sex; Age
Utsuno <i>et al.</i> (2010b)	45 females	17 - 33	Japanese	10 midline	Sex; Age; Occlusion
Kurkcuoglu <i>et al.</i> (2011)	100 males; 100 females		Turkish	10 midline	Sex; Occlusion
Utsuno <i>et al.</i> (2014)	66 males; 103 females	18 - 43	Japanese	10 midline	Sex; Age; Occlusion

^c Aulsebrook *et al.* (1996) took some measurements using lateral and oblique radiographs and some measurements using ultrasound

Table A.4 - Summary of studies based on ultrasound

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Cranial Landmarks	Variables
Helmer (1984)	61 males; 62 females	19 - 81	European; German	14 midline; 20 bilateral	Sex; Age; Body Build
Hodson <i>et al.</i> (1985)	28 males; 22 females	4 - 15	European American	10 midline; 10 bilateral	Sex; Age; Body Build
Lebedinskaya <i>et al.</i> (1993)	845 males; 850 females	20 - 50	Mixed ^a	10 midline; 10 bilateral	Sex; Ancestry
Aulsebrook <i>et al.</i> (1996) ^b	55 males	20 - 35	African; Zulu	16 midline; 38 bilateral	Sex; Age; BMI
Manhein <i>et al.</i> (2000)	304 males; 407 females	3 - 97	Mixed; American	8 midline; 11 bilateral	Sex; Age; Nutritional Status; Ancestry
El-Mehallawi and Soliman (2001)	120 males; 84 females	20 - 35	Egyptian	17 bilateral	Sex; Age; BMI
Wilkinson (2002)	99 males; 101 females	11 - 18	White British	10 midline; 11 bilateral	Sex; Age
De Greef <i>et al.</i> (2005) ^c	19 males; 14 females	39.0 ± 17.0	European	10 midline; 21 bilateral	Sex; Age; BMI
De Greef <i>et al.</i> (2006)	457 males; 510 females	18 - 91	European; Belgian	10 midline; 21 bilateral	Sex; Age; BMI
Chan (2007)	48 males; 53 females	18 - 87	Chinese American	7 midline; 12 bilateral	Sex; Age; BMI
De Greef <i>et al.</i> (2007)			See De Greef <i>et al.</i> (2005)		
Suazo Galdames <i>et al.</i> (2007b)	24 males; 24 females	21 - 50	Chilean	8 midline; 7 bilateral	Sex; Age; BMI
Balueva <i>et al.</i> (2009)	264 males; 289 females	18 - 50	Lithuanians (Europeans); Buryats (Asians)	5 midline; 15 bilateral	Sex; Age; Ancestry
De Greef <i>et al.</i> (2009)			See De Greef <i>et al.</i> (2006)		
Werner (2009)	37 males; 30 females	22 - 59	European; German	8 midline; 8 bilateral	Sex; Age; BMI; Posture
Huculak (2010)	21 males; 33 females	3 - 18	African Canadian	8 midline; 11 bilateral	Sex; Age; BMI
Barra MacNeil (2011)	11 males; 39 females	19 - 56+	First Nation Canadian	8 midline; 11 bilateral	Sex; Age
Chan <i>et al.</i> (2011)			See Chan (2007)		

^a Abkhazians, Armenians, Bashkirs, Buryats, Kazakhs, Koreans, Lithuanians, Russians, and Uzbeks; ^b Aulsebrook *et al.* (1996) took some measurements using radiographs and some using ultrasound; ^c De Greef *et al.* (2005) studied accuracy of measurements (CT vs. ultrasound)

Table A.5 - Summary of studies based on MRI examinations

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Cranial Landmarks	Variables
Helmer <i>et al.</i> (1986)	1 male	25		14 midline; 20 bilateral	Sex; Age
Sahni <i>et al.</i> (2002)	30 males; 30 females	18 - 40	Northwest Indian	13 midline; 8 bilateral	Sex; Age; BMI
Niinimäki & Karttunen (2006)	40 males; 38 females	18 - 50	Finns	13 midline; 18 bilateral	Sex; Age; BMI
Rynn (2006)	175 males; 190 females	20 - 60+	European; British	12 midline	Sex; Age; Ancestry
Niinimäki & Karttunen (2007)			See Niinimäki & Karttunen (2006)		
Pluym <i>et al.</i> (2007)	5 males; 5 females	18 - 30	Mixed	8 midline; 7 bilateral	Sex; Age
Sahni <i>et al.</i> (2008)	173 males; 127 females	18 - 70	Northwest Indian	13 midline; 8 bilateral	Sex; Age; BMI
Chen <i>et al.</i> (2011)	233 males; 192 females	17 - 60+	Chinese	16 midline; 15 bilateral	Sex; Age
Sipahioğlu <i>et al.</i> (2011)	79 males; 82 females	18 - 78	Turkish	9 midline	Sex; Age; BMI

Table A.6 - Summary of studies based on CBCT scans

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Cranial Landmarks	Variables
Fourie <i>et al.</i> (2010) ^a	7 cadavers		Dutch	3 midline; 8 bilateral	
Hwang <i>et al.</i> (2012b)	50 males; 50 females	20 - 36	Korean	10 midline; 21 bilateral	Sex; Age; BMI
Perlaza Ruiz (2013)	26 males; 4 females	18 - 35	Mixed Columbian	7 midline; 10 bilateral	Sex; Age; BMI

^a Fourie *et al.* (2010) measured facial soft tissue depths using a needle first, and then CBCT scanned the cadavers

Table A.7 - Summary of studies based on CT scans

Researcher(s)	<i>n</i>	Age Range (years)	Ancestry/Nationality	Number of Landmarks	Variables
Phillips and Smuts (1996)	16 males; 16 females	12 - 71	Mixed; South African	10 midline; 11 bilateral	Sex; Age
De Greef <i>et al.</i> (2005)	19 males; 14 females	39.0 ± 17.0	European	10 midline; 21 bilateral	Sex; Age; BMI
Bellmann <i>et al.</i> (2007) ^a	77 males; 58 females	16 - 89	European	10 midline; 8 bilateral	Sex; Age; BMI
De Greef <i>et al.</i> (2007) ^b			See De Greef <i>et al.</i> (2005)		
Panenkova (2007)	80 males; 80 females	18 - 87	Slovakian	6 midline; 8 bilateral	Sex; Age
Shimofusa <i>et al.</i> (2009)	33 males; 17 females	29 - 86	Japanese	8 midline; 2 bilateral	Sex; Age
Tilotta <i>et al.</i> (2009)	26 males; 59 females	20 - 65	European; French	13 midline; 13 bilateral	Sex; Age; BMI
Frigo <i>et al.</i> (2010)	56 males; 44 females	20 - 90	European; Italian		Sex; Ancestry
Cavanagh (2010); Cavanagh and Steyn (2011)	154 females	18 - 35	South African	13 midline; 15 bilateral	Sex; Age
Guyomarc'h (2011)	265 males; 235 females	18 - 96	French	12 midline; 26 bilateral	Sex; Age; BMI
Dong <i>et al.</i> (2012)	75 males; 125 females	18 - 32	Northern Chinese	10 midline; 10 bilateral	Sex; Age; BMI
Panenkova <i>et al.</i> (2012)			See Panenkova (2007)		
Saxena <i>et al.</i> (2012)	19 males; 21 females	21 - 50	Northern Indian	1 midline; 6 bilateral	Sex; Age
Cha (2013)	22 males; 18 females	20 - 27	South Korean	10 midline; 11 bilateral	Sex; Age; BMI; Facial Profile
Guyomarc'h <i>et al.</i> (2013)			See Guyomarc'h (2011)		
Bulut <i>et al.</i> (2014)	160 males; 160 females	18 - 80	Turkish	10 midline; 21 bilateral	Sex; Age; BMI
Parks <i>et al.</i> (2014)	190 males; 198 females	18 - 62	African; Asian; European; Hispanic	14 midline; 11 bilateral	Sex; Age; BMI; Ancestry
Shrimpton <i>et al.</i> (2014)	67 males; 89 females	7 - 86	European; French; Belgian	~ 7,500	Sex; Age; BMI

^a Bellman *et al.* (2007) examined cadavers; ^b De Greef *et al.* (2005) studied accuracy of measurements (CT vs. ultrasound)

Appendix B

Table B.1 - Examined NNH patients

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
1	001	M	27	72	1,86	20,81	Normal weight
2	002	M	21	80	1,80	24,69	Normal weight
3	003	M	54	82	1,78	25,88	Overweight
4	004	F	24	57	1,72	19,27	Underweight
5	005	M	66	76	1,65	27,92	Overweight
6	006	F	34	90	1,60	35,16	Obese
7	007	F	35	68	1,72	22,99	Normal weight
8	008	M	24	75	1,78	23,67	Normal weight
9	009	F	54	70	1,63	26,35	Overweight
10	010	M	67	93	1,73	31,07	Obese
11	011	M	62	80	1,72	27,04	Overweight
12	012	F	34	58	1,69	20,31	Normal weight
13	013	M	53	92	1,83	27,47	Overweight
14	014	M	44	80	1,83	23,89	Normal weight
15	015	F	32	52	1,59	20,57	Normal weight
16	016	F	46	80	1,70	27,68	Overweight
17	017	F	29	75	1,72	25,35	Overweight
18	018	M	66	78	1,75	25,47	Overweight
19	019	M	23	65	1,75	21,22	Normal weight
20	020	F	55	78	1,70	26,99	Overweight
21	022	F	47	69	1,55	28,72	Overweight
22	023	M	68	71	1,72	24,00	Normal weight
23	024	F	41	100	1,63	37,64	Obese
24	025	M	53	85	1,92	23,06	Normal weight
25	026	F	32	56	1,60	21,88	Normal weight
26	027	F	34	60	1,56	24,65	Normal weight
27	028	M	49	116	1,83	34,64	Obese
28	029	F	40	60	1,60	23,44	Normal weight
29	030	F	21	65	1,68	23,03	Normal weight
30	031	M	35	90	1,75	29,39	Overweight
31	032	F	25	70	1,68	24,80	Normal weight
32	033	M	35	96	1,80	29,63	Overweight
33	034	M	50	80	1,79	24,97	Normal weight
34	035	F	54	67	1,62	25,53	Overweight
35	036	F	36	100	1,76	32,28	Obese
36	037	M	67	81	1,80	25,00	Normal weight
37	038	M	49	90	1,90	24,93	Normal weight
38	039	F	42	67	1,65	24,61	Normal weight
39	040	M	68	70	1,72	23,66	Normal weight

Table B.1 continued

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
40	041	M	47	100	1.86	28.91	Overweight
41	042	M	31	98	1.84	28.95	Overweight
42	043	M	47	90	1.84	26.58	Overweight
43	044	F	53	50	1.59	19.78	Normal weight
44	045	M	20	120	1.85	35.06	Obese (Class II)
45	046	F	45	59	1.56	24.24	Normal weight
46	047	M	25	93	1.70	32.18	Obese (Class I)
47	048	F	52	56	1.72	18.93	Normal weight
48	049	M	31	80	1.80	24.69	Normal weight
49	050	F	35	70	1.70	24.22	Normal weight
50	051	F	51	78	1.64	29.00	Overweight
51	053	F	34	58	1.70	20.07	Normal weight
52	054	F	36	48	1.65	17.63	Underweight
53	055	M	29	85	1.75	27.76	Overweight
54	056	F	25	50	1.57	20.28	Normal weight
55	057	F	56	58	1.80	17.90	Underweight
56	058	F	44	100	1.55	41.62	Obese (class III)
57	059	M	35	75	1.78	23.67	Normal weight
58	060	M	76	96	1.84	28.36	Overweight
59	061	F	21	55	1.73	18.38	Underweight
60	062	F	82	80	1.60	31.25	Obese (Class I)
61	063	F	65	76	1.60	29.69	Overweight
62	064	M	27	76	1.80	23.46	Normal weight
63	065	M	68	70	1.70	24.22	Normal weight
64	066	M	56	72	1.73	24.06	Normal weight
65	067	M	43	81	1.74	26.75	Overweight
66	068	M	28	115	1.83	34.34	Obese (Class I)
67	069	M	75	72	1.72	24.34	Overweight
68	070	M	19	65	1.79	20.29	Normal weight
69	071	M	38	85	1.71	29.07	Overweight
70	072	F	46	89	1.67	31.91	Obese (Class I)
71	073	M	47	130	1.93	34.90	Obese (Class I)
72	074	M	67	84	1.80	25.93	Overweight
73	075	F	73	56	1.60	21.88	Normal weight
74	076	M	70	73	1.86	21.10	Normal weight
75	077	F	35	55	1.69	19.26	Normal weight
76	078	M	54	73	1.72	24.68	Normal weight
77	079	F	35	118	1.70	40.83	Obese (Class III)
78	080	F	34	60	1.75	19.59	Normal weight

Table B.1 continued

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
79	081	M	31	89	1.75	29.06	Overweight
80	082	F	58	64	1.74	21.14	Normal weight
81	083	F	23	53	1.60	20.70	Normal weight
82	084	F	39	120	1.75	39.18	Obese (Class II)
83	085	M	21	77	1.80	23.77	Normal weight
84	086	M	30	82	1.84	24.22	Normal weight
85	087	M	70	81	1.92	21.97	Normal weight
86	088	M	64	85	1.81	25.95	Overweight
87	089	M	28	92	1.91	25.22	Overweight
88	090	M	47	84	1.76	27.12	Overweight
89	091	F	19	70	1.70	24.22	Normal weight
90	092	M	34	81	1.80	25.00	Normal weight
91	093	M	37	145	1.78	45.76	Obese (Class III)
92	094	F	30	56	1.65	20.57	Normal weight
93	095	M	49	83	1.78	26.20	Overweight
94	096	M	35	112	1.96	29.15	Overweight
95	097	F	61	63	1.64	23.42	Normal weight
96	098	M	25	82	1.80	25.31	Overweight
97	099	M	54	74	1.69	25.91	Overweight
98	100	M	25	80	1.80	24.69	Normal weight
99	101	M	58	111	1.80	34.26	Obese (Class I)
100	102	F	38	61	1.74	20.15	Normal weight
101	103	M	38	82	1.76	26.47	Overweight
102	104	M	46	92	1.84	27.17	Overweight
103	105	M	29	58	1.83	17.32	Underweight
104	106	M	28	83	1.84	24.52	Normal weight
105	107	F	64	90	1.65	33.06	Obese (Class I)
106	108	F	49	72	1.69	25.21	Overweight
107	109	M	64	82	1.86	23.70	Normal weight
108	110	M	35	86	1.80	26.54	Overweight
109	111	F	64	61	1.65	22.41	Normal weight
110	112	F	18	117	1.70	40.48	Obese (Class III)
111	113	F	40	60	1.70	20.76	Normal weight
112	114	F	66	50	1.57	20.28	Normal weight
113	115	F	30	63	1.68	22.32	Normal weight
114	116	F	29	61	1.79	19.04	Normal weight
115	117	M	36	68	1.75	22.20	Normal weight
116	118	F	63	75	1.60	29.30	Overweight
117	119	F	42	55	1.63	20.70	Normal weight

Table B.1 continued

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
118	120	M	40	100	1.81	30.52	Obese (Class I)
119	121	F	52	82	1.70	28.37	Overweight
120	122	F	57	70	1.68	24.80	Normal weight
121	123	F	28	55	1.60	21.48	Normal weight
122	124	F	28	65	1.68	23.03	Normal weight
123	125	F	74	67	1.61	25.85	Overweight
124	126	M	21	77	1.81	23.50	Normal weight
125	127	M	73	85	1.72	28.73	Overweight
126	128	M	24	73	1.80	22.53	Normal weight
127	129	F	24	88	1.74	29.07	Overweight
128	130	F	24	53	1.68	18.78	Normal weight
129	131	M	23	95	1.72	32.11	Obese (Class I)
130	132	F	54	52	1.55	21.64	Normal weight
131	133	F	27	61	1.72	20.62	Normal weight
132	134	M	49	79	1.73	26.40	Overweight
133	135	F	41	52	1.53	22.21	Normal weight
134	136	F	52	80	1.76	25.83	Overweight
135	137	F	60	58	1.60	22.66	Normal weight
136	138	M	51	77	1.78	24.30	Normal weight
137	139	F	37	57	1.65	20.94	Normal weight
138	140	M	23	75	1.79	23.41	Normal weight
139	141	M	61	85	1.80	26.23	Overweight
140	142	M	31	70	1.80	21.60	Normal weight
141	143	M	23	77	1.78	24.30	Normal weight
142	144	M	38	103	1.84	30.42	Obese (Class I)
143	145	M	43	95	1.75	31.02	Obese (Class I)
144	146	F	43	65	1.60	25.39	Overweight
145	147	M	23	75	1.79	23.41	Normal weight
146	148	F	61	74	1.76	23.89	Normal weight
147	149	F	41	50	1.60	19.53	Normal weight
148	150	F	63	95	1.63	35.76	Obese (Class II)
149	151	F	29	47	1.56	19.31	Normal weight
150	152	M	57	95	1.75	31.02	Obese (Class I)
151	153	M	20	74	1.80	22.84	Normal weight
152	154	F	45	63	1.77	20.11	Normal weight
153	155	M	57	85	1.82	25.66	Overweight
154	156	M	44	70	1.70	24.22	Normal weight
155	157	F	35	60	1.65	22.04	Normal weight
156	158	F	58	59	1.67	21.16	Normal weight

Table B.1 continued

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
157	159	M	19	84	1.84	24.81	Normal weight
158	160	F	34	85	1.73	28.40	Overweight
159	161	M	62	98	1.80	30.25	Obese (Class I)
160	162	M	32	74	1.79	23.10	Normal weight
161	163	F	39	72	1.72	24.34	Normal weight
162	164	F	58	53	1.55	22.06	Normal weight
163	165	M	79	71	1.73	23.72	Normal weight
164	166	F	81	70	1.69	24.51	Normal weight
165	167	M	20	62	1.60	24.22	Normal weight
166	168	F	63	97	1.78	30.61	Obese (Class I)
167	169	F	50	117	1.68	41.45	Obese (Class III)
168	170	M	74	73	1.67	26.18	Overweight
169	171	M	47	128	1.90	35.46	Obese (Class II)
170	172	M	44	90	1.94	23.91	Normal weight
171	173	F	36	72	1.76	23.24	Normal weight
172	175	M	51	76	1.69	26.61	Overweight
173	176	M	43	88	1.80	27.16	Overweight
174	177	M	34	84	1.83	25.08	Overweight
175	178	M	52	93	1.89	26.04	Overweight
176	179	F	41	70	1.70	24.22	Normal weight
177	180	M	60	100	1.70	34.60	Obese (Class I)
178	181	M	25	80	1.93	21.48	Normal weight
179	182	M	25	70	1.85	20.45	Normal weight
180	183	F	35	84	1.65	30.85	Obese (Class I)
181	184	M	67	76	1.76	24.54	Normal weight
182	185	F	22	79	1.83	23.59	Normal weight
183	186	M	39	102	1.90	28.25	Overweight
184	187	M	18	80	1.80	24.69	Normal weight
185	188	F	59	66	1.60	25.78	Overweight
186	189	F	42	70	1.70	24.22	Normal weight
187	190	M	36	53	1.56	21.78	Normal weight
188	191	M	20	70	1.77	22.34	Normal weight
189	192	F	40	85	1.66	30.85	Obese (Class I)
190	193	M	19	83	1.95	21.83	Normal weight
191	194	F	84	62	1.60	24.22	Normal weight
192	195	F	48	74	1.73	24.73	Normal weight
193	196	M	43	88	1.76	28.41	Overweight
194	197	F	45	100	1.75	32.65	Obese (Class I)
195	198	M	20	65	1.85	18.99	Normal weight

Table B.1 continued

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
196	199	F	53	70	1.70	24.22	Normal weight
197	200	F	44	72	1.62	27.43	Overweight
198	201	M	50	88	1.80	27.16	Overweight
199	202	M	49	75	1.76	24.21	Normal weight
200	203	M	53	100	1.80	30.86	Obese (Class I)
201	204	M	22	65	1.78	20.52	Normal weight
202	205	M	53	77	1.70	26.64	Overweight
203	206	F	57	68	1.72	22.99	Normal weight
204	207	F	25	65	1.80	20.06	Normal weight
205	208	M	29	63	1.78	19.88	Normal weight
206	209	F	73	65	1.64	24.17	Normal weight
207	210	M	45	72	1.55	29.97	Overweight
208	211	M	54	92	1.87	26.31	Overweight
209	212	M	27	89	1.80	27.47	Overweight
210	213	M	44	81	1.69	28.36	Overweight
211	214	M	41	100	1.80	30.86	Obese (Class I)
212	215	F	44	70	1.66	25.40	Overweight
213	216	F	42	48	1.64	17.85	Underweight
214	217	F	39	72	1.72	24.34	Normal weight
215	218	M	44	86	1.74	28.41	Overweight
216	219	M	35	83	1.85	24.25	Normal weight
217	220	F	48	62	1.67	22.23	Normal weight
218	221	F	44	60	1.68	21.26	Normal weight
219	222	M	58	70	1.68	24.80	Normal weight
220	223	F	34	60	1.62	22.86	Normal weight
221	224	F	73	68	1.60	26.56	Overweight
222	225	F	31	70	1.63	26.35	Overweight
223	226	M	42	91	1.70	31.49	Obese (Class I)
224	227	M	51	95	1.82	28.68	Overweight
225	228	F	74	65	1.57	26.37	Overweight
226	230	F	53	63	1.64	23.42	Normal weight
227	231	M	58	95	1.76	30.67	Obese (Class I)
228	232	F	22	63	1.76	20.34	Normal weight
229	233	M	57	80	1.78	25.25	Overweight
230	234	M	47	65	1.75	21.22	Normal weight
231	235	M	66	92	1.74	30.39	Obese (Class I)
232	236	F	25	65	1.65	23.88	Normal weight
233	237	F	57	75	1.55	31.22	Obese (Class I)
234	238	F	33	59	1.64	21.94	Normal weight

Table B.1 continued

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
235	239	M	47	94	1.76	30.35	Obese (Class I)
236	240	F	50	54	1.57	21.91	Normal weight
237	241	M	79	78	1.80	24.07	Normal weight
238	242	M	31	87	1.82	26.26	Overweight
239	243	M	52	84	1.85	24.54	Normal weight
240	244	F	31	90	1.75	29.39	Overweight
241	245	M	53	72	1.78	22.72	Normal weight
242	246	F	61	66	1.59	26.11	Overweight
243	247	F	47	65	1.68	23.03	Normal weight
244	248	M	18	128	1.85	37.40	Obese (Class II)
245	249	M	72	85	1.71	29.07	Overweight
246	250	M	42	142	1.83	42.40	Obese (Class III)
247	251	F	45	50	1.55	20.81	Normal weight
248	252	M	48	93	1.86	26.88	Overweight
249	253	M	18	75	1.92	20.35	Normal weight
250	254	F	70	53	1.58	21.23	Normal weight
251	255	F	53	45	1.52	19.48	Normal weight
252	256	M	33	69	1.76	22.28	Normal weight
253	257	F	72	73	1.68	25.86	Overweight
254	258	M	39	85	1.80	26.23	Overweight
255	259	F	52	80	1.70	27.68	Overweight
256	260	F	21	65	1.70	22.49	Normal weight
257	261	F	40	65	1.70	22.49	Normal weight
258	262	M	24	90	1.85	26.30	Overweight
259	263	F	44	62	1.71	21.20	Normal weight
260	264	F	21	69	1.70	23.88	Normal weight
261	265	M	25	77	1.79	24.03	Normal weight
262	266	F	59	72	1.74	23.78	Normal weight
263	267	F	22	56	1.58	22.43	Normal weight
264	268	F	21	72	1.74	23.78	Normal weight
265	269	F	43	66	1.72	22.31	Normal weight
266	270	F	62	80	1.65	29.38	Overweight
267	271	F	62	92	1.70	31.83	Obese (Class I)
268	272	F	22	67	1.73	22.39	Normal weight
269	273	F	50	97	1.73	32.41	Obese (Class I)
270	274	M	59	92	1.75	30.04	Obese (Class I)
271	275	F	52	58	1.60	22.66	Normal weight
272	276	F	57	68	1.72	22.99	Normal weight
273	277	M	18	40	1.50	17.78	Underweight

Table B.1 continued

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
274	278	F	77	70	1.60	27.34	Overweight
275	279	M	58	72	1.86	20.81	Normal weight
276	280	F	52	78	1.67	27.97	Overweight
277	281	F	22	75	1.68	26.57	Overweight
278	282	M	24	80	1.70	27.68	Overweight
279	283	F	49	70	1.64	26.03	Overweight
280	284	F	32	79	1.77	25.22	Overweight
281	285	F	66	87	1.72	29.41	Overweight
282	287	M	39	82	1.86	23.70	Normal weight
283	288	F	19	60	1.64	22.31	Normal weight
284	290	F	58	73	1.52	31.60	Obese (Class I)
285	291	M	41	95	1.73	31.74	Obese (Class I)
286	292	M	70	95	1.77	30.32	Obese (Class I)
287	293	M	56	82	1.76	26.47	Overweight
288	294	M	37	70	1.76	22.60	Normal weight
289	295	M	35	93	1.78	29.35	Overweight
290	297	M	46	83	1.83	24.78	Normal weight
291	298	M	35	115	1.78	36.30	Obese (Class II)
292	299	F	46	113	1.61	43.59	Obese (Class III)
293	301	M	34	78	1.70	26.99	Overweight
294	302	M	36	80	1.82	24.15	Normal weight
295	303	F	66	92	1.58	36.85	Obese (Class II)
296	304	M	34	96	1.73	32.08	Obese (Class I)
297	305	F	25	48	1.70	16.61	Underweight
298	306	M	67	115	1.78	36.30	Obese (Class II)
299	308	F	57	61	1.64	22.68	Normal weight
300	309	F	27	50	1.63	18.82	Normal weight
301	311	F	37	83	1.65	30.49	Obese (Class I)
302	317	M	23	90	1.72	30.42	Obese (Class I)
303	321	F	23	56	1.68	19.84	Normal weight
304	323	M	21	89	1.92	24.14	Normal weight
305	324	F	34	55	1.69	19.26	Normal weight
306	325	M	20	73	1.90	20.22	Normal weight
307	327	F	50	70	1.59	27.69	Overweight
308	329	F	56	52	1.67	18.65	Normal weight
309	330	F	73	72	1.62	27.43	Overweight
310	333	F	36	66	1.53	29.37	Overweight
311	334	F	70	79	1.64	29.37	Overweight
312	335	F	73	67	1.64	24.91	Normal weight

Table B.1 continued

Case #	Pat. ID	Sex	Age (years)	Weight (kg)	Height (m)	BMI	BMI category
313	336	F	27	53	1.68	18.78	Normal weight
314	337	M	69	75	1.69	26.26	Overweight
315	338	F	36	75	1.70	25.95	Overweight
316	340	F	68	73	1.68	25.86	Overweight
317	341	M	61	87	1.83	25.98	Overweight
318	345	F	77	66	1.80	20.37	Normal weight
319	347	F	80	77	1.62	29.34	Overweight
320	349	M	64	82	1.78	25.88	Overweight

Table B.2 – Age distribution in the BMI categories, pooled sample

BMI (kg/m ²)	Age (years)				
	Minimum	Maximum	$\bar{x}$	$\check{x}$	σ
BMI < 18.5	18	56	32.4	29.0	13.3
18.5 > BMI < 25.0	18	84	40.3	36.0	16.7
25.0 > BMI < 30.0	22	80	49.9	50.0	14.9
30.0 > BMI < 35.0	23	82	48.8	47.0	14.1
35.0 > BMI < 40.0	18	67	43.0	40.0	17.8
40.0 > BMI	18	50	38.9	42.0	10.5

Table B.3 - Age distribution for males, in the BMI categories

BMI (kg/m ²)	Age (years)				
	Minimum	Maximum	$\bar{x}$	$\check{x}$	σ
BMI < 18.5	18	29	23.5	23.5	7.8
18.5 > BMI < 25.0	18	79	38.3	33.5	17.7
25.0 > BMI < 30.0	24	76	48.0	47.0	14.3
30.0 > BMI < 35.0	23	70	47.1	47.0	14.2
35.0 > BMI < 40.0	18	67	37.4	35.0	20.3
40.0 > BMI	37	42	39.5	39.5	3.5

Table B.4 - Age distribution for females, in the BMI categories

BMI (kg/m ²)	Age (years)				
	Minimum	Maximum	$\bar{x}$	$\check{x}$	σ
BMI < 18.5	21	56	36.0	36.0	14.0
18.5 > BMI < 25.0	19	84	41.8	40.0	15.9
25.0 > BMI < 30.0	22	80	52.7	52.0	15.7
30.0 > BMI < 35.0	35	82	51.9	50.0	13.9
35.0 > BMI < 40.0	34	66	48.6	41.0	14.8
40.0 > BMI	18	50	38.6	44.0	12.8

Table B.5 - Results of normality tests for each of the biometric variables within age categories, both sexes

Age Category		Shapiro-Wilk		
		Statistic	df	Sig.
Age (years)	< 24 years	.922	46	** .004
	25-34 years	.897	56	*** .000
	35-44 years	.889	69	*** .000
	45-54 years	.922	63	** .001
	55-64 years	.909	42	** .003
	65-84 years	.954	44	.081
Weight (kg)	< 24 years	.908	46	** .001
	25-34 years	.967	56	.128
	35-44 years	.948	69	** .006
	45-54 years	.969	63	.110
	55-64 years	.984	42	.804
	65-84 years	.962	44	.152
Height (m)	< 24 years	.979	46	.582
	25-34 years	.970	56	.174
	35-44 years	.986	69	.657
	45-54 years	.977	63	.296
	55-64 years	.974	42	.457
	65-84 years	.948	44	* .045
BMI (kg/m ²)	< 24 years	.830	46	*** .000
	25-34 years	.948	56	* .018
	35-44 years	.910	69	*** .000
	45-54 years	.907	63	*** .000
	55-64 years	.972	42	.399
	65-84 years	.947	44	* .044

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.6 - Results of normality tests for each of the biometric variables within BMI categories, both sexes

BMI Category		Shapiro-Wilk		
		Statistic	df	Sig.
Age (years)	1	.937	7	.609
	2	.935	160	***.000
	3	.971	99	*.028
	4	.977	54	.392
Weight (kg)	1	.888	7	.263
	2	.985	160	.072
	3	.980	99	.137
	4	.925	54	** .002
Height (m)	1	.958	7	.799
	2	.985	160	.081
	3	.988	99	.533
	4	.985	54	.734
BMI (kg/m ²)	1	.931	7	.560
	2	.933	160	***.000
	3	.942	99	***.000
	4	.833	54	***.000

1 = BMI < 18.5, 2 = 18.5 > BMI < 25.0, 3 = 25.0 > BMI < 30.0, and 4 = 30.0 > BMI

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.7 - Results of normality tests for biometric variables, males and females separately

Sex		Shapiro-Wilk		
		Statistic	df	Sig.
Age (years)	Male	.958	160	***.000
	Female	.970	160	**.002
Weight (kg)	Male	.918	160	***.000
	Female	.915	160	***.000
Height (m)	Male	.964	160	***.000
	Female	.986	160	.108
BMI (kg/m ²)	Male	.938	160	***.000
	Female	.903	160	***.000

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.8 - Results of normality tests for biometric variables in each of the age categories, males

Age Category		Shapiro-Wilk		
		Statistic	df	Sig.
Age (years)	< 24 years	.909	28	*.019
	25-34 years	.912	27	*.025
	35-44 years	.870	33	** .001
	45-54 years	.917	32	*.018
	55-64 years	.899	18	.056
	65-84 years	.856	22	** .004
Weight (kg)	< 24 years	.875	28	** .003
	25-34 years	.970	27	.603
	35-44 years	.895	33	** .004
	45-54 years	.882	32	** .002
	55-64 years	.954	18	.498
	65-84 years	.861	22	** .005
Height (m)	< 24 years	.893	28	** .008
	25-34 years	.958	27	.333
	35-44 years	.952	33	.156
	45-54 years	.952	32	.165
	55-64 years	.976	18	.903
	65-84 years	.947	22	.273
BMI (kg/m ²)	< 24 years	.865	28	** .002
	25-34 years	.971	27	.630
	35-44 years	.848	33	*** .000
	45-54 years	.898	32	** .006
	55-64 years	.928	18	.178
	65-84 years	.928	22	.112

*Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.9 - Results of normality tests for biometric variables in each of the age categories, females

Age Category		Shapiro-Wilk		
		Statistic	df	Sig.
Age (years)	< 24 years	.922	18	.141
	25-34 years	.882	29	**.004
	35-44 years	.902	36	**.004
	45-54 years	.908	31	*.011
	55-64 years	.915	24	*.045
	65-84 years	.971	22	.729
Weight (kg)	< 24 years	.806	18	**.002
	25-34 years	.897	29	**.008
	35-44 years	.874	36	**.001
	45-54 years	.936	31	.062
	55-64 years	.943	24	.189
	65-84 years	.984	22	.967
Height (m)	< 24 years	.946	18	.370
	25-34 years	.970	29	.552
	35-44 years	.943	36	.065
	45-54 years	.965	31	.391
	55-64 years	.982	24	.932
	65-84 years	.833	22	**.002
BMI (kg/m ²)	< 24 years	.747	18	***.000
	25-34 years	.885	29	**.004
	35-44 years	.859	36	***.000
	45-54 years	.879	31	**.002
	55-64 years	.955	24	.340
	65-84 years	.949	22	.307

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.10 - Results of normality tests for biometric variables in each of the BMI categories, males

BMI Category		Shapiro-Wilk		
		Statistic	df	Sig.
Age (years)	2	.893	68	***.000
	3	.969	59	.136
	4	.961	31	.302
Weight (kg)	2	.979	68	.298
	3	.969	59	.140
	4	.830	31	***.000
Height (m)	2	.951	68	*.010
	3	.982	59	.551
	4	.953	31	.184
BMI (kg/m ²)	2	.892	68	***.000
	3	.953	59	*.024
	4	.773	31	***.000

2 = 18.5 > BMI < 25.0, 3 = 25.0 > BMI < 30.0, and 4 = 30.0 > BMI

* Statistically significant at level $p < 0.05$

*** Statistically significant at level $p < 0.001$

Table B.11 - Results of normality tests for biometric variables in each of the BMI categories, females

BMI Category		Shapiro-Wilk		
		Statistic	df	Sig.
Age (years)	1	.958	5	.791
	2	.949	92	** .001
	3	.967	40	.290
	4	.963	23	.528
Weight (kg)	1	.762	5	* .038
	2	.984	92	.329
	3	.952	40	.089
	4	.943	23	.206
Height (m)	1	.933	5	.618
	2	.980	92	.179
	3	.971	40	.393
	4	.976	23	.827
BMI (kg/m ²)	1	.899	5	.405
	2	.951	92	** .002
	3	.907	40	** .003
	4	.854	23	** .003

1 = BMI < 18.5, 2 = 18.5 > BMI < 25.0, 3 = 25.0 > BMI < 30.0, and 4 = 30.0 > BMI

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

Table B.12 - Results of normality tests for facial soft tissue depth, both sexes

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.973	320	***.000
Supraglabella	.977	320	***.000
Glabella	.975	320	***.000
Nasion	.975	320	***.000
Mid-nasal	.983	319	** .001
Rhinion	.971	318	***.000
Subspinale	.983	316	** .001
Mid-philtrum	.984	310	** .002
Prosthion	.978	274	***.000
Alveolare	.980	247	** .001
Naso-labial ridge left	.990	286	* .043
Naso-labial ridge right	.985	287	** .005
Nasomaxillofrontale left	.957	320	***.000
Nasomaxillofrontale right	.967	320	***.000
Maxillofrontale left	.969	320	***.000
Maxillofrontale right	.976	320	***.000
Mid-nasomaxillare left	.944	311	***.000
Mid-nasomaxillare right	.958	315	***.000
Nasomaxillare left	.981	318	***.000
Nasomaxillare right	.973	318	***.000
Alare left	.983	320	** .001
Alare right	.986	320	** .003
Lateral nostril left	.969	320	***.000
Lateral nostril right	.952	320	***.000
Canine fossa left	.946	311	***.000
Canine fossa right	.933	312	***.000
Supracanine left	.974	280	***.000
Supracanine right	.985	286	** .004
Frontal eminence left	.979	318	***.000
Frontal eminence right	.971	320	***.000
Lateral frontal left	.977	319	***.000
Lateral frontal right	.980	320	***.000
Supraorbital left	.986	319	** .004
Supraorbital right	.985	320	** .002
Orbitale superius left	.996	320	.580
Orbitale superius right	.994	320	.253

Table B.12 continued

Orbitale left	.962	320	***.000
Orbitale right	.967	320	***.000
Suborbital left	.969	320	***.000
Suborbital right	.975	320	***.000
Submaxillar curvature left	.980	306	***.000
Submaxillar curvature right	.984	309	**.001
Ectomolare left	.984	246	**.007
Ectomolare right	.986	252	*.013
Frontotemporale left	.933	319	***.000
Frontotemporale right	.924	320	***.000
Frontomalare temporale left	.946	320	***.000
Frontomalare temporale right	.909	320	***.000
Frontomalare orbitale left	.978	320	***.000
Frontomalare orbitale right	.979	319	***.000
Ectoconchion left	.938	320	***.000
Ectoconchion right	.953	320	***.000
Mid-zygomatic left	.987	320	**.006
Mid-zygomatic right	.991	320	*.038
Zygomaxillare left	.983	320	**.001
Zygomaxillare right	.986	319	**.004
Occlusal line left	.984	244	**.009
Occlusal line right	.990	255	.065
Jugale left	.979	291	***.000
Jugale right	.936	309	***.000
Zygion left	.963	205	***.000
Zygion right	.966	242	***.000
Supraglenoid left	.986	181	.066
Supraglenoid right	.994	216	.469
Condylion laterale left	.971	172	**.001
Condylion laterale right	.989	210	.091

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.13 - Results of normality tests for log transformed data, both sexes

	Shapiro-Wilk		
	Statistic	df	Sig.
Trans. Metopion	.995	320	.459
Trans. Supraglabella	.995	320	.400
Trans. Glabella	.997	320	.719
Trans. Nasion	.996	320	.501
Trans. Mid-nasal	.997	319	.829
Trans. Rhinion	.995	318	.488
Trans. Subspinale	.995	316	.367
Trans. Mid-philtrum	.993	310	.168
Trans. Prosthion	.993	274	.206
Trans. Alveolare	.939	247	***.000
Trans. Naso-labial ridge left	.986	286	** .006
Trans. Naso-labial ridge right	.986	287	** .007
Trans. Nasomaxillofrontale left	.995	320	.378
Trans. Nasomaxillofrontale right	.998	320	.947
Trans. Maxillofrontale left	.994	320	.255
Trans. Maxillofrontale right	.993	320	.160
Trans. Mid-nasomaxillare left	.996	311	.560
Trans. Mid-nasomaxillare right	.997	315	.774
Trans. Nasomaxillare left	.987	318	** .005
Trans. Nasomaxillare right	.990	318	* .023
Trans. Alare left	.997	320	.852
Trans. Alare right	.998	320	.967
Trans. Lateral nostril left	.995	320	.355
Trans. Lateral nostril right	.991	320	* .038
Trans. Canine fossa left	.975	311	***.000
Trans. Canine fossa right	.976	312	***.000
Trans. Supracanine left	.993	280	.202
Trans. Supracanine right	.995	286	.399
Trans. Frontal eminence left	.994	318	.212
Trans. Frontal eminence right	.997	320	.729
Trans. Lateral frontal left	.997	319	.797
Trans. Lateral frontal right	.996	320	.633
Trans. Supraorbital left	.996	319	.521
Trans. Supraorbital right	.996	320	.567
Trans. Orbitale left	.996	320	.648
Trans. Orbitale right	.995	320	.476

Table B.13 continued

Trans. Suborbital left	.996	320	.533
Trans. Suborbital right	.995	320	.410
Trans. Submax. curvature left	.995	306	.447
Trans. Submax. curvature right	.995	309	.344
Trans. Ectomolare left	.990	246	.084
Trans. Ectomolare right	.986	252	*.013
Trans. Frontotemporale left	.993	319	.130
Trans. Frontotemporale right	.991	320	*.045
Trans. Frontomalare temp. left	.993	320	.170
Trans. Frontomalare temp. right	.987	320	**0.005
Trans. Frontomalare orb. left	.995	320	.329
Trans. Frontomalare orb. right	.993	319	.146
Trans. Ectoconchion left	.993	320	.174
Trans. Ectoconchion right	.997	320	.835
Trans. Mid-zygomatic left	.991	320	*.044
Trans. Mid-zygomatic right	.994	320	.297
Trans. Zygomaxillare left	.997	320	.810
Trans. Zygomaxillare right	.996	319	.546
Trans. Occlusal line left	.997	244	.944
Trans. Jugale left	.998	291	.970
Trans. Jugale right	.989	309	*.022
Trans. Zygion left	.991	205	.230
Trans. Zygion right	.996	242	.817
Trans. Condylion laterale left	.995	172	.874

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.14 - Results of normality tests for facial soft tissue depths, log transformed data, after conversion of outliers, both sexes

	Shapiro-Wilk		
	Statistic	df	Sig.
Trans. Metopion	.995	320	.459
Trans. Supraglabella	.995	320	.400
Trans. Glabella	.997	320	.719
Trans. Nasion	.996	320	.501
Trans. Mid-nasal	.997	319	.829
Trans. Rhinion	.995	318	.488
Trans. Subspinale	.995	316	.367
Trans. Mid-philtrum	.993	310	.168
Trans. Prosthion	.993	274	.206
Trans. Alveolare	.991	247	.128
Trans. Naso-labial ridge left	.992	286	.158
Trans. Naso-labial ridge right	.993	287	.208
Trans. Nasomaxillofrontale left	.995	320	.378
Trans. Nasomaxillofrontale right	.998	320	.947
Trans. Maxillofrontale left	.994	320	.255
Trans. Maxillofrontale right	.993	320	.160
Trans. Mid-nasomaxillare left	.996	311	.560
Trans. Mid-nasomaxillare right	.997	315	.774
Trans. Nasomaxillare left	.997	318	.769
Trans. Nasomaxillare right	.996	318	.513
Trans. Alare left	.997	320	.852
Trans. Alare right	.998	320	.967
Trans. Lateral nostril left	.995	320	.355
Trans. Lateral nostril right	.993	320	.123
Trans. Canine fossa left	.993	311	.199
Trans. Canine fossa right	.991	312	.055
Trans. Supracanine left	.993	280	.202
Trans. Supracanine right	.995	286	.399
Trans. Frontal eminence left	.994	318	.212
Trans. Frontal eminence right	.997	320	.729
Trans. Lateral frontal left	.997	319	.797
Trans. Lateral frontal right	.996	320	.633
Trans. Supraorbital left	.996	319	.521
Trans. Supraorbital right	.996	320	.567
Trans. Orbitale left	.996	320	.648
Trans. Orbitale right	.995	320	.476

Table B.14 continued

Trans. Suborbital left	.996	320	.533
Trans. Suborbital right	.995	320	.410
Trans. Submax. curvature left	.995	306	.447
Trans. Submax. curvature right	.995	309	.344
Trans. Ectomolare left	.990	246	.084
Trans. Ectomolare right	.986	252	*.015
Trans. Frontotemporale left	.993	319	.130
Trans. Frontotemporale right	.992	320	.087
Trans. Frontomalare temp. left	.993	320	.170
Trans. Frontomalare temp. right	.992	320	.092
Trans. Frontomalare orb. left	.995	320	.329
Trans. Frontomalare orb. right	.993	319	.146
Trans. Ectoconchion left	.993	320	.174
Trans. Ectoconchion right	.997	320	.835
Trans. Mid-zygomatic left	.990	320	*.025
Trans. Mid-zygomatic right	.994	320	.297
Trans. Zygomaxillare left	.997	320	.810
Trans. Zygomaxillare right	.996	319	.546
Trans. Occlusal line left	.997	244	.944
Trans. Jugale left	.998	291	.970
Trans. Jugale right	.994	309	.279
Trans. Zygion left	.991	205	.230
Trans. Zygion right	.996	242	.817
Trans. Condylion laterale left	.995	172	.874

* Statistically significant at level $p < 0.05$

Table B.15 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.975	320	***.000
Supraglabella	.980	320	***.000
Glabella	.983	320	**.001
Nasion	.980	320	***.000
Mid-nasal	.986	319	**.003
Rhinion	.975	318	***.000
Subspinale	.992	316	.084
Mid-philtrum	.985	310	**.002
Prosthion	.977	274	***.000
Alveolare	.992	247	.231
Nasio-labial ridge left	.986	286	**.008
Nasio-labial ridge right	.982	287	**.001
Nasomaxillofrontale left	.978	320	***.000
Nasomaxillofrontale right	.981	320	***.000
Maxillofrontale left	.972	320	***.000
Maxillofrontale right	.977	320	***.000
Mid-nasomaxillare left	.972	311	***.000
Mid-nasomaxillare right	.984	315	**.001
Nasomaxillare left	.995	318	.469
Nasomaxillare right	.987	318	**.005
Alare left	.989	320	*.017
Alare right	.990	320	*.036
Lateral nostril left	.981	320	***.000
Lateral nostril right	.986	320	**.003
Canine fossa left	.985	310	**.003
Canine fossa right	.980	312	***.000
Supracanine left	.977	280	***.000
Supracanine right	.985	286	**.004
Frontal eminence left	.979	318	***.000
Frontal eminence right	.979	320	***.000
Lateral frontal left	.983	319	**.001
Lateral frontal right	.981	320	***.000
Supraorbital left	.986	319	**.003
Supraorbital right	.987	320	**.006
Orbitale superius left	.996	320	.492
Orbitale superius right	.994	320	.214

Table B.15 continued

Orbitale left	.975	320	***.000
Orbitale right	.979	320	***.000
Suborbital left	.972	320	***.000
Suborbital right	.980	320	***.000
Submaxillar curvature left	.985	306	** .002
Submaxillar curvature right	.984	309	** .002
Ectomolare left	.984	246	** .007
Ectomolare right	.983	252	** .004
Frontotemporale left	.970	319	***.000
Frontotemporale right	.980	320	***.000
Frontomalare temporale left	.986	320	** .004
Frontomalare temporale right	.974	320	***.000
Frontomalare orbitale left	.983	320	** .001
Frontomalare orbitale right	.988	319	** .008
Ectoconchion left	.959	320	***.000
Ectoconchion right	.980	320	***.000
Mid-zygomatic left	.992	320	.069
Mid-zygomatic right	.995	320	.353
Zygomaxillare left	.987	320	** .006
Zygomaxillare right	.988	319	** .009
Occlusal line left	.986	244	* .019
Occlusal line right	.986	255	* .013
Jugale left	.989	291	* .025
Jugale right	.983	309	** .001
Zygion left	.971	205	***.000
Zygion right	.979	242	** .001
Supraglenoid left	.980	181	* .011
Supraglenoid right	.994	216	.469
Condylion laterale left	.982	172	* .027
Condylion laterale right	.989	210	.100

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.16 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (<24 years)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.974	46	.389
Supraglabella	.956	46	.080
Glabella	.951	46	.053
Nasion	.976	46	.466
Mid-nasal	.985	46	.804
Rhinion	.971	46	.295
Subspinale	.986	45	.852
Mid-philtrum	.989	46	.934
Prosthion	.980	46	.591
Alveolare	.981	45	.654
Nasio-labial ridge left	.985	46	.829
Nasio-labial ridge right	.981	46	.644
Nasomaxillofrontale left	.965	46	.176
Nasomaxillofrontale right	.967	46	.214
Maxillofrontale left	.929	46	** .008
Maxillofrontale right	.970	46	.284
Mid-nasomaxillare left	.986	45	.856
Mid-nasomaxillare right	.931	46	** .009
Nasomaxillare left	.950	46	* .048
Nasomaxillare right	.972	46	.337
Alare left	.964	46	.171
Alare right	.969	46	.254
Lateral nostril left	.955	46	.076
Lateral nostril right	.985	46	.820
Canine fossa left	.989	46	.942
Canine fossa right	.988	46	.899
Supracanine left	.974	45	.406
Supracanine right	.985	45	.832
Frontal eminence left	.955	45	.078
Frontal eminence right	.942	46	* .024
Lateral frontal left	.968	46	.235
Lateral frontal right	.964	46	.171
Supraorbital left	.953	46	.059
Supraorbital right	.992	46	.990
Orbitale superius left	.975	46	.411
Orbitale superius right	.964	46	.165

Table B.16 continued

Orbitale left	.981	46	.628
Orbitale right	.973	46	.366
Suborbital left	.978	45	.542
Suborbital right	.979	46	.556
Submaxillar curvature left	.980	45	.610
Submaxillar curvature right	.973	46	.355
Ectomolare left	.971	43	.348
Ectomolare right	.960	45	.118
Frontotemporale left	.950	46	*.048
Frontotemporale right	.955	46	.072
Frontomalare temporale left	.958	46	.099
Frontomalare temporale right	.984	46	.779
Frontomalare orbitale left	.955	46	.076
Frontomalare orbitale right	.970	46	.285
Ectoconchion left	.951	46	.053
Ectoconchion right	.977	46	.505
Mid-zygomatic left	.980	46	.600
Mid-zygomatic right	.992	46	.983
Zygomaxillare left	.986	46	.861
Zygomaxillare right	.988	46	.898
Occlusal line left	.982	44	.727
Occlusal line right	.961	45	.133
Jugale left	.948	44	*.045
Jugale right	.948	46	*.039
Zygion left	.946	32	.111
Zygion right	.939	37	*.044
Supraglenoid left	.969	32	.481
Supraglenoid right	.982	37	.795
Condylion laterale left	.965	30	.412
Condylion laterale right	.974	36	.544

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

Table B.17 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (25-34 years)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.971	56	.203
Supraglabella	.952	56	*.027
Glabella	.977	56	.367
Nasion	.976	56	.337
Mid-nasal	.976	56	.319
Rhinion	.985	56	.696
Subspinale	.968	56	.149
Mid-philtrum	.967	56	.125
Prosthion	.911	55	**0.001
Alveolare	.970	55	.185
Nasio-labial ridge left	.955	55	*.037
Nasio-labial ridge right	.969	56	.153
Nasomaxillofrontale left	.967	56	.131
Nasomaxillofrontale right	.969	56	.155
Maxillofrontale left	.984	56	.643
Maxillofrontale right	.970	56	.177
Mid-nasomaxillare left	.973	56	.250
Mid-nasomaxillare right	.977	56	.349
Nasomaxillare left	.973	56	.250
Nasomaxillare right	.989	56	.886
Alare left	.963	56	.082
Alare right	.980	56	.475
Lateral nostril left	.991	56	.954
Lateral nostril right	.950	56	*.022
Canine fossa left	.955	56	*.036
Canine fossa right	.964	56	.098
Supracanine left	.975	56	.289
Supracanine right	.972	56	.211
Frontal eminence left	.970	56	.174
Frontal eminence right	.974	56	.258
Lateral frontal left	.971	56	.196
Lateral frontal right	.962	56	.076
Supraorbital left	.962	56	.071
Supraorbital right	.948	56	*.018
Orbitale superius left	.992	56	.978
Orbitale superius right	.982	56	.552

Table B.17 continued

Orbitale left	.960	56	.059
Orbitale right	.964	56	.096
Suborbital left	.969	56	.166
Suborbital right	.950	56	*.021
Submaxillar curvature left	.975	56	.290
Submaxillar curvature right	.978	56	.392
Ectomolare left	.975	56	.308
Ectomolare right	.969	55	.163
Frontotemporale left	.937	56	**0.006
Frontotemporale right	.947	56	*.016
Frontomolare temporale left	.987	56	.783
Frontomolare temporale right	.935	56	**0.005
Frontomolare orbitale left	.977	56	.360
Frontomolare orbitale right	.979	56	.436
Ectoconchion left	.953	56	*.029
Ectoconchion right	.974	56	.254
Mid-zygomatic left	.979	56	.431
Mid-zygomatic right	.978	56	.405
Zygomaxillare left	.988	56	.838
Zygomaxillare right	.978	56	.396
Occlusal line left	.989	54	.902
Occlusal line right	.973	53	.270
Jugale left	.969	53	.186
Jugale right	.982	53	.611
Zygion left	.965	42	.220
Zygion right	.972	44	.361
Supraglenoid left	.935	35	*.041
Supraglenoid right	.972	43	.362
Condylion laterale left	.953	34	.149
Condylion laterale right	.981	43	.695

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

Table B.18 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (35-44 years)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.985	69	.564
Supraglabella	.973	69	.146
Glabella	.984	69	.548
Nasion	.974	69	.156
Mid-nasal	.946	69	**.005
Rhinion	.950	68	**.008
Subspinale	.983	69	.449
Mid-philtrum	.964	69	*.046
Prosthion	.979	62	.384
Alveolare	.978	58	.372
Nasio-labial ridge left	.978	65	.298
Nasio-labial ridge right	.974	65	.177
Nasomaxillofrontale left	.982	69	.427
Nasomaxillofrontale right	.980	69	.343
Maxillofrontale left	.956	69	*.017
Maxillofrontale right	.980	69	.345
Mid-nasomaxillare left	.986	68	.625
Mid-nasomaxillare right	.986	69	.634
Nasomaxillare left	.956	69	*.017
Nasomaxillare right	.975	69	.177
Alare left	.989	69	.821
Alare right	.975	69	.192
Lateral nostril left	.960	69	*.028
Lateral nostril right	.981	69	.388
Canine fossa left	.985	68	.568
Canine fossa right	.963	69	*.038
Supracanine left	.962	64	*.047
Supracanine right	.964	66	.050
Frontal eminence left	.978	69	.258
Frontal eminence right	.978	69	.259
Lateral frontal left	.982	69	.408
Lateral frontal right	.971	69	.112
Supraorbital left	.982	69	.403
Supraorbital right	.979	69	.289
Orbitale superius left	.984	69	.531
Orbitale superius right	.984	69	.539

Table B.18 continued

Orbitale left	.965	69	.052
Orbitale right	.959	69	*.023
Suborbital left	.962	69	*.035
Suborbital right	.974	69	.165
Submaxillar curvature left	.950	67	**0.009
Submaxillar curvature right	.972	68	.126
Ectomolare left	.975	58	.279
Ectomolare right	.954	62	*.020
Frontotemporale left	.952	69	*.010
Frontotemporale right	.975	69	.192
Frontomalare temporale left	.985	69	.566
Frontomalare temporale right	.967	69	.065
Frontomalare orbitale left	.972	69	.123
Frontomalare orbitale right	.976	69	.202
Ectoconchion left	.951	69	**0.009
Ectoconchion right	.969	69	.079
Mid-zygomatic left	.982	69	.404
Mid-zygomatic right	.967	69	.068
Zygomaxillare left	.974	69	.167
Zygomaxillare right	.977	69	.223
Occlusal line left	.964	56	.096
Occlusal line right	.971	57	.178
Jugale left	.983	66	.522
Jugale right	.984	67	.523
Zygion left	.964	50	.128
Zygion right	.971	57	.196
Supraglenoid left	.966	50	.152
Supraglenoid right	.966	54	.125
Condylion laterale left	.969	44	.269
Condylion laterale right	.973	53	.271

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

Table B.19 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (45-54 years)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.947	63	** .009
Supraglabella	.960	63	* .038
Glabella	.968	63	.098
Nasion	.964	63	.061
Mid-nasal	.968	63	.100
Rhinion	.963	63	.058
Subspinale	.960	63	* .039
Mid-philtrum	.950	61	* .015
Prosthion	.963	55	.087
Alveolare	.978	46	.532
Nasio-labial ridge left	.952	59	* .021
Nasio-labial ridge right	.954	59	* .027
Nasomaxillofrontale left	.980	63	.412
Nasomaxillofrontale right	.970	63	.132
Maxillofrontale left	.970	63	.122
Maxillofrontale right	.961	63	* .046
Mid-nasomaxillare left	.932	59	** .003
Mid-nasomaxillare right	.986	61	.694
Nasomaxillare left	.989	63	.839
Nasomaxillare right	.975	62	.245
Alare left	.958	63	* .032
Alare right	.968	63	.105
Lateral nostril left	.942	63	** .005
Lateral nostril right	.970	63	.125
Canine fossa left	.939	62	** .004
Canine fossa right	.945	63	** .007
Supracanine left	.943	56	* .011
Supracanine right	.948	56	* .017
Frontal eminence left	.976	62	.266
Frontal eminence right	.988	63	.797
Lateral frontal left	.973	62	.184
Lateral frontal right	.981	63	.459
Supraorbital left	.991	62	.936
Supraorbital right	.988	63	.792
Orbitale superius left	.980	63	.396
Orbitale superius right	.984	63	.562

Table B.19 continued

Orbitale left	.954	63	*.020
Orbitale right	.970	63	.121
Suborbital left	.967	63	.084
Suborbital right	.975	63	.223
Submaxillar curvature left	.950	63	*.012
Submaxillar curvature right	.979	62	.372
Ectomolare left	.947	50	*.026
Ectomolare right	.972	47	.321
Frontotemporale left	.973	62	.186
Frontotemporale right	.975	63	.220
Frontomalare temporale left	.964	63	.065
Frontomalare temporale right	.987	63	.731
Frontomalare orbitale left	.978	63	.305
Frontomalare orbitale right	.982	62	.507
Ectoconchion left	.975	63	.226
Ectoconchion right	.968	63	.100
Mid-zygomatic left	.976	63	.249
Mid-zygomatic right	.975	63	.217
Zygomaxillare left	.972	63	.170
Zygomaxillare right	.969	62	.115
Occlusal line left	.971	50	.263
Occlusal line right	.976	52	.384
Jugale left	.972	59	.195
Jugale right	.979	62	.373
Zygion left	.962	35	.255
Zygion right	.965	39	.264
Supraglenoid left	.952	30	.191
Supraglenoid right	.973	33	.558
Condylion laterale left	.968	30	.485
Condylion laterale right	.969	31	.483

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

Table B.20 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (55-64 years)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.939	42	*.025
Supraglabella	.968	42	.292
Glabella	.971	42	.367
Nasion	.970	42	.334
Mid-nasal	.984	42	.804
Rhinion	.972	42	.386
Subspinale	.980	40	.697
Mid-philtrum	.961	38	.200
Prosthion	.964	28	.440
Alveolare	.968	25	.594
Nasio-labial ridge left	.949	30	.154
Nasio-labial ridge right	.975	30	.691
Nasomaxillofrontale left	.969	42	.303
Nasomaxillofrontale right	.969	42	.309
Maxillofrontale left	.968	42	.291
Maxillofrontale right	.902	42	** .002
Mid-nasomaxillare left	.964	42	.200
Mid-nasomaxillare right	.948	42	.055
Nasomaxillare left	.979	42	.605
Nasomaxillare right	.935	42	*.020
Alare left	.973	42	.416
Alare right	.971	42	.362
Lateral nostril left	.940	42	*.028
Lateral nostril right	.968	42	.286
Canine fossa left	.975	38	.528
Canine fossa right	.972	38	.438
Supracanine left	.933	29	.067
Supracanine right	.960	32	.270
Frontal eminence left	.966	42	.246
Frontal eminence right	.990	42	.966
Lateral frontal left	.985	42	.853
Lateral frontal right	.978	42	.597
Supraorbital left	.949	42	.059
Supraorbital right	.940	42	*.028
Orbitale superius left	.969	42	.308
Orbitale superius right	.971	42	.353

Table B.20 continued

Orbitale left	.940	42	*.028
Orbitale right	.970	42	.333
Suborbital left	.964	42	.206
Suborbital right	.973	42	.419
Submaxillar curvature left	.959	37	.185
Submaxillar curvature right	.958	37	.171
Ectomolare left	.975	20	.849
Ectomolare right	.973	25	.717
Frontotemporale left	.961	42	.157
Frontotemporale right	.977	42	.558
Frontomolare temporale left	.979	42	.641
Frontomolare temporale right	.960	42	.146
Frontomolare orbitale left	.954	42	.087
Frontomolare orbitale right	.987	42	.914
Ectoconchion left	.955	42	.094
Ectoconchion right	.981	42	.691
Mid-zygomatic left	.976	42	.517
Mid-zygomatic right	.982	42	.750
Zygomaxillare left	.969	42	.302
Zygomaxillare right	.982	42	.738
Occlusal line left	.929	21	.132
Occlusal line right	.923	22	.088
Jugale left	.978	33	.727
Jugale right	.965	40	.253
Zygion left	.946	23	.245
Zygion right	.971	34	.495
Supraglenoid left	.962	19	.609
Supraglenoid right	.946	26	.185
Condylion laterale left	.968	21	.684
Condylion laterale right	.986	25	.971

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

Table B.21 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (65-84 years)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.981	44	.664
Supraglabella	.957	44	.097
Glabella	.968	44	.246
Nasion	.974	44	.427
Mid-nasal	.981	43	.675
Rhinion	.977	43	.516
Subspinale	.986	42	.872
Mid-philtrum	.971	40	.390
Prosthion	.985	28	.945
Alveolare	.972	18	.830
Nasio-labial ridge left	.955	31	.219
Nasio-labial ridge right	.953	31	.187
Nasomaxillofrontale left	.973	44	.396
Nasomaxillofrontale right	.960	44	.127
Maxillofrontale left	.976	44	.471
Maxillofrontale right	.970	44	.315
Mid-nasomaxillare left	.942	40	*.039
Mid-nasomaxillare right	.953	41	.088
Nasomaxillare left	.954	42	.092
Nasomaxillare right	.974	43	.421
Alare left	.983	44	.739
Alare right	.971	44	.316
Lateral nostril left	.971	44	.315
Lateral nostril right	.962	44	.149
Canine fossa left	.971	40	.397
Canine fossa right	.971	40	.401
Supracanine left	.959	30	.289
Supracanine right	.974	31	.639
Frontal eminence left	.965	44	.203
Frontal eminence right	.952	44	.064
Lateral frontal left	.966	44	.211
Lateral frontal right	.987	44	.885
Supraorbital left	.978	44	.545
Supraorbital right	.988	44	.927
Orbitale superius left	.980	44	.642
Orbitale superius right	.973	44	.382

Table B.21 continued

Orbitale left	.986	44	.855
Orbitale right	.968	44	.256
Suborbital left	.972	44	.361
Suborbital right	.973	44	.378
Submaxillar curvature left	.979	38	.673
Submaxillar curvature right	.972	40	.426
Ectomolare left	.977	19	.900
Ectomolare right	.968	17	.783
Frontotemporale left	.971	44	.318
Frontotemporale right	.968	44	.264
Frontomolare temporale left	.976	44	.499
Frontomolare temporale right	.961	44	.137
Frontomolare orbitale left	.957	44	.098
Frontomolare orbitale right	.945	44	*.037
Ectoconchion left	.963	44	.164
Ectoconchion right	.971	44	.320
Mid-zygomatic left	.989	44	.940
Mid-zygomatic right	.988	44	.915
Zygomaxillare left	.955	44	.081
Zygomaxillare right	.952	44	.065
Occlusal line left	.972	19	.815
Occlusal line right	.986	26	.965
Jugale left	.972	36	.491
Jugale right	.974	41	.453
Zygion left	.965	23	.561
Zygion right	.984	31	.909
Supraglenoid left	.908	15	.124
Supraglenoid right	.959	23	.445
Condylion laterale left	.932	13	.365
Condylion laterale right	.979	22	.905

* Statistically significant at level $p < 0.05$

Table B.22 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (BMI < 18.5)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.902	7	.344
Supraglabella	.935	7	.598
Glabella	.969	7	.891
Nasion	.986	7	.982
Mid-nasal	.820	7	.064
Rhinion	.889	6	.312
Subspinale	.960	7	.822
Mid-philtrum	.949	7	.725
Prosthion	.759	5	*.036
Alveolare	.984	5	.954
Nasio-labial ridge left	.946	6	.704
Nasio-labial ridge right	.878	7	.218
Nasomaxillofrontale left	.924	7	.500
Nasomaxillofrontale right	.948	7	.707
Maxillofrontale left	.933	7	.575
Maxillofrontale right	.897	7	.315
Mid-nasomaxillare left	.867	7	.175
Mid-nasomaxillare right	.899	7	.325
Nasomaxillare left	.871	7	.190
Nasomaxillare right	.926	7	.519
Alare left	.925	7	.510
Alare right	.895	7	.304
Lateral nostril left	.875	7	.206
Lateral nostril right	.967	7	.878
Canine fossa left	.933	7	.581
Canine fossa right	.845	7	.111
Supracanine left	.919	6	.498
Supracanine right	.794	6	.052
Frontal eminence left	.935	7	.592
Frontal eminence right	.917	7	.444
Lateral frontal left	.942	7	.656
Lateral frontal right	.872	7	.194
Supraorbital left	.886	7	.256
Supraorbital right	.897	7	.312
Orbitale superius left	.989	7	.991
Orbitale superius right	.965	7	.858

Table B.22 continued

Orbitale left	.935	7	.594
Orbitale right	.975	7	.930
Suborbital left	.966	7	.869
Suborbital right	.932	7	.571
Submaxillar curvature left	.817	7	.060
Submaxillar curvature right	.965	7	.858
Ectomolare left	.893	4	.396
Ectomolare right	.821	5	.120
Frontotemporale left	.935	7	.592
Frontotemporale right	.796	7	*.037
Frontomolare temporale left	.958	7	.802
Frontomolare temporale right	.916	7	.438
Frontomolare orbitale left	.948	7	.711
Frontomolare orbitale right	.903	7	.346
Ectoconchion left	.628	7	** .001
Ectoconchion right	.927	7	.527
Mid-zygomatic left	.861	7	.156
Mid-zygomatic right	.870	7	.187
Zygomaxillare left	.903	7	.350
Zygomaxillare right	.875	7	.203
Occlusal line left	.953	5	.762
Occlusal line right	.866	6	.212
Jugale left	.901	7	.338
Jugale right	.865	7	.169
Zygion left	.817	7	.060
Zygion right	.820	7	.065
Supraglenoid left	.706	7	** .004
Supraglenoid right	.791	7	*.034
Condylion laterale left	.833	7	.085
Condylion laterale right	.978	6	.940

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$

Table B.23 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (18.5 > BMI < 25.0)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.977	160	** .009
Supraglabella	.972	160	** .003
Glabella	.978	160	* .013
Nasion	.990	160	.324
Mid-nasal	.990	155	.345
Rhinion	.964	159	*** .000
Subspinale	.972	158	** .003
Mid-philtrum	.976	155	** .008
Prosthion	.975	138	* .012
Alveolare	.981	126	.067
Nasio-labial ridge left	.976	145	* .011
Nasio-labial ridge right	.966	146	** .001
Nasomaxillofrontale left	.959	160	*** .000
Nasomaxillofrontale right	.943	160	*** .000
Maxillofrontale left	.966	160	** .001
Maxillofrontale right	.975	160	** .005
Mid-nasomaxillare left	.980	154	* .027
Mid-nasomaxillare right	.984	157	.058
Nasomaxillare left	.989	158	.254
Nasomaxillare right	.984	158	.069
Alare left	.992	160	.555
Alare right	.990	160	.322
Lateral nostril left	.992	160	.558
Lateral nostril right	.987	160	.160
Canine fossa left	.991	155	.432
Canine fossa right	.984	155	.068
Supracanine left	.980	142	* .035
Supracanine right	.984	143	.090
Frontal eminence left	.969	159	** .001
Frontal eminence right	.973	160	** .003
Lateral frontal left	.960	160	*** .000
Lateral frontal right	.968	160	** .001
Supraorbital left	.982	160	* .035
Supraorbital right	.978	160	* .011
Orbitale superius left	.993	160	.622
Orbitale superius right	.990	160	.331

Table B.23 continued

Orbitale left	.980	160	*.021
Orbitale right	.984	160	.069
Suborbital left	.982	160	*.040
Suborbital right	.983	160	*.045
Submaxillar curvature left	.987	156	.138
Submaxillar curvature right	.992	156	.563
Ectomolare left	.990	136	.404
Ectomolare right	.978	136	*.027
Frontotemporale left	.965	160	***.000
Frontotemporale right	.988	160	.206
Frontomolare temporale left	.989	160	.255
Frontomolare temporale right	.987	160	.126
Frontomolare orbitale left	.986	160	.102
Frontomolare orbitale right	.977	159	*.010
Ectoconchion left	.961	160	***.000
Ectoconchion right	.985	160	.078
Mid-zygomatic left	.985	160	.074
Mid-zygomatic right	.991	160	.380
Zygomaxillare left	.985	160	.088
Zygomaxillare right	.990	160	.357
Occlusal line left	.989	135	.328
Occlusal line right	.987	135	.214
Jugale left	.992	151	.505
Jugale right	.989	158	.232
Zygion left	.975	117	*.026
Zygion right	.979	137	*.030
Supraglenoid left	.985	106	.299
Supraglenoid right	.990	126	.509
Condylion laterale left	.967	96	*.016
Condylion laterale right	.988	126	.334

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

**Table B.24 - Results of normality tests for facial soft tissue depths,
after conversion of outliers, both sexes
(25.0 > BMI < 30.0)**

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.971	99	*.026
Supraglabella	.977	99	.079
Glabella	.984	99	.290
Nasion	.981	99	.164
Mid-nasal	.965	99	*.010
Rhinion	.981	99	.177
Subspinale	.983	98	.244
Mid-philtrum	.985	95	.348
Prosthion	.979	85	.194
Alveolare	.975	74	.148
Nasio-labial ridge left	.979	86	.168
Nasio-labial ridge right	.968	85	*.033
Nasomaxillofrontale left	.981	99	.174
Nasomaxillofrontale right	.990	99	.662
Maxillofrontale left	.960	99	** .004
Maxillofrontale right	.963	99	** .007
Mid-nasomaxillare left	.964	96	*.010
Mid-nasomaxillare right	.985	97	.330
Nasomaxillare left	.989	99	.605
Nasomaxillare right	.994	99	.933
Alare left	.977	99	.086
Alare right	.986	99	.376
Lateral nostril left	.963	99	** .007
Lateral nostril right	.971	99	*.025
Canine fossa left	.965	95	*.012
Canine fossa right	.982	96	.215
Supracanine left	.979	82	.207
Supracanine right	.973	87	.063
Frontal eminence left	.994	98	.945
Frontal eminence right	.967	99	*.013
Lateral frontal left	.970	98	*.023
Lateral frontal right	.984	99	.291
Supraorbital left	.972	98	*.037
Supraorbital right	.981	98	.184
Orbitale superius left	.991	99	.763
Orbitale superius right	.994	99	.961

Table B.24 continued

Orbitale left	.963	99	** .007
Orbitale right	.957	99	** .003
Suborbital left	.962	99	** .006
Suborbital right	.981	99	.155
Submaxillar curvature left	.979	93	.141
Submaxillar curvature right	.983	93	.288
Ectomolare left	.981	70	.374
Ectomolare right	.965	73	* .042
Frontotemporale left	.984	98	.301
Frontotemporale right	.973	99	* .039
Frontomalare temporale left	.979	99	.119
Frontomalare temporale right	.984	99	.266
Frontomalare orbitale left	.984	99	.273
Frontomalare orbitale right	.989	99	.582
Ectoconchion left	.978	99	.097
Ectoconchion right	.981	99	.177
Mid-zygomatic left	.988	99	.552
Mid-zygomatic right	.995	99	.965
Zygomaxillare left	.975	99	.056
Zygomaxillare right	.992	98	.832
Occlusal line left	.974	74	.129
Occlusal line right	.980	77	.270
Jugale left	.990	91	.748
Jugale right	.990	92	.685
Zygion left	.990	59	.917
Zygion right	.968	62	.103
Supraglenoid left	.980	47	.611
Supraglenoid right	.966	53	.137
Condylion laterale left	.985	51	.759
Condylion laterale right	.970	54	.193

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

Table B.25 - Results of normality tests for facial soft tissue depths, after conversion of outliers, both sexes (30.0 > BMI)

	Shapiro-Wilk		
	Statistic	df	Sig.
Metopion	.979	54	.459
Supraglabella	.982	54	.598
Glabella	.989	54	.895
Nasion	.961	54	.079
Mid-nasal	.990	54	.932
Rhinion	.978	54	.408
Subspinale	.973	53	.263
Mid-philtrum	.971	53	.233
Prosthion	.974	46	.381
Alveolare	.966	42	.243
Nasio-labial ridge left	.974	49	.354
Nasio-labial ridge right	.973	49	.319
Nasomaxillofrontale left	.936	54	**007
Nasomaxillofrontale right	.986	54	.775
Maxillofrontale left	.977	54	.392
Maxillofrontale right	.972	54	.238
Mid-nasomaxillare left	.980	54	.511
Mid-nasomaxillare right	.985	54	.738
Nasomaxillare left	.988	54	.868
Nasomaxillare right	.990	54	.936
Alare left	.959	54	.060
Alare right	.971	54	.221
Lateral nostril left	.976	54	.333
Lateral nostril right	.977	54	.366
Canine fossa left	.981	54	.537
Canine fossa right	.941	54	*010
Supracanine left	.969	49	.227
Supracanine right	.969	50	.219
Frontal eminence left	.976	54	.346
Frontal eminence right	.990	54	.936
Lateral frontal left	.970	54	.185
Lateral frontal right	.982	54	.599
Supraorbital left	.973	54	.256
Supraorbital right	.975	54	.310
Orbitale superius left	.980	54	.518
Orbitale superius right	.980	54	.516
Orbitale left	.978	54	.436
Orbitale right	.976	54	.343

Table B.25 continued

Suborbital left	.975	54	.302
Suborbital right	.990	54	.929
Submaxillar curvature left	.984	50	.710
Submaxillar curvature right	.985	53	.728
Ectomolare left	.955	36	.149
Ectomolare right	.990	38	.983
Frontotemporale left	.981	54	.561
Frontotemporale right	.961	54	.078
Frontomolare temporale left	.968	54	.154
Frontomolare temporale right	.951	54	*.028
Frontomolare orbitale left	.973	54	.248
Frontomolare orbitale right	.974	54	.292
Ectoconchion left	.960	54	.071
Ectoconchion right	.982	54	.571
Mid-zygomatic left	.966	54	.125
Mid-zygomatic right	.979	54	.462
Zygomaxillare left	.975	54	.303
Zygomaxillare right	.971	54	.221
Occlusal line left	.982	30	.866
Occlusal line right	.973	37	.485
Jugale left	.989	42	.957
Jugale right	.957	52	.057
Zygion left	.980	22	.911
Zygion right	.959	36	.205
Supraglenoid left	.962	21	.562
Supraglenoid right	.973	30	.625
Condylion laterale left	.939	18	.276
Condylion laterale right	.975	24	.781

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

Table B.26 - Results of normality tests for facial soft tissue depths, after conversion of outliers, males and females

	Sex	Shapiro-Wilk		
		Statistic	df	Sig.
Metopion	Male	.983	160	*.041
	Female	.958	160	***.000
Supraglabella	Male	.982	160	*.035
	Female	.978	160	*.011
Glabella	Male	.985	160	.075
	Female	.976	160	** .006
Nasion	Male	.979	160	*.016
	Female	.990	160	.353
Mid-nasal	Male	.986	160	.123
	Female	.991	159	.462
Rhinion	Male	.979	160	*.014
	Female	.968	158	** .001
Subspinale	Male	.989	160	.274
	Female	.993	156	.652
Mid-philtrum	Male	.993	156	.640
	Female	.986	154	.112
Prosthion	Male	.977	143	*.018
	Female	.965	131	** .002
Alveolare	Male	.987	134	.264
	Female	.990	113	.609
Nasio-labial ridge left	Male	.994	147	.780
	Female	.984	139	.097
Nasio-labial ridge right	Male	.992	148	.593
	Female	.977	139	*.019
Nasomaxillofrontale left	Male	.962	160	***.000
	Female	.989	160	.240
Nasomaxillofrontale right	Male	.980	160	*.019
	Female	.984	160	.062
Maxillofrontale left	Male	.975	160	** .005
	Female	.984	160	.066
Maxillofrontale right	Male	.983	160	*.047
	Female	.978	160	*.013
Mid-nasomaxillare left	Male	.959	154	***.000
	Female	.974	157	** .005

Table B.26 continued

Mid-nasomaxillare right	Male	.981	157	*.027
	Female	.977	158	*.010
Nasomaxillare left	Male	.987	160	.145
	Female	.988	158	.212
Nasomaxillare right	Male	.981	160	*.029
	Female	.971	158	** .002
Alare left	Male	.984	160	.058
	Female	.987	160	.142
Alare right	Male	.990	160	.349
	Female	.979	160	*.015
Lateral nostril left	Male	.978	160	*.012
	Female	.989	160	.225
Lateral nostril right	Male	.986	160	.109
	Female	.986	160	.101
Canine fossa left	Male	.990	156	.324
	Female	.970	154	** .002
Canine fossa right	Male	.968	156	** .001
	Female	.982	156	*.043
Supracanine left	Male	.991	144	.530
	Female	.981	136	.050
Supracanine right	Male	.984	145	.099
	Female	.984	141	.092
Frontal eminence left	Male	.985	160	.073
	Female	.978	158	*.014
Frontal eminence right	Male	.975	160	** .005
	Female	.989	160	.264
Lateral frontal left	Male	.978	160	*.011
	Female	.980	159	*.023
Lateral frontal right	Male	.984	160	.064
	Female	.981	160	*.029
Supraorbital left	Male	.982	160	*.035
	Female	.980	159	*.024
Supraorbital right	Male	.989	160	.216
	Female	.987	160	.135
Orbitale superius left	Male	.995	160	.891
	Female	.991	160	.397
Orbitale superius right	Male	.993	160	.636
	Female	.986	160	.121

Table B.26 continued

Orbitale left	Male	.970	160	** .001
	Female	.976	160	** .007
Orbitale right	Male	.969	160	** .001
	Female	.983	160	* .042
Suborbital left	Male	.958	160	*** .000
	Female	.986	160	.105
Suborbital right	Male	.978	160	* .011
	Female	.981	160	* .030
Submaxillar curvature left	Male	.991	155	.397
	Female	.972	151	** .004
Submaxillar curvat. right	Male	.993	156	.617
	Female	.975	153	** .007
Ectomolare left	Male	.985	128	.177
	Female	.975	118	* .028
Ectomolare right	Male	.987	125	.277
	Female	.965	127	** .002
Frontotemporale left	Male	.973	160	** .003
	Female	.956	159	*** .000
Frontotemporale right	Male	.975	160	** .005
	Female	.974	160	** .004
Frontomalare temp. left	Male	.982	160	* .034
	Female	.980	160	* .023
Frontomalare temp. right	Male	.976	160	** .007
	Female	.970	160	** .001
Frontomalare orbitale left	Male	.984	160	.064
	Female	.978	160	* .011
Frontomalare orbitale right	Male	.989	159	.226
	Female	.985	160	.083
Ectoconchion left	Male	.955	160	*** .000
	Female	.961	160	*** .000
Ectoconchion right	Male	.974	160	** .004
	Female	.983	160	* .047
Mid-zygomatic left	Male	.974	160	** .004
	Female	.991	160	.417
Mid-zygomatic right	Male	.990	160	.350
	Female	.984	160	.065
Zygomaxillare left	Male	.981	160	* .027
	Female	.986	160	.103

Table B.26 continued

Zygomaxillare right	Male	.987	160	.144
	Female	.980	159	*.019
Occlusal line left	Male	.986	118	.262
	Female	.986	126	.228
Occlusal line right	Male	.996	127	.967
	Female	.977	128	*.025
Jugale left	Male	.976	146	*.012
	Female	.989	145	.319
Jugale right	Male	.982	157	*.035
	Female	.975	152	**0.008
Zygion left	Male	.966	95	*.014
	Female	.972	110	*.022
Zygion right	Male	.980	113	.084
	Female	.976	129	*.020
Supraglenoid left	Male	.973	80	.088
	Female	.969	101	*.018
Supraglenoid right	Male	.989	100	.560
	Female	.983	116	.155
Condylion laterale left	Male	.975	77	.127
	Female	.972	95	*.039
Condylion laterale right	Male	.983	96	.260
	Female	.986	114	.288

* Statistically significant at level $p < 0.05$

Table B.27 - Results of homogeneity tests for both sexes

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	3.089	1	318	.080
Supraglabella	Based on Mean	2.824	1	318	.094
Glabella	Based on Mean	.320	1	318	.572
Nasion	Based on Mean	5.057	1	318	*.025
Mid-nasal	Based on Mean	4.076	1	317	*.044
Rhinion	Based on Mean	2.440	1	316	.119
Subspinale	Based on Mean	3.545	1	314	.061
Mid-philtrum	Based on Mean	6.056	1	308	*.014
Prosthion	Based on Mean	1.671	1	272	.197
Alveolare	Based on Mean	1.097	1	245	.296
Nasio-labial ridge left	Based on Mean	5.727	1	284	*.017
Nasio-labial ridge right	Based on Mean	11.800	1	285	**.001
Nasomaxillofrontale left	Based on Mean	4.276	1	318	*.039
Nasomaxillofrontale right	Based on Mean	7.076	1	318	**.008
Maxillofrontale left	Based on Mean	4.004	1	318	*.046
Maxillofrontale right	Based on Mean	7.300	1	318	**.007
Mid-nasomaxillare left	Based on Mean	.039	1	309	.843
Mid-nasomaxillare right	Based on Mean	.315	1	313	.575
Nasomaxillare left	Based on Mean	1.075	1	316	.301
Nasomaxillare right	Based on Mean	.142	1	316	.707
Alare left	Based on Mean	.018	1	318	.893
Alare right	Based on Mean	.560	1	318	.455
Lateral nostril left	Based on Mean	5.068	1	318	*.025
Lateral nostril right	Based on Mean	5.857	1	318	*.016
Canine fossa left	Based on Mean	.033	1	308	.857
Canine fossa right	Based on Mean	.472	1	310	.493
Supracanine left	Based on Mean	9.046	1	278	**.003
Supracanine right	Based on Mean	4.485	1	284	*.035
Frontal eminence left	Based on Mean	.411	1	316	.522
Frontal eminence right	Based on Mean	4.521	1	318	*.034
Lateral frontal left	Based on Mean	2.249	1	317	.135
Lateral frontal right	Based on Mean	1.744	1	318	.188
Supraorbital left	Based on Mean	.009	1	317	.923
Supraorbital right	Based on Mean	.003	1	318	.956
Orbitale superius left	Based on Mean	.228	1	318	.633
Orbitale superius right	Based on Mean	.025	1	318	.874
Orbitale left	Based on Mean	1.579	1	318	.210
Orbitale right	Based on Mean	1.539	1	318	.216

Table B.27 continued

Suborbital left	Based on Mean	.994	1	318	.320
Suborbital right	Based on Mean	1.651	1	318	.200
Submaxillar curvature left	Based on Mean	1.738	1	304	.188
Submaxillar curvature right	Based on Mean	.627	1	307	.429
Ectomolare left	Based on Mean	3.913	1	244	*.049
Ectomolare right	Based on Mean	3.487	1	250	.063
Frontotemporale left	Based on Mean	.011	1	317	.916
Frontotemporale right	Based on Mean	.032	1	318	.858
Frontomolare temporale left	Based on Mean	.483	1	318	.488
Frontomolare temporale right	Based on Mean	1.123	1	318	.290
Frontomolare orbitale left	Based on Mean	1.078	1	318	.300
Frontomolare orbitale right	Based on Mean	2.187	1	317	.140
Ectoconchion left	Based on Mean	.576	1	318	.448
Ectoconchion right	Based on Mean	2.611	1	318	.107
Mid-zygomatic left	Based on Mean	5.315	1	318	*.022
Mid-zygomatic right	Based on Mean	1.011	1	318	.315
Zygomaxillare left	Based on Mean	4.067	1	318	*.045
Zygomaxillare right	Based on Mean	.295	1	317	.587
Occlusal line left	Based on Mean	1.046	1	242	.307
Occlusal line right	Based on Mean	1.101	1	253	.295
Jugale left	Based on Mean	2.064	1	289	.152
Jugale right	Based on Mean	1.178	1	307	.279
Zygion left	Based on Mean	1.105	1	203	.294
Zygion right	Based on Mean	1.823	1	240	.178
Supraglenoid left	Based on Mean	.348	1	179	.556
Supraglenoid right	Based on Mean	.134	1	214	.714
Condylion laterale left	Based on Mean	.150	1	170	.699
Condylion laterale right	Based on Mean	.110	1	208	.741

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$

Table B.28 - Results of homogeneity tests for males and females, log transformed data

		Levene Statistic	df1	df2	Sig.
Trans. Metopion	Based on Mean	.474	1	318	.492
Trans. Supraglabella	Based on Mean	.037	1	318	.847
Trans. Glabella	Based on Mean	.624	1	318	.430
Trans. Nasion	Based on Mean	.504	1	318	.478
Trans. Mid-nasal	Based on Mean	.005	1	317	.943
Trans. Rhinion	Based on Mean	.332	1	316	.565
Trans. Subspinale	Based on Mean	.515	1	314	.474
Trans. Mid-philtrum	Based on Mean	.136	1	308	.712
Trans. Prosthion	Based on Mean	.293	1	272	.589
Trans. Alveolare	Based on Mean	.275	1	245	.600
Trans. Nasio-labial ridge left	Based on Mean	.023	1	284	.879
Trans. Nasio-labial ridge right	Based on Mean	1.517	1	285	.219
Trans. Nasomaxillofronale left	Based on Mean	.850	1	318	.357
Trans. Nasomaxillofronale right	Based on Mean	.103	1	318	.748
Trans. Maxillofrontale left	Based on Mean	.025	1	318	.874
Trans. Maxillofrontale right	Based on Mean	.908	1	318	.341
Trans. Mid-nasomaxillare left	Based on Mean	2.151	1	309	.143
Trans. Mid-nasomaxillare right	Based on Mean	1.689	1	313	.195
Trans. Nasomaxillare left	Based on Mean	5.859	1	316	*.016
Trans. Nasomaxillare right	Based on Mean	1.423	1	316	.234
Trans. Alare left	Based on Mean	.647	1	318	.422
Trans. Alare right	Based on Mean	2.188	1	318	.140
Trans. Lateral nostril left	Based on Mean	2.524	1	318	.113
Trans. Lateral nostril right	Based on Mean	2.043	1	318	.154
Trans. Canine fossa left	Based on Mean	1.352	1	309	.246
Trans. Canine fossa right	Based on Mean	.111	1	310	.739
Trans. Supracanine left	Based on Mean	1.329	1	278	.250
Trans. Supracanine right	Based on Mean	.001	1	284	.981
Trans. Frontal eminence left	Based on Mean	.614	1	316	.434
Trans. Frontal eminence right	Based on Mean	.003	1	318	.953
Trans. Lateral frontal left	Based on Mean	.379	1	317	.538
Trans. Lateral frontal right	Based on Mean	.082	1	318	.775
Trans. Supraorbital left	Based on Mean	.826	1	317	.364
Trans. Supraorbital right	Based on Mean	.555	1	318	.457
Trans. Orbitale left	Based on Mean	1.788	1	318	.182
Trans. Orbitale right	Based on Mean	1.647	1	318	.200
Trans. Suborbital left	Based on Mean	.985	1	318	.322
Trans. Suborbital right	Based on Mean	.753	1	318	.386

Table B.28 continued

Trans. Submaxillar curvat. left	Based on Mean	1.200	1	304	.274
Trans. Submaxillar curvat. right	Based on Mean	.333	1	307	.564
Trans. Ectomolare left	Based on Mean	1.840	1	244	.176
Trans. Ectomolare right	Based on Mean	1.589	1	250	.209
Trans. Frontotemporale left	Based on Mean	2.145	1	317	.144
Trans. Frontotemporale right	Based on Mean	1.432	1	318	.232
Trans. Frontomalare temp. left	Based on Mean	.332	1	318	.565
Trans. Frontomalare temp. right	Based on Mean	.194	1	318	.660
Trans. Frontomalare orbit. left	Based on Mean	.121	1	318	.728
Trans. Frontomalare orbit. right	Based on Mean	.260	1	317	.610
Trans. Ectoconchion left	Based on Mean	.073	1	318	.788
Trans. Ectoconchion right	Based on Mean	.693	1	318	.406
Trans. Mid-zygomatic left	Based on Mean	11.313	1	318	** .001
Trans. Mid-zygomatic right	Based on Mean	5.449	1	318	* .020
Trans. Zygomaxillare left	Based on Mean	3.186	1	318	.075
Trans. Zygomaxillare right	Based on Mean	.833	1	317	.362
Trans. Occlusal line left	Based on Mean	.028	1	242	.867
Trans. Jugale left	Based on Mean	2.089	1	289	.149
Trans. Jugale right	Based on Mean	1.634	1	307	.202
Trans. Zygion left	Based on Mean	.687	1	203	.408
Trans. Zygion right	Based on Mean	.849	1	240	.358
Trans. Condylion laterale left	Based on Mean	.314	1	170	.576

*Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$

Table B.29 - Results of homogeneity tests for males and females (<24 years)

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	.166	1	44	.685
Supraglabella	Based on Mean	.017	1	44	.898
Glabella	Based on Mean	.675	1	44	.416
Nasion	Based on Mean	.584	1	44	.449
Mid-nasal	Based on Mean	.373	1	44	.544
Rhinion	Based on Mean	1.043	1	44	.313
Subspinale	Based on Mean	.013	1	43	.911
Mid-philtrum	Based on Mean	.062	1	44	.805
Prosthion	Based on Mean	.278	1	44	.601
Alveolare	Based on Mean	.011	1	43	.917
Nasio-labial ridge left	Based on Mean	.277	1	44	.601
Nasio-labial ridge right	Based on Mean	.576	1	44	.452
Nasomaxillofrontale left	Based on Mean	1.018	1	44	.318
Nasomaxillofrontale right	Based on Mean	2.248	1	44	.141
Maxillofrontale left	Based on Mean	.369	1	44	.547
Maxillofrontale right	Based on Mean	.208	1	44	.651
Mid-nasomaxillare left	Based on Mean	3.914	1	43	.054
Mid-nasomaxillare right	Based on Mean	1.009	1	44	.321
Nasomaxillare left	Based on Mean	1.624	1	44	.209
Nasomaxillare right	Based on Mean	3.400	1	44	.072
Alare left	Based on Mean	1.761	1	44	.191
Alare right	Based on Mean	2.217	1	44	.144
Lateral nostril left	Based on Mean	.014	1	44	.907
Lateral nostril right	Based on Mean	1.447	1	44	.235
Canine fossa left	Based on Mean	.362	1	44	.551
Canine fossa right	Based on Mean	.341	1	44	.562
Supracanine left	Based on Mean	.029	1	43	.865
Supracanine right	Based on Mean	.410	1	43	.525
Frontal eminence left	Based on Mean	.133	1	43	.717
Frontal eminence right	Based on Mean	1.469	1	44	.232
Lateral frontal left	Based on Mean	.399	1	44	.531
Lateral frontal right	Based on Mean	.038	1	44	.846
Supraorbital left	Based on Mean	.039	1	44	.844
Supraorbital right	Based on Mean	.078	1	44	.781
Orbitale superius left	Based on Mean	.008	1	44	.930
Orbitale superius right	Based on Mean	3.514	1	44	.067
Orbitale left	Based on Mean	.188	1	44	.666
Orbitale right	Based on Mean	.564	1	44	.457

Table B.29 continued

Suborbital left	Based on Mean	.580	1	43	.450
Suborbital right	Based on Mean	.698	1	44	.408
Submaxillar curvat. left	Based on Mean	.372	1	43	.545
Submaxillar curvat. right	Based on Mean	1.052	1	44	.311
Ectomolare left	Based on Mean	.076	1	41	.784
Ectomolare right	Based on Mean	.281	1	43	.598
Frontotemporale left	Based on Mean	2.174	1	44	.147
Frontotemporale right	Based on Mean	.150	1	44	.701
Frontomolare temp.left	Based on Mean	.386	1	44	.538
Frontomolare temp. right	Based on Mean	.021	1	44	.886
Frontomolare orbit.left	Based on Mean	.687	1	44	.412
Frontomolare orbit.right	Based on Mean	1.358	1	44	.250
Ectoconchion left	Based on Mean	.993	1	44	.325
Ectoconchion right	Based on Mean	.935	1	44	.339
Mid-zygomatic left	Based on Mean	.227	1	44	.636
Mid-zygomatic right	Based on Mean	.169	1	44	.683
Zygomaxillare left	Based on Mean	1.422	1	44	.239
Zygomaxillare right	Based on Mean	.776	1	44	.383
Occlusal line left	Based on Mean	.816	1	42	.372
Occlusal line right	Based on Mean	.530	1	43	.471
Jugale left	Based on Mean	.646	1	42	.426
Jugale right	Based on Mean	.390	1	44	.535
Zygion left	Based on Mean	.397	1	30	.533
Zygion right	Based on Mean	.836	1	35	.367
Supraglenoid left	Based on Mean	.021	1	30	.885
Supraglenoid right	Based on Mean	.114	1	35	.738
Condylion laterale left	Based on Mean	.002	1	28	.964
Condylion laterale right	Based on Mean	.085	1	34	.772

Table B.30 - Results of homogeneity tests for males and females (25-34 years)

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	2.546	1	54	.116
Supraglabella	Based on Mean	6.254	1	54	*.015
Glabella	Based on Mean	1.190	1	54	.280
Nasion	Based on Mean	1.667	1	54	.202
Mid-nasal	Based on Mean	.269	1	54	.606
Rhinion	Based on Mean	.283	1	54	.597
Subspinale	Based on Mean	2.054	1	54	.158
Mid-philtrum	Based on Mean	5.464	1	54	*.023
Prosthion	Based on Mean	8.349	1	53	** .006
Alveolare	Based on Mean	2.263	1	53	.138
Nasio-labial ridge left	Based on Mean	5.408	1	53	*.024
Nasio-labial ridge right	Based on Mean	2.799	1	54	.100
Nasomaxillofrontale left	Based on Mean	1.054	1	54	.309
Nasomaxillofrontale right	Based on Mean	1.064	1	54	.307
Maxillofrontale left	Based on Mean	.610	1	54	.438
Maxillofrontale right	Based on Mean	.038	1	54	.846
Mid-nasomaxillare right	Based on Mean	.155	1	54	.695
Nasomaxillare left	Based on Mean	.013	1	54	.908
Nasomaxillare right	Based on Mean	.041	1	54	.841
Alare left	Based on Mean	.361	1	54	.550
Alare right	Based on Mean	.368	1	54	.547
Lateral nostril left	Based on Mean	.550	1	54	.462
Lateral nostril right	Based on Mean	5.500	1	54	*.023
Canine fossa left	Based on Mean	4.498	1	54	*.039
Canine fossa right	Based on Mean	3.782	1	54	.057
Supracanine left	Based on Mean	2.844	1	54	.097
Supracanine right	Based on Mean	3.713	1	54	.059
Frontal eminence left	Based on Mean	1.099	1	54	.299
Frontal eminence right	Based on Mean	.062	1	54	.804
Lateral frontal left	Based on Mean	.001	1	54	.971
Lateral frontal right	Based on Mean	4.146	1	54	*.047
Supraorbital left	Based on Mean	3.351	1	54	.073
Supraorbital right	Based on Mean	5.054	1	54	*.029
Orbitale superius left	Based on Mean	.398	1	54	.531
Orbitale superius right	Based on Mean	1.026	1	54	.316
Orbitale left	Based on Mean	.887	1	54	.351
Orbitale right	Based on Mean	.806	1	54	.373

Table B.30 continued

Suborbital left	Based on Mean	3.522	1	54	.066
Suborbital right	Based on Mean	1.005	1	54	.321
Submaxillar curvature left	Based on Mean	1.219	1	54	.274
Submaxillar curvature right	Based on Mean	.288	1	54	.594
Ectomolare left	Based on Mean	.396	1	54	.532
Ectomolare right	Based on Mean	.002	1	53	.964
Frontotemporale left	Based on Mean	3.931	1	54	.053
Frontotemporale right	Based on Mean	4.258	1	54	*.044
Frontomolare temporale left	Based on Mean	.375	1	54	.543
Frontomolare temporale right	Based on Mean	9.556	1	54	** .003
Frontomolare orbitale left	Based on Mean	.073	1	54	.788
Frontomolare orbitale right	Based on Mean	.300	1	54	.586
Ectoconchion left	Based on Mean	1.464	1	54	.232
Ectoconchion right	Based on Mean	.160	1	54	.690
Mid-zygomatic left	Based on Mean	2575	1	54	.114
Mid-zygomatic right	Based on Mean	1.290	1	54	.261
Zygomaxillare left	Based on Mean	1.067	1	54	.306
Zygomaxillare right	Based on Mean	.038	1	54	.846
Occlusal line left	Based on Mean	.464	1	52	.499
Occlusal line right	Based on Mean	2.230	1	51	.142
Jugale left	Based on Mean	.315	1	51	.577
Jugale right	Based on Mean	.207	1	51	.651
Zygion left	Based on Mean	2.585	1	40	.116
Zygion right	Based on Mean	.107	1	42	.745
Supraglenoid left	Based on Mean	.400	1	33	.532
Supraglenoid right	Based on Mean	1.056	1	41	.310
Condylion laterale left	Based on Mean	1.271	1	32	.268
Condylion laterale right	Based on Mean	.062	1	41	.805

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$

Table B.31 - Results of homogeneity tests for males and females (35-44 years)

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	.113	1	67	.737
Supraglabella	Based on Mean	.094	1	67	.760
Glabella	Based on Mean	.141	1	67	.709
Nasion	Based on Mean	4.774	1	67	*.032
Mid-nasal	Based on Mean	1.613	1	67	.208
Rhinion	Based on Mean	.992	1	66	.323
Subspinale	Based on Mean	6.083	1	67	*.016
Mid-philtrum	Based on Mean	.779	1	67	.381
Prosthion	Based on Mean	.064	1	60	.802
Alveolare	Based on Mean	1.904	1	56	.173
Nasio-labial ridge left	Based on Mean	.554	1	63	.459
Nasio-labial ridge right	Based on Mean	1.429	1	63	.236
Nasomaxillofrontale left	Based on Mean	.328	1	67	.569
Nasomaxillofrontale right	Based on Mean	.012	1	67	.913
Maxillofrontale left	Based on Mean	.390	1	67	.534
Maxillofrontale right	Based on Mean	.029	1	67	.866
Mid-nasomaxillare left	Based on Mean	.536	1	66	.467
Mid-nasomaxillare right	Based on Mean	.355	1	67	.553
Nasomaxillare left	Based on Mean	.136	1	67	.713
Nasomaxillare right	Based on Mean	1.891	1	67	.174
Alare left	Based on Mean	.073	1	67	.788
Alare right	Based on Mean	.540	1	67	.465
Lateral nostril left	Based on Mean	.386	1	67	.536
Lateral nostril right	Based on Mean	.714	1	67	.401
Canine fossa left	Based on Mean	3.397	1	66	.070
Canine fossa right	Based on Mean	1.574	1	67	.214
Supracanine left	Based on Mean	1.961	1	62	.166
Supracanine right	Based on Mean	.407	1	64	.526
Frontal eminence left	Based on Mean	.476	1	67	.493
Frontal eminence right	Based on Mean	1.137	1	67	.290
Lateral frontal left	Based on Mean	1.125	1	67	.293
Lateral frontal right	Based on Mean	1.696	1	67	.197
Supraorbital left	Based on Mean	.083	1	67	.774
Supraorbital right	Based on Mean	.006	1	67	.937
Orbitale superius left	Based on Mean	.231	1	67	.632
Orbitale superius right	Based on Mean	.873	1	67	.354
Orbitale left	Based on Mean	.006	1	67	.936
Orbitale right	Based on Mean	.140	1	67	.709

Table B.31 continued

Suborbital left	Based on Mean	.011	1	67	.917
Suborbital right	Based on Mean	.638	1	67	.427
Submaxillar curvat. left	Based on Mean	.069	1	65	.794
Submaxillar curvat. right	Based on Mean	2.021	1	66	.160
Ectomolare left	Based on Mean	.176	1	56	.677
Ectomolare right	Based on Mean	1.236	1	60	.271
Frontotemporale left	Based on Mean	.008	1	67	.929
Frontotemporale right	Based on Mean	2.699	1	67	.105
Frontomolare temp. left	Based on Mean	.051	1	67	.823
Frontomolare temp. right	Based on Mean	.736	1	67	.394
Frontomolare orbit. left	Based on Mean	.340	1	67	.562
Frontomolare orbit. right	Based on Mean	2.266	1	67	.137
Ectoconchion left	Based on Mean	.134	1	67	.715
Ectoconchion right	Based on Mean	1.233	1	67	.271
Mid-zygomatic left	Based on Mean	2.671	1	67	.107
Mid-zygomatic right	Based on Mean	.111	1	67	.740
Zygomaxillare left	Based on Mean	1.041	1	67	.311
Zygomaxillare right	Based on Mean	.028	1	67	.868
Occlusal line left	Based on Mean	.020	1	54	.889
Occlusal line right	Based on Mean	.725	1	55	.398
Jugale left	Based on Mean	.337	1	64	.564
Jugale right	Based on Mean	1.179	1	65	.282
Zygion left	Based on Mean	.170	1	48	.682
Zygion right	Based on Mean	.023	1	55	.879
Supraglenoid left	Based on Mean	.033	1	48	.856
Supraglenoid right	Based on Mean	.359	1	52	.552
Condylion laterale left	Based on Mean	.029	1	42	.866
Condylion laterale right	Based on Mean	.010	1	51	.923

* Statistically significant at level $p < 0.05$

Table B.32 - Results of homogeneity tests for males and females (45-54 years)

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	5.318	1	61	*.025
Supraglabella	Based on Mean	2.231	1	61	.140
Glabella	Based on Mean	.867	1	61	.355
Nasion	Based on Mean	5.447	1	61	*.023
Mid-nasal	Based on Mean	8.990	1	61	**0.004
Rhinion	Based on Mean	13.447	1	61	**0.001
Subspinale	Based on Mean	2.364	1	61	.129
Mid-philtrum	Based on Mean	1.926	1	59	.170
Prosthion	Based on Mean	.138	1	53	.712
Alveolare	Based on Mean	.719	1	44	.401
Nasio-labial ridge left	Based on Mean	3.977	1	57	.051
Nasio-labial ridge right	Based on Mean	4.312	1	57	*.042
Nasomaxillofrontale left	Based on Mean	2.017	1	61	.161
Nasomaxillofrontale right	Based on Mean	3.086	1	61	.084
Maxillofrontale left	Based on Mean	.351	1	61	.556
Maxillofrontale right	Based on Mean	3.244	1	61	.077
Mid-nasomaxillare left	Based on Mean	.184	1	57	.669
Mid-nasomaxillare right	Based on Mean	.069	1	59	.794
Nasomaxillare left	Based on Mean	.259	1	61	.613
Nasomaxillare right	Based on Mean	.063	1	60	.803
Alare left	Based on Mean	11218	1	61	**0.001
Alare right	Based on Mean	5.778	1	61	*.019
Lateral nostril left	Based on Mean	10.201	1	61	**0.002
Lateral nostril right	Based on Mean	10.906	1	61	**0.002
Canine fossa left	Based on Mean	.000	1	60	.995
Canine fossa right	Based on Mean	3.618	1	61	.062
Supracanine left	Based on Mean	4.567	1	54	*.037
Supracanine right	Based on Mean	4.863	1	54	*.032
Frontal eminence left	Based on Mean	.053	1	60	.819
Frontal eminence right	Based on Mean	.894	1	61	.348
Lateral frontal left	Based on Mean	.189	1	60	.666
Lateral frontal right	Based on Mean	1.289	1	61	.261
Supraorbital left	Based on Mean	.878	1	60	.353
Supraorbital right	Based on Mean	.002	1	61	.966
Orbitale superius left	Based on Mean	.016	1	61	.901
Orbitale superius right	Based on Mean	1.977	1	61	.165
Orbitale left	Based on Mean	.673	1	61	.415
Orbitale right	Based on Mean	2.370	1	61	.129

Table B.32 continued

Suborbital left	Based on Mean	.115	1	61	.736
Suborbital right	Based on Mean	2.946	1	61	.091
Submaxillar curvat. left	Based on Mean	3.242	1	61	.077
Submaxillar curvat. right	Based on Mean	1.547	1	60	.218
Ectomolare left	Based on Mean	2.934	1	48	.093
Ectomolare right	Based on Mean	6.120	1	45	*.017
Frontotemporale left	Based on Mean	2.452	1	60	.123
Frontotemporale right	Based on Mean	2.530	1	61	.117
Frontomolare temp. left	Based on Mean	.290	1	61	.592
Frontomolare temp. right	Based on Mean	.741	1	61	.393
Frontomolare orbit. left	Based on Mean	.004	1	61	.949
Frontomolare orbit. right	Based on Mean	.045	1	60	.833
Ectoconchion left	Based on Mean	.186	1	61	.667
Ectoconchion right	Based on Mean	.444	1	61	.508
Mid-zygomatic left	Based on Mean	2.364	1	61	.129
Mid-zygomatic right	Based on Mean	1.370	1	61	.246
Zygomaxillare left	Based on Mean	2.953	1	61	.091
Zygomaxillare right	Based on Mean	.761	1	60	.387
Occlusal line left	Based on Mean	2.140	1	48	.150
Occlusal line right	Based on Mean	.989	1	50	.325
Jugale left	Based on Mean	1.753	1	57	.191
Jugale right	Based on Mean	.253	1	60	.617
Zygion left	Based on Mean	.034	1	33	.854
Zygion right	Based on Mean	1.457	1	37	.235
Supraglenoid left	Based on Mean	1.597	1	28	.217
Supraglenoid right	Based on Mean	1.122	1	31	.298
Condylion laterale left	Based on Mean	.001	1	28	.975
Condylion laterale right	Based on Mean	.029	1	29	.865

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$

Table B.33 - Results of homogeneity tests for males and females (55-64 years)

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	.563	1	40	.457
Supraglabella	Based on Mean	.930	1	40	.341
Glabella	Based on Mean	.224	1	40	.639
Nasion	Based on Mean	.004	1	40	.949
Mid-nasal	Based on Mean	.503	1	40	.482
Rhinion	Based on Mean	.043	1	40	.837
Subspinale	Based on Mean	.562	1	38	.458
Mid-philtrum	Based on Mean	2.136	1	36	.153
Prosthion	Based on Mean	2.122	1	26	.157
Alveolare	Based on Mean	.366	1	23	.551
Nasio-labial ridge left	Based on Mean	1.308	1	28	.263
Nasio-labial ridge right	Based on Mean	.128	1	28	.723
Nasomaxillofrontale left	Based on Mean	2.923	1	40	.095
Nasomaxillofrontale right	Based on Mean	.016	1	40	.899
Maxillofrontale left	Based on Mean	2.655	1	40	.111
Maxillofrontale right	Based on Mean	4.660	1	40	*.037
Mid-nasomaxillare left	Based on Mean	.238	1	40	.628
Mid-nasomaxillare right	Based on Mean	.358	1	40	.553
Nasomaxillare left	Based on Mean	3.010	1	40	.090
Nasomaxillare right	Based on Mean	.423	1	40	.519
Alare left	Based on Mean	3.770	1	40	.059
Alare right	Based on Mean	1.760	1	40	.192
Lateral nostril left	Based on Mean	.001	1	40	.982
Lateral nostril right	Based on Mean	.130	1	40	.720
Canine fossa left	Based on Mean	.015	1	36	.903
Canine fossa right	Based on Mean	1.749	1	36	.194
Supracanine left	Based on Mean	2.223	1	27	.148
Supracanine right	Based on Mean	1.960	1	30	.172
Frontal eminence left	Based on Mean	1.472	1	40	.232
Frontal eminence right	Based on Mean	.960	1	40	.333
Lateral frontal left	Based on Mean	.421	1	40	.520
Lateral frontal right	Based on Mean	.382	1	40	.540
Supraorbital left	Based on Mean	.039	1	40	.844
Supraorbital right	Based on Mean	.002	1	40	.968
Orbitale superius left	Based on Mean	1.527	1	40	.224
Orbitale superius right	Based on Mean	.234	1	40	.631
Orbitale left	Based on Mean	1.084	1	40	.304
Orbitale right	Based on Mean	.134	1	40	.716

Table B.33 continued

Suborbital left	Based on Mean	.823	1	40	.370
Suborbital right	Based on Mean	.777	1	40	.383
Submaxillar curvat. left	Based on Mean	.000	1	35	.995
Submaxillar curvat. right	Based on Mean	1.189	1	35	.283
Ectomolare left	Based on Mean	.501	1	18	.488
Ectomolare right	Based on Mean	.004	1	23	.951
Frontotemporale left	Based on Mean	.270	1	40	.606
Frontotemporale right	Based on Mean	1.319	1	40	.258
Frontomolare temp. left	Based on Mean	.107	1	40	.745
Frontomolare temp. right	Based on Mean	.636	1	40	.430
Frontomolare orbit. left	Based on Mean	.394	1	40	.534
Frontomolare orbit. right	Based on Mean	.005	1	40	.945
Ectoconchion left	Based on Mean	.312	1	40	.580
Ectoconchion right	Based on Mean	.059	1	40	.809
Mid-zygomatic left	Based on Mean	.692	1	40	.410
Mid-zygomatic right	Based on Mean	.031	1	40	.861
Zygomaxillare left	Based on Mean	.373	1	40	.545
Zygomaxillare right	Based on Mean	8.677	1	40	** .005
Occlusal line left	Based on Mean	1.572	1	19	.225
Occlusal line right	Based on Mean	4.009	1	20	.059
Jugale left	Based on Mean	.004	1	31	.948
Jugale right	Based on Mean	.461	1	38	.501
Zygion left	Based on Mean	.110	1	21	.744
Zygion right	Based on Mean	.002	1	32	.967
Supraglenoid left	Based on Mean	.392	1	17	.540
Supraglenoid right	Based on Mean	.168	1	24	.685
Condylion laterale left	Based on Mean	2.566	1	19	.126
Condylion laterale right	Based on Mean	.145	1	23	.707

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$

Table B.34 - Results of homogeneity tests for males and females (65-84 years)

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	5.774	1	42	*.021
Supraglabella	Based on Mean	3.186	1	42	.082
Glabella	Based on Mean	.046	1	42	.831
Nasion	Based on Mean	.026	1	42	.873
Mid-nasal	Based on Mean	1.445	1	41	.236
Rhinion	Based on Mean	.413	1	41	.524
Subspinale	Based on Mean	4.961	1	40	*.032
Mid-philtrum	Based on Mean	3.623	1	38	.065
Prosthion	Based on Mean	.119	1	26	.732
Alveolare	Based on Mean	1.333	1	16	.265
Nasio-labial ridge left	Based on Mean	.599	1	29	.445
Nasio-labial ridge right	Based on Mean	3.569	1	29	.069
Nasomaxillofrontale left	Based on Mean	2.286	1	42	.138
Nasomaxillofrontale right	Based on Mean	2.651	1	42	.111
Maxillofrontale left	Based on Mean	.003	1	42	.956
Maxillofrontale right	Based on Mean	.410	1	42	.526
Mid-nasomaxillare left	Based on Mean	.118	1	38	.733
Mid-nasomaxillare right	Based on Mean	.747	1	39	.393
Nasomaxillare left	Based on Mean	3.141	1	40	.084
Nasomaxillare right	Based on Mean	.254	1	41	.617
Alare left	Based on Mean	.686	1	42	.412
Alare right	Based on Mean	.198	1	42	.658
Lateral nostril left	Based on Mean	2.881	1	42	.097
Lateral nostril right	Based on Mean	.314	1	42	.578
Canine fossa left	Based on Mean	.164	1	38	.688
Canine fossa right	Based on Mean	1.828	1	38	.184
Supracanine left	Based on Mean	1.652	1	28	.209
Supracanine right	Based on Mean	.002	1	29	.961
Frontal eminence left	Based on Mean	3.150	1	42	.083
Frontal eminence right	Based on Mean	2.771	1	42	.103
Lateral frontal left	Based on Mean	5.983	1	42	*.019
Lateral frontal right	Based on Mean	.054	1	42	.818
Supraorbital left	Based on Mean	.447	1	42	.508
Supraorbital right	Based on Mean	1.004	1	42	.322
Orbitale superius left	Based on Mean	.026	1	42	.872
Orbitale superius right	Based on Mean	.673	1	42	.417
Orbitale left	Based on Mean	.444	1	42	.509
Orbitale right	Based on Mean	1.129	1	42	.294

Table B.34 continued

Suborbital left	Based on Mean	.711	1	42	.404
Suborbital right	Based on Mean	1.075	1	42	.306
Submaxillar curvat. left	Based on Mean	.796	1	36	.378
Submaxillar curvat. right	Based on Mean	.571	1	38	.455
Ectomolare left	Based on Mean	1.685	1	17	.212
Ectomolare right	Based on Mean	.177	1	15	.680
Frontotemporale left	Based on Mean	.552	1	42	.462
Frontotemporale right	Based on Mean	.608	1	42	.440
Frontomolare temp. left	Based on Mean	.002	1	42	.963
Frontomolare temp. right	Based on Mean	.637	1	42	.429
Frontomolare orbit. left	Based on Mean	.003	1	42	.955
Frontomolare orbit. right	Based on Mean	.158	1	42	.693
Ectoconchion left	Based on Mean	.023	1	42	.880
Ectoconchion right	Based on Mean	.269	1	42	.607
Mid-zygomatic left	Based on Mean	.014	1	42	.906
Mid-zygomatic right	Based on Mean	.752	1	42	.391
Zygomaxillare left	Based on Mean	.307	1	42	.583
Zygomaxillare right	Based on Mean	.094	1	42	.761
Occlusal line left	Based on Mean	.027	1	17	.870
Occlusal line right	Based on Mean	.071	1	24	.793
Jugale left	Based on Mean	.015	1	34	.902
Jugale right	Based on Mean	4.813	1	39	*.034
Zygion left	Based on Mean	.318	1	21	.579
Zygion right	Based on Mean	.161	1	29	.691
Supraglenoid left	Based on Mean	3.169	1	13	.098
Supraglenoid right	Based on Mean	.623	1	21	.439
Condylion laterale left	Based on Mean	2.264	1	11	.161
Condylion laterale right	Based on Mean	.010	1	20	.921

* Statistically significant at level $p < 0.05$

Table B.35 - Results of homogeneity tests for age groups, both sexes

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	2.556	5	314	*.028
Supraglabella	Based on Mean	1.848	5	314	.103
Glabella	Based on Mean	1.767	5	314	.119
Nasion	Based on Mean	.606	5	314	.696
Mid-nasal	Based on Mean	1.676	5	313	.140
Rhinion	Based on Mean	1.774	5	312	.118
Subspinale	Based on Mean	.770	5	309	.572
Mid-philtrum	Based on Mean	3.003	5	304	*.012
Prosthion	Based on Mean	1.831	5	268	.107
Alveolare	Based on Mean	.396	5	241	.851
Nasio-labial ridge left	Based on Mean	2.045	5	280	.073
Nasio-labial ridge right	Based on Mean	.809	5	281	.544
Nasomaxillofrontale left	Based on Mean	.505	5	314	.773
Nasomaxillofrontale right	Based on Mean	.960	5	314	.443
Maxillofrontale left	Based on Mean	2.967	5	314	*.012
Maxillofrontale right	Based on Mean	.768	5	314	.573
Mid-nasomaxillare left	Based on Mean	2.550	5	304	*.028
Mid-nasomaxillare right	Based on Mean	4.947	5	309	***.000
Nasomaxillare left	Based on Mean	2.811	5	312	*.017
Nasomaxillare right	Based on Mean	7.522	5	312	***.000
Alare left	Based on Mean	1.410	5	314	.220
Alare right	Based on Mean	2.131	5	314	.062
Lateral nostril left	Based on Mean	4.224	5	314	**0.001
Lateral nostril right	Based on Mean	.336	5	314	.891
Canine fossa left	Based on Mean	1.729	5	304	.128
Canine fossa right	Based on Mean	3.284	5	306	**0.007
Supracanine left	Based on Mean	2.580	5	274	*.027
Supracanine right	Based on Mean	2.314	5	280	*.044
Frontal eminence left	Based on Mean	2.963	5	312	*.012
Frontal eminence right	Based on Mean	2.664	5	314	*.022
Lateral frontal left	Based on Mean	1.112	5	313	.354
Lateral frontal right	Based on Mean	.800	5	314	.550
Supraorbital left	Based on Mean	2.910	5	313	*.014
Supraorbital right	Based on Mean	1.817	5	314	.109
Orbitale superius left	Based on Mean	2.828	5	314	*.016
Orbitale superius right	Based on Mean	3.583	5	314	**0.004
Orbitale left	Based on Mean	3.503	5	314	**0.004
Orbitale right	Based on Mean	4.918	5	314	***0.000

Table B.35 continued

Suborbital left	Based on Mean	3.648	5	313	**.003
Suborbital right	Based on Mean	2.462	5	314	*.033
Submaxillar curvature left	Based on Mean	3.982	5	300	**.002
Submaxillar curvature right	Based on Mean	5.017	5	303	***.000
Ectomolare left	Based on Mean	6.013	5	240	***.000
Ectomolare right	Based on Mean	5.706	5	245	***.000
Frontotemporale left	Based on Mean	2.086	5	313	.067
Frontotemporale right	Based on Mean	2.965	5	314	*.012
Frontomalare temporale left	Based on Mean	.897	5	314	.484
Frontomalare temporale right	Based on Mean	2.610	5	314	*.025
Frontomalare orbitale left	Based on Mean	3.127	5	314	**.009
Frontomalare orbitale right	Based on Mean	2.200	5	313	.054
Ectoconchion left	Based on Mean	5.938	5	314	***.000
Ectoconchion right	Based on Mean	2.346	5	314	*.041
Mid-zygomatic left	Based on Mean	.994	5	314	.422
Mid-zygomatic right	Based on Mean	1.822	5	314	.108
Zygomaxillare left	Based on Mean	.806	5	314	.546
Zygomaxillare right	Based on Mean	.909	5	313	.476
Occlusal line left	Based on Mean	4.143	5	238	**.001
Occlusal line right	Based on Mean	2.778	5	249	*.018
Jugale left	Based on Mean	.828	5	285	.530
Jugale right	Based on Mean	1.115	5	303	.352
Zygion left	Based on Mean	1.813	5	199	.112
Zygion right	Based on Mean	2.113	5	236	.065
Supraglenoid left	Based on Mean	2.548	5	175	*.030
Supraglenoid right	Based on Mean	2.236	5	210	.052
Condylion laterale left	Based on Mean	1.045	5	166	.393
Condylion laterale right	Based on Mean	2.995	5	204	*.012

*Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.36 - Results of homogeneity tests for age groups, males

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	2.786	5	154	*.019
Supraglabella	Based on Mean	.841	5	154	.523
Glabella	Based on Mean	.470	5	154	.798
Nasion	Based on Mean	.845	5	154	.520
Mid-nasal	Based on Mean	1.370	5	154	.239
Rhinion	Based on Mean	3.300	5	154	** .007
Subspinale	Based on Mean	3.241	5	154	** .008
Mid-philtrum	Based on Mean	1.211	5	150	.307
Prosthion	Based on Mean	1.288	5	137	.272
Alveolare	Based on Mean	.446	5	128	.815
Nasio-labial ridge left	Based on Mean	1.246	5	141	.291
Nasio-labial ridge right	Based on Mean	.363	5	142	.873
Nasomaxillofrontale left	Based on Mean	.378	5	154	.863
Nasomaxillofrontale right	Based on Mean	1.009	5	154	.415
Maxillofrontale left	Based on Mean	1.883	5	154	.100
Maxillofrontale right	Based on Mean	.440	5	154	.820
Mid-nasomaxillare left	Based on Mean	.757	5	148	.582
Mid-nasomaxillare right	Based on Mean	1.889	5	151	.099
Nasomaxillare left	Based on Mean	.651	5	154	.661
Nasomaxillare right	Based on Mean	1.401	5	154	.227
Alare left	Based on Mean	2.404	5	154	*.039
Alare right	Based on Mean	1.824	5	154	.111
Lateral nostril left	Based on Mean	1.413	5	154	.223
Lateral nostril right	Based on Mean	1.703	5	154	.137
Canine fossa left	Based on Mean	1.307	5	150	.264
Canine fossa right	Based on Mean	4.285	5	150	** .001
Supracanine left	Based on Mean	1.469	5	138	.204
Supracanine right	Based on Mean	1.488	5	139	.198
Frontal eminence left	Based on Mean	.557	5	154	.733
Frontal eminence right	Based on Mean	1.469	5	154	.203
Lateral frontal left	Based on Mean	1.487	5	154	.197
Lateral frontal right	Based on Mean	.198	5	154	.963
Supraorbital left	Based on Mean	1.685	5	154	.141
Supraorbital right	Based on Mean	1.361	5	154	.242
Orbitale superius left	Based on Mean	.574	5	154	.720
Orbitale superius right	Based on Mean	2.014	5	154	.080
Orbitale left	Based on Mean	2.083	5	154	.070
Orbitale right	Based on Mean	1.423	5	154	.219

Table B.36 continued

Suborbital left	Based on Mean	2.612	5	154	*.027
Suborbital right	Based on Mean	1.922	5	154	.094
Submaxillar curvature left	Based on Mean	.949	5	149	.451
Submaxillar curvature right	Based on Mean	.292	5	150	.917
Ectomolare left	Based on Mean	1.477	5	122	.202
Ectomolare right	Based on Mean	1.521	5	119	.188
Frontotemporale left	Based on Mean	1.652	5	154	.149
Frontotemporale right	Based on Mean	1.949	5	154	.089
Frontomalare temporale left	Based on Mean	.294	5	154	.915
Frontomalare temporale right	Based on Mean	2.202	5	154	.057
Frontomalare orbitale left	Based on Mean	1.084	5	154	.372
Frontomalare orbitale right	Based on Mean	.610	5	153	.692
Ectoconchion left	Based on Mean	1.623	5	154	.157
Ectoconchion right	Based on Mean	.437	5	154	.822
Mid-zygomatic left	Based on Mean	1.781	5	154	.120
Mid-zygomatic right	Based on Mean	.662	5	154	.653
Zygomaxillare left	Based on Mean	.768	5	154	.574
Zygomaxillare right	Based on Mean	1.281	5	154	.275
Occlusal line left	Based on Mean	1.418	5	112	.223
Occlusal line right	Based on Mean	.535	5	121	.750
Jugale left	Based on Mean	.144	5	140	.982
Jugale right	Based on Mean	.561	5	151	.730
Zygion left	Based on Mean	.802	5	89	.551
Zygion right	Based on Mean	.673	5	107	.645
Supraglenoid left	Based on Mean	.649	5	74	.663
Supraglenoid right	Based on Mean	.752	5	94	.587
Condylion laterale left	Based on Mean	.865	5	71	.509
Condylion laterale right	Based on Mean	.899	5	90	.486

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$

Table B.37 - Results of homogeneity tests for age groups, females

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	.376	5	154	.865
Supraglabella	Based on Mean	2.484	5	154	*.034
Glabella	Based on Mean	1.403	5	154	.226
Nasion	Based on Mean	1.446	5	154	.211
Mid-nasal	Based on Mean	2.007	5	153	.081
Rhinion	Based on Mean	1.641	5	152	.153
Subspinale	Based on Mean	.832	5	150	.529
Mid-philtrum	Based on Mean	.951	5	148	.450
Prosthion	Based on Mean	1.217	5	125	.305
Alveolare	Based on Mean	1.522	5	107	.189
Nasio-labial ridge left	Based on Mean	.446	5	133	.816
Nasio-labial ridge right	Based on Mean	.396	5	133	.851
Nasomaxillofrontale left	Based on Mean	.392	5	154	.854
Nasomaxillofrontale right	Based on Mean	.970	5	154	.438
Maxillofrontale left	Based on Mean	1.425	5	154	.218
Maxillofrontale right	Based on Mean	.369	5	154	.869
Mid-nasomaxillare left	Based on Mean	1.254	5	151	.287
Mid-nasomaxillare right	Based on Mean	1.180	5	152	.322
Nasomaxillare left	Based on Mean	4.710	5	152	** .001
Nasomaxillare right	Based on Mean	5.133	5	152	*** .000
Alare left	Based on Mean	2.769	5	154	*.020
Alare right	Based on Mean	1.808	5	154	.114
Lateral nostril left	Based on Mean	1.765	5	154	.123
Lateral nostril right	Based on Mean	1.740	5	154	.129
Canine fossa left	Based on Mean	2.455	5	148	*.036
Canine fossa right	Based on Mean	1.720	5	150	.133
Supracanine left	Based on Mean	.129	5	130	.986
Supracanine right	Based on Mean	.107	5	135	.991
Frontal eminence left	Based on Mean	3.142	5	152	*.010
Frontal eminence right	Based on Mean	1.395	5	154	.229
Lateral frontal left	Based on Mean	1.279	5	153	.276
Lateral frontal right	Based on Mean	2.433	5	154	*.037
Supraorbital left	Based on Mean	.898	5	153	.484
Supraorbital right	Based on Mean	.719	5	154	.610
Orbitale superius left	Based on Mean	.776	5	154	.568
Orbitale superius right	Based on Mean	2.208	5	154	.056
Orbitale left	Based on Mean	1.490	5	154	.196
Orbitale right	Based on Mean	2.626	5	154	*.026

Table B.37 continued

Suborbital left	Based on Mean	1.282	5	154	.275
Suborbital right	Based on Mean	1.524	5	154	.186
Submaxillar curvature left	Based on Mean	2.984	5	145	*.014
Submaxillar curvature right	Based on Mean	2.652	5	147	*.025
Ectomolare left	Based on Mean	2.063	5	112	.075
Ectomolare right	Based on Mean	2.007	5	121	.082
Frontotemporale left	Based on Mean	.884	5	153	.493
Frontotemporale right	Based on Mean	1.622	5	154	.157
Frontomolare temporale left	Based on Mean	.826	5	154	.533
Frontomolare temporale right	Based on Mean	1.229	5	154	.298
Frontomolare orbitale left	Based on Mean	1.168	5	154	.327
Frontomolare orbitale right	Based on Mean	1.652	5	154	.150
Ectoconchion left	Based on Mean	2.106	5	154	.068
Ectoconchion right	Based on Mean	1.154	5	154	.334
Mid-zygomatic left	Based on Mean	.857	5	154	.511
Mid-zygomatic right	Based on Mean	1.289	5	154	.271
Zygomaxillare left	Based on Mean	.499	5	154	.777
Zygomaxillare right	Based on Mean	1.409	5	153	.224
Occlusal line left	Based on Mean	1.387	5	120	.234
Occlusal line right	Based on Mean	2.389	5	122	*.042
Jugale left	Based on Mean	1.107	5	139	.360
Jugale right	Based on Mean	1.805	5	146	.115
Zygion left	Based on Mean	.685	5	104	.636
Zygion right	Based on Mean	.145	5	123	.981
Supraglenoid left	Based on Mean	1.832	5	95	.114
Supraglenoid right	Based on Mean	2.399	5	110	*.042
Condylion laterale left	Based on Mean	1.178	5	89	.326
Condylion laterale right	Based on Mean	1.613	5	108	.163

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.38 - Results of homogeneity tests for BMI categories, both sexes

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	5.463	3	316	** .001
Supraglabella	Based on Mean	2.936	3	316	* .034
Glabella	Based on Mean	4.624	3	316	** .004
Nasion	Based on Mean	2.057	3	316	.106
Mid-nasal	Based on Mean	.478	3	311	.698
Rhinion	Based on Mean	.820	3	314	.484
Subspinale	Based on Mean	1.233	3	312	.298
Mid-philtrum	Based on Mean	.232	3	306	.874
Prosthion	Based on Mean	1.575	3	270	.196
Alveolare	Based on Mean	3.764	3	243	* .011
Nasio-labial ridge left	Based on Mean	.296	3	282	.828
Nasio-labial ridge right	Based on Mean	.261	3	283	.853
Nasomaxillofrontale left	Based on Mean	.273	3	316	.845
Nasomaxillofrontale right	Based on Mean	.669	3	316	.572
Maxillofrontale left	Based on Mean	1.384	3	316	.248
Maxillofrontale right	Based on Mean	.138	3	316	.937
Mid-nasomaxillare left	Based on Mean	2.735	3	307	* .044
Mid-nasomaxillare right	Based on Mean	2.729	3	311	* .044
Nasomaxillare left	Based on Mean	1.276	3	314	.283
Nasomaxillare right	Based on Mean	6.296	3	314	*** .000
Alare left	Based on Mean	.373	3	316	.773
Alare right	Based on Mean	.129	3	316	.943
Lateral nostril left	Based on Mean	4.398	3	316	** .005
Lateral nostril right	Based on Mean	3.450	3	316	* .017
Canine fossa left	Based on Mean	2.636	3	307	.050
Canine fossa right	Based on Mean	1.616	3	308	.186
Supracanine left	Based on Mean	1.742	3	275	.159
Supracanine right	Based on Mean	1.402	3	282	.242
Frontal eminence left	Based on Mean	2.889	3	314	* .036
Frontal eminence right	Based on Mean	2.333	3	316	.074
Lateral frontal left	Based on Mean	3.857	3	315	* .010
Lateral frontal right	Based on Mean	2.343	3	316	.073
Supraorbital left	Based on Mean	3.241	3	315	* .022
Supraorbital right	Based on Mean	5.202	3	315	** .002
Orbitale superius left	Based on Mean	.475	3	316	.700
Orbitale superius right	Based on Mean	.814	3	316	.487
Orbitale left	Based on Mean	1.369	3	316	.252
Orbitale right	Based on Mean	3.924	3	316	** .009

Table B.38 continued

Suborbital left	Based on Mean	2.980	3	316	*.032
Suborbital right	Based on Mean	1.885	3	316	.132
Submaxillar curvature left	Based on Mean	1.768	3	302	.153
Submaxillar curvature right	Based on Mean	2.181	3	305	.090
Ectomolare left	Based on Mean	2.209	3	242	.088
Ectomolare right	Based on Mean	2.265	3	248	.081
Frontotemporale left	Based on Mean	10.026	3	315	***.000
Frontotemporale right	Based on Mean	6.770	3	316	***.000
Frontomolare temporale left	Based on Mean	6.471	3	316	***.000
Frontomolare temporale right	Based on Mean	10.461	3	316	***.000
Frontomolare orbitale left	Based on Mean	2.285	3	316	.079
Frontomolare orbitale right	Based on Mean	3.676	3	315	*.013
Ectoconchion left	Based on Mean	4.300	3	316	** .005
Ectoconchion right	Based on Mean	5.054	3	316	** .002
Mid-zygomatic left	Based on Mean	1.910	3	316	.128
Mid-zygomatic right	Based on Mean	.401	3	316	.753
Zygomaxillare left	Based on Mean	.194	3	316	.901
Zygomaxillare right	Based on Mean	.833	3	315	.476
Occlusal line left	Based on Mean	1.318	3	240	.269
Occlusal line right	Based on Mean	2.646	3	251	.050
Jugale left	Based on Mean	.910	3	287	.437
Jugale right	Based on Mean	5.715	3	305	** .001
Zygion left	Based on Mean	2.521	3	201	.059
Zygion right	Based on Mean	.236	3	238	.871
Supraglenoid left	Based on Mean	2.640	3	177	.051
Supraglenoid right	Based on Mean	3.183	3	212	*.025
Condylion laterale left	Based on Mean	4.709	3	168	** .003
Condylion laterale right	Based on Mean	.600	3	206	.616

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.39 - Results of homogeneity tests for BMI categories, males

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	.471	2	155	.625
Supraglabella	Based on Mean	.552	2	155	.577
Glabella	Based on Mean	2.724	2	155	.069
Nasion	Based on Mean	3.389	2	155	*.036
Mid-nasal	Based on Mean	.908	2	153	.405
Rhinion	Based on Mean	1.082	2	155	.342
Subspinale	Based on Mean	.851	2	155	.429
Mid-philtrum	Based on Mean	.531	2	151	.589
Prosthion	Based on Mean	.603	2	138	.549
Alveolare	Based on Mean	5.542	2	129	** .005
Nasio-labial ridge left	Based on Mean	1.044	2	142	.355
Nasio-labial ridge right	Based on Mean	.299	2	143	.742
Nasomaxillofrontale left	Based on Mean	1.707	2	155	.185
Nasomaxillofrontale right	Based on Mean	2.289	2	155	.105
Maxillofrontale left	Based on Mean	.634	2	155	.532
Maxillofrontale right	Based on Mean	.659	2	155	.519
Mid-nasomaxillare left	Based on Mean	1.863	2	149	.159
Mid-nasomaxillare right	Based on Mean	1.552	2	152	.215
Nasomaxillare left	Based on Mean	1.741	2	155	.179
Nasomaxillare right	Based on Mean	4.795	2	155	*.010
Alare left	Based on Mean	.194	2	155	.824
Alare right	Based on Mean	.329	2	155	.720
Lateral nostril left	Based on Mean	4.828	2	155	** .009
Lateral nostril right	Based on Mean	2.576	2	155	.079
Canine fossa left	Based on Mean	3.709	2	151	*.027
Canine fossa right	Based on Mean	2.239	2	151	.110
Supracanine left	Based on Mean	1.118	2	140	.330
Supracanine right	Based on Mean	1.429	2	141	.243
Frontal eminence left	Based on Mean	.778	2	155	.461
Frontal eminence right	Based on Mean	.392	2	155	.677
Lateral frontal left	Based on Mean	.011	2	155	.989
Lateral frontal right	Based on Mean	.702	2	155	.497
Supraorbital left	Based on Mean	1.433	2	155	.242
Supraorbital right	Based on Mean	2.206	2	155	.114
Orbitale superius left	Based on Mean	1.649	2	155	.196
Orbitale superius right	Based on Mean	1.320	2	155	.270
Orbitale left	Based on Mean	.331	2	155	.719
Orbitale right	Based on Mean	1.090	2	155	.339

Table B.39 continued

Suborbital left	Based on Mean	1.125	2	155	.327
Suborbital right	Based on Mean	.212	2	155	.809
Submaxillar curvature left	Based on Mean	.026	2	150	.974
Submaxillar curvature right	Based on Mean	.537	2	151	.586
Ectomolare left	Based on Mean	2.227	2	124	.112
Ectomolare right	Based on Mean	2.500	2	121	.086
Frontotemporale left	Based on Mean	1.299	2	155	.276
Frontotemporale right	Based on Mean	3.603	2	155	*.030
Frontomolare temporale left	Based on Mean	1.012	2	155	.366
Frontomolare temporale right	Based on Mean	4.577	2	155	*.012
Frontomolare orbitale left	Based on Mean	.673	2	155	.512
Frontomolare orbitale right	Based on Mean	.371	2	154	.690
Ectoconchion left	Based on Mean	2.927	2	155	.057
Ectoconchion right	Based on Mean	2.932	2	155	.056
Mid-zygomatic left	Based on Mean	2.838	2	155	.062
Mid-zygomatic right	Based on Mean	.540	2	155	.584
Zygomaxillare left	Based on Mean	.018	2	155	.982
Zygomaxillare right	Based on Mean	.542	2	155	.583
Occlusal line left	Based on Mean	.062	2	113	.940
Occlusal line right	Based on Mean	.260	2	122	.771
Jugale left	Based on Mean	1.706	2	141	.185
Jugale right	Based on Mean	1.595	2	152	.206
Zygion left	Based on Mean	1.248	2	90	.292
Zygion right	Based on Mean	.423	2	108	.656
Supraglenoid left	Based on Mean	.412	2	75	.664
Supraglenoid right	Based on Mean	.434	2	95	.649
Condylion laterale left	Based on Mean	2.107	2	72	.129
Condylion laterale right	Based on Mean	.100	2	91	.905

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$

Table B.40 - Results of homogeneity tests for BMI categories, females

		Levene Statistic	df1	df2	Sig.
Metopion	Based on Mean	9.344	3	156	***.000
Supraglabella	Based on Mean	3.574	3	156	*.015
Glabella	Based on Mean	3.176	3	156	*.026
Nasion	Based on Mean	1.387	3	156	.249
Mid-nasal	Based on Mean	.838	3	153	.475
Rhinion	Based on Mean	.672	3	154	.571
Subspinale	Based on Mean	3.212	3	152	*.025
Mid-philtrum	Based on Mean	1.253	3	150	.293
Nasio-labial ridge left	Based on Mean	1.811	3	135	.148
Nasio-labial ridge right	Based on Mean	10.311	3	135	***.000
Nasomaxillofrontale left	Based on Mean	1.278	3	156	.284
Nasomaxillofrontale right	Based on Mean	.859	3	156	.464
Maxillofrontale left	Based on Mean	1.748	3	156	.159
Maxillofrontale right	Based on Mean	.128	3	156	.943
Mid-nasomaxillare left	Based on Mean	2.434	3	153	.067
Mid-nasomaxillare right	Based on Mean	3.431	3	154	*.019
Nasomaxillare left	Based on Mean	.905	3	154	.440
Nasomaxillare right	Based on Mean	4.597	3	154	** .004
Alare left	Based on Mean	4.675	3	156	** .004
Alare right	Based on Mean	.238	3	156	.870
Lateral nostril left	Based on Mean	1.975	3	156	.120
Lateral nostril right	Based on Mean	1.131	3	156	.338
Canine fossa left	Based on Mean	.823	3	151	.483
Canine fossa right	Based on Mean	2.665	3	152	.050
Supracanine left	Based on Mean	.372	3	131	.773
Supracanine right	Based on Mean	.177	3	137	.912
Frontal eminence left	Based on Mean	4.130	3	154	** .008
Frontal eminence right	Based on Mean	3.187	3	156	*.025
Lateral frontal left	Based on Mean	5.681	3	155	** .001
Lateral frontal right	Based on Mean	2.708	3	156	*.047
Supraorbital left	Based on Mean	1.897	3	155	.132
Supraorbital right	Based on Mean	3.660	3	155	*.014
Orbitale superius left	Based on Mean	1.482	3	156	.221
Orbitale superius right	Based on Mean	.990	3	156	.399
Orbitale left	Based on Mean	1.797	3	156	.150
Orbitale right	Based on Mean	3.349	3	156	*.021
Suborbital left	Based on Mean	2.888	3	156	*.037
Suborbital right	Based on Mean	4.007	3	156	** .009

Table B.40 continued

Submaxillar curvature left	Based on Mean	2.983	3	147	*.033
Submaxillar curvature right	Based on Mean	1.989	3	149	.118
Ectomolare right	Based on Mean	.282	3	123	.838
Frontotemporale left	Based on Mean	15.352	3	155	***.000
Frontotemporale right	Based on Mean	6.277	3	156	***.000
Frontomolare temporale left	Based on Mean	11.367	3	156	***.000
Frontomolare temporale right	Based on Mean	10.534	3	156	***.000
Frontomolare orbitale left	Based on Mean	2.643	3	156	.051
Frontomolare orbitale right	Based on Mean	7.166	3	156	***.000
Ectoconchion left	Based on Mean	6.841	3	156	***.000
Ectoconchion right	Based on Mean	3.819	3	156	*.011
Mid-zygomatic left	Based on Mean	2.196	3	156	.091
Mid-zygomatic right	Based on Mean	1.778	3	156	.154
Zygomaxillare left	Based on Mean	.384	3	156	.765
Zygomaxillare right	Based on Mean	.562	3	155	.641
Occlusal line right	Based on Mean	3.910	3	124	*.010
Jugale left	Based on Mean	1.334	3	141	.266
Jugale right	Based on Mean	6.143	3	148	** .001
Zygion left	Based on Mean	2.388	3	106	.073
Zygion right	Based on Mean	.452	3	125	.717
Supraglenoid left	Based on Mean	3.313	3	97	*.023
Supraglenoid right	Based on Mean	2.458	3	112	.067
Condylion laterale left	Based on Mean	2.517	3	91	.063
Condylion laterale right	Based on Mean	1.328	3	110	.269

* Statistically significant at level $p < 0.05$

** Statistically significant at level $p < 0.01$

*** Statistically significant at level $p < 0.001$

Table B.41 - Skewness and kurtosis of facial soft tissue thicknesses in both sexes

Landmark		Both sexes (<i>n</i> = 320)		
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.474	Approx. symmetric	-0.251	Platykurtic
Sg	0.354	Approx. symmetric	-0.503	Platykurtic
G	0.392	Approx. symmetric	-0.258	Platykurtic
N	0.388	Approx. symmetric	-0.243	Platykurtic
Mn	0.315	Approx. symmetric	-0.302	Platykurtic
Rhi	0.433	Approx. symmetric	-0.425	Platykurtic
Ss	0.214	Approx. symmetric	-0.159	Platykurtic
Mp	0.310	Approx. symmetric	-0.470	Platykurtic
Pr	0.441	Approx. symmetric	-0.276	Platykurtic
Ids	0.214	Approx. symmetric	-0.211	Platykurtic
Bilateral				
Nlr L	0.301	Approx. symmetric	-0.424	Platykurtic
Nlr R	0.422	Approx. symmetric	-0.220	Platykurtic
Nmf L	0.557	Moderately skewed	0.209	Leptokurtic
Nmf R	0.418	Approx. symmetric	-0.324	Platykurtic
Mf L	0.488	Approx. symmetric	-0.253	Platykurtic
Mf R	0.432	Approx. symmetric	-0.364	Platykurtic
Mnm L	0.570	Moderately skewed	-0.086	Platykurtic
Mnm R	0.343	Approx. symmetric	-0.331	Platykurtic
Nm L	0.152	Approx. symmetric	-0.246	Platykurtic
Nm R	0.337	Approx. symmetric	-0.158	Platykurtic
Al L	0.273	Approx. symmetric	-0.246	Platykurtic
Al R	0.272	Approx. symmetric	-0.271	Platykurtic
Lno L	0.408	Approx. symmetric	-0.262	Platykurtic
Lno R	0.283	Approx. symmetric	-0.492	Platykurtic
Cf L	0.321	Approx. symmetric	-0.434	Platykurtic
Cf R	0.434	Approx. symmetric	-0.055	Platykurtic
Sc L	0.426	Approx. symmetric	-0.404	Platykurtic
Sc R	0.375	Approx. symmetric	-0.248	Platykurtic
Fe L	0.461	Approx. symmetric	-0.128	Platykurtic
Fe R	0.461	Approx. symmetric	-0.117	Platykurtic
Lf L	0.353	Approx. symmetric	-0.400	Platykurtic
Lf R	0.427	Approx. symmetric	-0.287	Platykurtic
So L	0.331	Approx. symmetric	-0.339	Platykurtic
So R	0.323	Approx. symmetric	-0.278	Platykurtic
Os L	0.132	Approx. symmetric	-0.319	Platykurtic
Os R	0.159	Approx. symmetric	-0.277	Platykurtic
Or L	0.459	Approx. symmetric	-0.345	Platykurtic
Or R	0.403	Approx. symmetric	-0.424	Platykurtic

Table B.41 continued

Landmark		Both sexes (<i>n</i> = 320)		
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
Sor L	0.543	Approx. symmetric	-0.159	Platykurtic
Sor R	0.395	Approx. symmetric	-0.459	Platykurtic
Smc L	0.340	Approx. symmetric	-0.337	Platykurtic
Smc R	0.327	Approx. symmetric	-0.336	Platykurtic
Ecm L	0.298	Approx. symmetric	-0.276	Platykurtic
Ecm R	0.231	Approx. symmetric	-0.521	Platykurtic
Ft L	0.531	Approx. symmetric	-0.294	Platykurtic
Ft R	0.486	Approx. symmetric	-0.006	Mesokurtic
Fmt L	0.418	Approx. symmetric	0.117	Leptokurtic
Fmt R	0.605	Moderately skewed	0.263	Leptokurtic
Fmo L	0.315	Approx. symmetric	-0.517	Platykurtic
Fmo R	0.279	Approx. symmetric	-0.400	Platykurtic
Ec L	0.648	Moderately skewed	-0.193	Platykurtic
Ec R	0.420	Approx. symmetric	-0.321	Platykurtic
Mz L	0.216	Approx. symmetric	-0.215	Platykurtic
Mz R	0.102	Approx. symmetric	-0.327	Platykurtic
Zm L	0.305	Approx. symmetric	-0.335	Platykurtic
Zm R	0.178	Approx. symmetric	-0.332	Platykurtic
OI L	0.348	Approx. symmetric	-0.241	Platykurtic
OI R	0.294	Approx. symmetric	-0.469	Platykurtic
Ju L	0.186	Approx. symmetric	-0.552	Platykurtic
Ju R	0.324	Approx. symmetric	-0.359	Platykurtic
Zy L	0.421	Approx. symmetric	-0.484	Platykurtic
Zy R	0.383	Approx. symmetric	-0.453	Platykurtic
Sgl L	0.345	Approx. symmetric	-0.533	Platykurtic
Sgl R	0.027	Approx. symmetric	-0.241	Platykurtic
Cdl L	0.330	Approx. symmetric	-0.416	Platykurtic
Cdl R	0.241	Approx. symmetric	-0.239	Platykurtic

* According to Bulmer (1979)

Table B.42a - Skewness and kurtosis of facial soft tissue thicknesses in both sexes within age groups (<24 years and 25-34 years)

Landmark		Both sexes <24 years (<i>n</i> = 46)			Both sexes 25-34 years (<i>n</i> = 56)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.150	Approx. symmetric	-0.552	Platykurtic	0.395	Approx. symmetric	-0.104	Platykurtic
Sg	0.587	Moderately skewed	-0.133	Platykurtic	0.526	Approx. symmetric	-0.379	Platykurtic
G	0.477	Approx. symmetric	-0.454	Platykurtic	0.111	Approx. symmetric	0.139	Leptokurtic
N	0.013	Approx. symmetric	-0.770	Platykurtic	0.343	Approx. symmetric	0.007	Mesokurtic
Mn	-0.169	Approx. symmetric	-0.577	Platykurtic	0.215	Approx. symmetric	-0.515	Platykurtic
Rhi	0.613	Moderately skewed	0.543	Leptokurtic	0.057	Approx. symmetric	-0.619	Platykurtic
Ss	0.154	Approx. symmetric	-0.032	Mesokurtic	0.475	Approx. symmetric	-0.161	Platykurtic
Mp	-0.103	Approx. symmetric	0.044	Mesokurtic	0.459	Approx. symmetric	-0.478	Platykurtic
Pr	0.304	Approx. symmetric	-0.351	Platykurtic	0.728	Moderately skewed	-0.593	Platykurtic
Ids	-0.135	Approx. symmetric	-0.093	Platykurtic	0.394	Approx. symmetric	-0.329	Platykurtic
Bilateral								
Nlr L	-0.141	Approx. symmetric	-0.397	Platykurtic	0.431	Approx. symmetric	-0.747	Platykurtic
Nlr R	0.054	Approx. symmetric	-0.417	Platykurtic	0.517	Approx. symmetric	-0.210	Platykurtic
Nmf L	0.326	Approx. symmetric	-0.719	Platykurtic	0.556	Moderately skewed	0.039	Mesokurtic
Nmf R	0.423	Approx. symmetric	-0.579	Platykurtic	0.440	Approx. symmetric	-0.373	Platykurtic
Mf L	0.208	Approx. symmetric	-1.289	Platykurtic	0.290	Approx. symmetric	-0.172	Platykurtic
Mf R	0.074	Approx. symmetric	-0.873	Platykurtic	0.495	Approx. symmetric	-0.008	Mesokurtic
Mnm L	0.154	Approx. symmetric	-0.282	Platykurtic	0.390	Approx. symmetric	-0.519	Platykurtic
Mnm R	0.761	Moderately skewed	-0.153	Platykurtic	0.343	Approx. symmetric	-0.253	Platykurtic
Nm L	0.454	Approx. symmetric	-0.719	Platykurtic	0.294	Approx. symmetric	0.060	Leptokurtic
Nm R	0.334	Approx. symmetric	-0.582	Platykurtic	0.196	Approx. symmetric	0.094	Leptokurtic
Al L	-0.041	Approx. symmetric	-1.013	Platykurtic	0.563	Moderately skewed	-0.049	Mesokurtic
Al R	-0.172	Approx. symmetric	-0.860	Platykurtic	0.178	Approx. symmetric	-0.278	Platykurtic

Table B.42a continued

Landmark		Both sexes <24 years (<i>n</i> = 46)			Both sexes 25-34 years (<i>n</i> = 56)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.162	Approx. symmetric	-0.870	Platykurtic	0.247	Approx. symmetric	-0.112	Platykurtic
Lno R	-0.114	Approx. symmetric	-0.097	Platykurtic	0.564	Moderately skewed	-0.422	Platykurtic
Cf L	-0.214	Approx. symmetric	-0.305	Platykurtic	0.449	Approx. symmetric	-0.314	Platykurtic
Cf R	0.003	Approx. symmetric	-0.331	Platykurtic	0.556	Moderately skewed	-0.198	Platykurtic
Sc L	0.123	Approx. symmetric	-0.141	Platykurtic	0.347	Approx. symmetric	-0.513	Platykurtic
Sc R	-0.310	Approx. symmetric	-0.195	Platykurtic	0.395	Approx. symmetric	-0.424	Platykurtic
Fe L	0.413	Approx. symmetric	-0.771	Platykurtic	0.395	Approx. symmetric	-0.508	Platykurtic
Fe R	0.753	Moderately skewed	0.268	Leptokurtic	0.118	Approx. symmetric	-0.472	Platykurtic
Lf L	0.290	Approx. symmetric	-0.648	Platykurtic	0.212	Approx. symmetric	-0.714	Platykurtic
Lf R	0.380	Approx. symmetric	-0.406	Platykurtic	0.478	Approx. symmetric	-0.472	Platykurtic
So L	0.229	Approx. symmetric	-0.732	Platykurtic	0.671	Moderately skewed	0.680	Leptokurtic
So R	0.015	Approx. symmetric	0.055	Leptokurtic	0.603	Moderately skewed	-0.430	Platykurtic
Os L	0.047	Approx. symmetric	-0.727	Platykurtic	-0.016	Approx. symmetric	-0.370	Platykurtic
Os R	0.476	Approx. symmetric	-0.283	Platykurtic	-0.267	Approx. symmetric	-0.234	Platykurtic
Or L	-0.327	Approx. symmetric	-0.201	Platykurtic	0.523	Approx. symmetric	-0.451	Platykurtic
Or R	-0.085	Approx. symmetric	-0.210	Platykurtic	0.211	Approx. symmetric	-0.620	Platykurtic
Sor L	-0.174	Approx. symmetric	-0.019	Mesokurtic	0.303	Approx. symmetric	-0.750	Platykurtic
Sor R	0.110	Approx. symmetric	-0.433	Platykurtic	0.573	Moderately skewed	-0.444	Platykurtic
Smc L	-0.201	Approx. symmetric	-0.615	Platykurtic	0.301	Approx. symmetric	-0.605	Platykurtic
Smc R	0.082	Approx. symmetric	-0.581	Platykurtic	-0.177	Approx. symmetric	-0.431	Platykurtic
Ecm L	-0.211	Approx. symmetric	-0.558	Platykurtic	0.497	Approx. symmetric	0.060	Leptokurtic
Ecm R	-0.213	Approx. symmetric	-0.572	Platykurtic	0.116	Approx. symmetric	-0.592	Platykurtic

Table B.42a continued

Landmark		Both sexes <24 years (<i>n</i> = 46)			Both sexes 25-34 years (<i>n</i> = 56)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.453	Approx. symmetric	-0.656	Platykurtic	0.661	Moderately skewed	-0.398	Platykurtic
Ft R	0.489	Approx. symmetric	-0.497	Platykurtic	0.699	Moderately skewed	-0.130	Platykurtic
Fmt L	0.349	Approx. symmetric	-0.399	Platykurtic	0.289	Approx. symmetric	-0.055	Platykurtic
Fmt R	0.133	Approx. symmetric	-0.214	Platykurtic	0.764	Moderately skewed	-0.040	Mesokurtic
Fmo L	0.577	Moderately skewed	-0.322	Platykurtic	-0.035	Approx. symmetric	-0.237	Platykurtic
Fmo R	0.414	Approx. symmetric	-0.437	Platykurtic	0.187	Approx. symmetric	-0.529	Platykurtic
Ec L	0.366	Approx. symmetric	-0.642	Platykurtic	0.699	Moderately skewed	0.113	Leptokurtic
Ec R	0.142	Approx. symmetric	-0.694	Platykurtic	0.453	Approx. symmetric	-0.330	Platykurtic
Mz L	0.217	Approx. symmetric	-0.529	Platykurtic	-0.105	Approx. symmetric	-0.221	Platykurtic
Mz R	0.154	Approx. symmetric	-0.311	Platykurtic	-0.137	Approx. symmetric	-0.033	Mesokurtic
Zm L	-0.033	Approx. symmetric	-0.289	Platykurtic	0.003	Approx. symmetric	-0.453	Platykurtic
Zm R	0.004	Approx. symmetric	0.009	Mesokurtic	0.141	Approx. symmetric	-0.126	Platykurtic
Ol L	0.270	Approx. symmetric	-0.478	Platykurtic	0.006	Approx. symmetric	-0.465	Platykurtic
Ol R	0.416	Approx. symmetric	-0.303	Platykurtic	0.274	Approx. symmetric	-0.693	Platykurtic
Ju L	0.637	Moderately skewed	-0.027	Mesokurtic	0.595	Moderately skewed	0.149	Leptokurtic
Ju R	0.594	Moderately skewed	-0.268	Platykurtic	-0.022	Approx. symmetric	-0.537	Platykurtic
Zy L	0.493	Approx. symmetric	-0.548	Platykurtic	0.550	Moderately skewed	-0.135	Platykurtic
Zy R	0.717	Moderately skewed	-0.149	Platykurtic	0.183	Approx. symmetric	-0.651	Platykurtic
Sgl L	0.358	Approx. symmetric	-0.585	Platykurtic	0.768	Moderately skewed	0.024	Mesokurtic
Sgl R	-0.029	Approx. symmetric	-0.141	Platykurtic	-0.051	Approx. symmetric	0.321	Leptokurtic
Cdl L	-0.046	Approx. symmetric	-1.043	Platykurtic	0.646	Moderately skewed	-0.044	Mesokurtic
Cdl R	0.263	Approx. symmetric	-0.363	Platykurtic	0.042	Approx. symmetric	-0.277	Platykurtic

* According to Bulmer (1979)

Table B.42b - Skewness and kurtosis of facial soft tissue thicknesses in both sexes within age groups (35-44 years and 45-54 years)

Landmark		Both sexes 35-44 years (<i>n</i> = 69)			Both sexes 45-54 years (<i>n</i> = 63)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.187	Approx. symmetric	-0.190	Platykurtic	0.523	Approx. symmetric	-0.695	Platykurtic
Sg	0.173	Approx. symmetric	-0.363	Platykurtic	0.217	Approx. symmetric	-1.001	Platykurtic
G	0.216	Approx. symmetric	-0.232	Platykurtic	0.285	Approx. symmetric	-0.780	Platykurtic
N	0.409	Approx. symmetric	-0.181	Platykurtic	0.517	Approx. symmetric	-0.301	Platykurtic
Mn	0.640	Moderately skewed	-0.325	Platykurtic	0.325	Approx. symmetric	-0.674	Platykurtic
Rhi	0.609	Moderately skewed	-0.436	Platykurtic	0.498	Approx. symmetric	0.388	Leptokurtic
Ss	-0.267	Approx. symmetric	-0.049	Mesokurtic	0.499	Approx. symmetric	-0.514	Platykurtic
Mp	-0.002	Approx. symmetric	-1.109	Platykurtic	0.466	Approx. symmetric	-0.644	Platykurtic
Pr	0.268	Approx. symmetric	-0.522	Platykurtic	0.548	Approx. symmetric	-0.241	Platykurtic
Ids	0.289	Approx. symmetric	-0.316	Platykurtic	0.258	Approx. symmetric	-0.287	Platykurtic
Bilateral								
Nlr L	-0.027	Approx. symmetric	-0.402	Platykurtic	0.503	Approx. symmetric	-0.534	Platykurtic
Nlr R	0.494	Approx. symmetric	-0.084	Platykurtic	0.543	Approx. symmetric	-0.393	Platykurtic
Nmf L	0.250	Approx. symmetric	-0.413	Platykurtic	0.384	Approx. symmetric	-0.173	Platykurtic
Nmf R	0.172	Approx. symmetric	-0.666	Platykurtic	0.482	Approx. symmetric	-0.314	Platykurtic
Mf L	0.543	Approx. symmetric	-0.432	Platykurtic	0.465	Approx. symmetric	-0.233	Platykurtic
Mf R	0.266	Approx. symmetric	-0.593	Platykurtic	0.561	Moderately skewed	-0.298	Platykurtic
Mnm L	0.134	Approx. symmetric	-0.362	Platykurtic	0.641	Moderately skewed	-0.570	Platykurtic
Mnm R	0.011	Approx. symmetric	-0.331	Platykurtic	0.218	Approx. symmetric	-0.378	Platykurtic
Nm L	0.523	Approx. symmetric	-0.330	Platykurtic	0.269	Approx. symmetric	-0.147	Platykurtic
Nm R	0.459	Approx. symmetric	-0.172	Platykurtic	0.127	Approx. symmetric	-0.042	Mesokurtic
Al L	-0.025	Approx. symmetric	-0.226	Platykurtic	0.613	Moderately skewed	-0.230	Platykurtic
Al R	0.365	Approx. symmetric	-0.100	Platykurtic	0.534	Approx. symmetric	-0.266	Platykurtic

Table B.42b continued

Landmark		Both sexes 35-44 years (<i>n</i> = 69)			Both sexes 45-54 years (<i>n</i> = 63)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.110	Approx. symmetric	-1.119	Platykurtic	0.758	Moderately skewed	0.091	Leptokurtic
Lno R	0.038	Approx. symmetric	-0.649	Platykurtic	0.418	Approx. symmetric	-0.349	Platykurtic
Cf L	0.103	Approx. symmetric	-0.496	Platykurtic	0.562	Moderately skewed	-0.741	Platykurtic
Cf R	0.354	Approx. symmetric	0.002	Mesokurtic	0.509	Approx. symmetric	-0.683	Platykurtic
Sc L	0.499	Approx. symmetric	-0.480	Platykurtic	0.743	Moderately skewed	-0.061	Platykurtic
Sc R	0.623	Moderately skewed	0.085	Leptokurtic	0.637	Moderately skewed	-0.326	Platykurtic
Fe L	0.210	Approx. symmetric	-0.400	Platykurtic	-0.065	Approx. symmetric	-0.426	Platykurtic
Fe R	0.401	Approx. symmetric	-0.341	Platykurtic	0.092	Approx. symmetric	-0.311	Platykurtic
Lf L	0.207	Approx. symmetric	-0.559	Platykurtic	0.403	Approx. symmetric	-0.254	Platykurtic
Lf R	0.405	Approx. symmetric	-0.208	Platykurtic	0.367	Approx. symmetric	-0.197	Platykurtic
So L	0.270	Approx. symmetric	-0.535	Platykurtic	-0.150	Approx. symmetric	-0.314	Platykurtic
So R	0.357	Approx. symmetric	-0.401	Platykurtic	-0.073	Approx. symmetric	-0.373	Platykurtic
Os L	-0.214	Approx. symmetric	-0.470	Platykurtic	0.165	Approx. symmetric	-0.643	Platykurtic
Os R	0.113	Approx. symmetric	-0.602	Platykurtic	0.052	Approx. symmetric	-0.020	Mesokurtic
Or L	0.343	Approx. symmetric	-0.688	Platykurtic	0.563	Moderately skewed	-0.459	Platykurtic
Or R	0.406	Approx. symmetric	-0.767	Platykurtic	0.370	Approx. symmetric	-0.546	Platykurtic
Sor L	0.460	Approx. symmetric	-0.563	Platykurtic	0.427	Approx. symmetric	-0.326	Platykurtic
Sor R	0.353	Approx. symmetric	-0.555	Platykurtic	0.399	Approx. symmetric	-0.275	Platykurtic
Smc L	0.186	Approx. symmetric	-1.053	Platykurtic	0.683	Moderately skewed	0.154	Leptokurtic
Smc R	0.113	Approx. symmetric	-0.698	Platykurtic	0.264	Approx. symmetric	-0.224	Platykurtic
Ecm L	-0.180	Approx. symmetric	-0.545	Platykurtic	0.477	Approx. symmetric	-0.832	Platykurtic
Ecm R	-0.074	Approx. symmetric	-1.175	Platykurtic	0.091	Approx. symmetric	-0.815	Platykurtic

Table B.42b continued

Landmark		Both sexes 35-44 years (<i>n</i> = 69)			Both sexes 45-54 years (<i>n</i> = 63)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.561	Moderately skewed	-0.436	Platykurtic	0.340	Approx. symmetric	-0.311	Platykurtic
Ft R	0.223	Approx. symmetric	-0.625	Platykurtic	-0.058	Approx. symmetric	-0.324	Platykurtic
Fmt L	0.318	Approx. symmetric	-0.234	Platykurtic	0.373	Approx. symmetric	-0.603	Platykurtic
Fmt R	0.481	Approx. symmetric	-0.298	Platykurtic	0.042	Approx. symmetric	-0.366	Platykurtic
Fmo L	0.305	Approx. symmetric	-0.677	Platykurtic	-0.059	Approx. symmetric	-0.803	Platykurtic
Fmo R	0.299	Approx. symmetric	-0.169	Platykurtic	-0.124	Approx. symmetric	-0.663	Platykurtic
Ec L	0.344	Approx. symmetric	-0.667	Platykurtic	0.213	Approx. symmetric	-0.640	Platykurtic
Ec R	0.441	Approx. symmetric	-0.352	Platykurtic	0.339	Approx. symmetric	-0.570	Platykurtic
Mz L	0.206	Approx. symmetric	-0.425	Platykurtic	0.149	Approx. symmetric	-0.485	Platykurtic
Mz R	0.113	Approx. symmetric	-0.948	Platykurtic	0.269	Approx. symmetric	-0.402	Platykurtic
Zm L	0.433	Approx. symmetric	-0.272	Platykurtic	0.304	Approx. symmetric	-0.441	Platykurtic
Zm R	0.249	Approx. symmetric	-0.622	Platykurtic	0.169	Approx. symmetric	-0.573	Platykurtic
Ol L	0.077	Approx. symmetric	-1.099	Platykurtic	0.350	Approx. symmetric	-0.069	Platykurtic
Ol R	-0.007	Approx. symmetric	-0.996	Platykurtic	0.236	Approx. symmetric	-0.208	Platykurtic
Ju L	-0.107	Approx. symmetric	-0.676	Platykurtic	0.225	Approx. symmetric	-0.704	Platykurtic
Ju R	0.019	Approx. symmetric	-0.612	Platykurtic	0.382	Approx. symmetric	-0.041	Mesokurtic
Zy L	0.056	Approx. symmetric	-1.024	Platykurtic	0.409	Approx. symmetric	0.624	Leptokurtic
Zy R	0.113	Approx. symmetric	-0.935	Platykurtic	0.337	Approx. symmetric	-0.223	Platykurtic
Sgl L	0.160	Approx. symmetric	-0.993	Platykurtic	0.561	Moderately skewed	-0.124	Platykurtic
Sgl R	0.171	Approx. symmetric	-1.014	Platykurtic	-0.611	Moderately skewed	0.781	Leptokurtic
Cdl L	0.421	Approx. symmetric	-0.410	Platykurtic	0.418	Approx. symmetric	-0.419	Platykurtic
Cdl R	0.237	Approx. symmetric	-0.712	Platykurtic	0.044	Approx. symmetric	-0.664	Platykurtic

* According to Bulmer (1979)

Table B.42c - Skewness and kurtosis of facial soft tissue thicknesses in both sexes within age groups (55-64 years and 65-84 years)

Landmark		Both sexes 55-64 years (<i>n</i> = 42)			Both sexes 65-84 years (<i>n</i> = 44)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.391	Approx. symmetric	-0.639	Platykurtic	0.051	Approx. symmetric	-0.244	Platykurtic
Sg	0.186	Approx. symmetric	-0.781	Platykurtic	0.441	Approx. symmetric	-0.298	Platykurtic
G	0.336	Approx. symmetric	-0.409	Platykurtic	0.132	Approx. symmetric	-0.384	Platykurtic
N	0.245	Approx. symmetric	0.047	Mesokurtic	0.274	Approx. symmetric	-0.603	Platykurtic
Mn	0.112	Approx. symmetric	-0.383	Platykurtic	-0.148	Approx. symmetric	0.030	Mesokurtic
Rhi	0.067	Approx. symmetric	-0.730	Platykurtic	-0.140	Approx. symmetric	-0.670	Platykurtic
Ss	0.273	Approx. symmetric	-0.036	Mesokurtic	0.148	Approx. symmetric	-0.127	Platykurtic
Mp	0.553	Moderately skewed	0.428	Leptokurtic	0.368	Approx. symmetric	-0.431	Platykurtic
Pr	0.296	Approx. symmetric	0.376	Leptokurtic	-0.009	Approx. symmetric	-0.498	Platykurtic
Ids	0.014	Approx. symmetric	0.178	Leptokurtic	0.095	Approx. symmetric	-0.834	Platykurtic
Bilateral								
Nlr L	0.463	Approx. symmetric	0.189	Leptokurtic	0.161	Approx. symmetric	-1.139	Platykurtic
Nlr R	0.012	Approx. symmetric	0.167	Leptokurtic	0.333	Approx. symmetric	-0.974	Platykurtic
Nmf L	-0.136	Approx. symmetric	-0.778	Platykurtic	0.513	Approx. symmetric	0.172	Leptokurtic
Nmf R	0.348	Approx. symmetric	-0.054	Platykurtic	0.467	Approx. symmetric	-0.289	Platykurtic
Mf L	0.626	Moderately skewed	0.573	Leptokurtic	-0.060	Approx. symmetric	-0.297	Platykurtic
Mf R	1.051	Highly skewed	0.818	Leptokurtic	0.235	Approx. symmetric	-0.206	Platykurtic
Mnm L	0.619	Moderately skewed	-0.058	Platykurtic	0.532	Approx. symmetric	-0.723	Platykurtic
Mnm R	0.086	Approx. symmetric	-1.248	Platykurtic	-0.324	Approx. symmetric	-0.778	Platykurtic
Nm L	-0.263	Approx. symmetric	-0.560	Platykurtic	-0.320	Approx. symmetric	-0.953	Platykurtic
Nm R	0.013	Approx. symmetric	-1.256	Platykurtic	-0.036	Approx. symmetric	-0.822	Platykurtic
Al L	0.000	Approx. symmetric	-0.181	Platykurtic	-0.075	Approx. symmetric	-0.687	Platykurtic
Al R	-0.131	Approx. symmetric	-0.728	Platykurtic	0.150	Approx. symmetric	-0.633	Platykurtic

Table B.42c continued

Landmark		Both sexes 55-64 years (<i>n</i> = 42)			Both sexes 65-84 years (<i>n</i> = 44)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.714	Moderately skewed	-0.162	Platykurtic	0.258	Approx. symmetric	-0.720	Platykurtic
Lno R	0.227	Approx. symmetric	-0.838	Platykurtic	0.395	Approx. symmetric	-0.518	Platykurtic
Cf L	0.438	Approx. symmetric	-0.265	Platykurtic	0.178	Approx. symmetric	-0.801	Platykurtic
Cf R	0.129	Approx. symmetric	-0.238	Platykurtic	-0.065	Approx. symmetric	-0.982	Platykurtic
Sc L	0.812	Moderately skewed	0.316	Leptokurtic	0.542	Approx. symmetric	-0.318	Platykurtic
Sc R	0.601	Moderately skewed	0.421	Leptokurtic	0.082	Approx. symmetric	-0.637	Platykurtic
Fe L	0.238	Approx. symmetric	-0.744	Platykurtic	0.484	Approx. symmetric	-0.339	Platykurtic
Fe R	0.115	Approx. symmetric	-0.160	Platykurtic	0.444	Approx. symmetric	-0.763	Platykurtic
Lf L	0.160	Approx. symmetric	-0.272	Platykurtic	0.232	Approx. symmetric	-0.892	Platykurtic
Lf R	0.239	Approx. symmetric	-0.482	Platykurtic	0.107	Approx. symmetric	-0.578	Platykurtic
So L	0.260	Approx. symmetric	-0.572	Platykurtic	0.115	Approx. symmetric	-0.612	Platykurtic
So R	0.681	Moderately skewed	0.211	Leptokurtic	-0.086	Approx. symmetric	-0.317	Platykurtic
Os L	0.185	Approx. symmetric	0.224	Leptokurtic	0.476	Approx. symmetric	-0.283	Platykurtic
Os R	-0.017	Approx. symmetric	-0.867	Platykurtic	0.182	Approx. symmetric	-0.388	Platykurtic
Or L	0.466	Approx. symmetric	-0.796	Platykurtic	-0.193	Approx. symmetric	0.055	Leptokurtic
Or R	0.346	Approx. symmetric	-0.266	Platykurtic	-0.205	Approx. symmetric	-0.651	Platykurtic
Sor L	0.501	Approx. symmetric	-0.404	Platykurtic	0.285	Approx. symmetric	-0.623	Platykurtic
Sor R	0.203	Approx. symmetric	-0.815	Platykurtic	0.156	Approx. symmetric	-0.787	Platykurtic
Smc L	-0.272	Approx. symmetric	-0.744	Platykurtic	-0.070	Approx. symmetric	-0.516	Platykurtic
Smc R	-0.127	Approx. symmetric	-1.023	Platykurtic	0.164	Approx. symmetric	-0.636	Platykurtic
Ecm L	-0.135	Approx. symmetric	-0.873	Platykurtic	-0.077	Approx. symmetric	-0.434	Platykurtic
Ecm R	-0.397	Approx. symmetric	-0.335	Platykurtic	-0.198	Approx. symmetric	-0.787	Platykurtic

Table B.42c continued

Landmark		Both sexes 55-64 years (<i>n</i> = 42)			Both sexes 65-84 years (<i>n</i> = 44)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.454	Approx. symmetric	-0.353	Platykurtic	0.283	Approx. symmetric	-0.651	Platykurtic
Ft R	0.279	Approx. symmetric	-0.500	Platykurtic	-0.041	Approx. symmetric	-0.801	Platykurtic
Fmt L	-0.012	Approx. symmetric	-0.215	Platykurtic	0.000	Approx. symmetric	-0.454	Platykurtic
Fmt R	0.680	Moderately skewed	0.120	Leptokurtic	0.059	Approx. symmetric	-0.659	Platykurtic
Fmo L	0.131	Approx. symmetric	-1.120	Platykurtic	0.329	Approx. symmetric	-0.941	Platykurtic
Fmo R	-0.045	Approx. symmetric	-0.355	Platykurtic	0.402	Approx. symmetric	-0.919	Platykurtic
Ec L	0.432	Approx. symmetric	-0.674	Platykurtic	0.166	Approx. symmetric	-1.076	Platykurtic
Ec R	0.248	Approx. symmetric	-0.624	Platykurtic	0.142	Approx. symmetric	-0.597	Platykurtic
Mz L	-0.103	Approx. symmetric	-0.623	Platykurtic	-0.094	Approx. symmetric	-0.082	Platykurtic
Mz R	0.063	Approx. symmetric	-0.449	Platykurtic	-0.075	Approx. symmetric	-0.495	Platykurtic
Zm L	-0.017	Approx. symmetric	-1.022	Platykurtic	0.544	Approx. symmetric	-0.127	Platykurtic
Zm R	0.176	Approx. symmetric	-0.412	Platykurtic	0.566	Moderately skewed	-0.438	Platykurtic
Ol L	-0.794	Moderately skewed	-0.039	Mesokurtic	-0.108	Approx. symmetric	0.096	Leptokurtic
Ol R	-0.520	Approx. symmetric	-0.922	Platykurtic	0.257	Approx. symmetric	-0.099	Platykurtic
Ju L	0.088	Approx. symmetric	-0.358	Platykurtic	-0.015	Approx. symmetric	-0.323	Platykurtic
Ju R	0.352	Approx. symmetric	-0.542	Platykurtic	0.174	Approx. symmetric	-0.070	Platykurtic
Zy L	0.469	Approx. symmetric	-0.607	Platykurtic	0.158	Approx. symmetric	-0.535	Platykurtic
Zy R	0.259	Approx. symmetric	-0.618	Platykurtic	0.303	Approx. symmetric	0.049	Mesokurtic
Sgl L	0.315	Approx. symmetric	-0.404	Platykurtic	0.602	Moderately skewed	-0.897	Platykurtic
Sgl R	-0.298	Approx. symmetric	-1.096	Platykurtic	0.620	Moderately skewed	0.025	Mesokurtic
Cdl L	0.128	Approx. symmetric	-0.518	Platykurtic	0.598	Moderately skewed	-0.202	Platykurtic
Cdl R	-0.066	Approx. symmetric	0.255	Leptokurtic	0.055	Approx. symmetric	-0.017	Mesokurtic

* According to Bulmer (1979)

Table B.43a - Skewness and kurtosis of facial soft tissue thicknesses in males (<24 years and 25-34 years)

Landmark		Males <24 years (<i>n</i> = 28)			Males 25-34 years (<i>n</i> = 27)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.142	Approx. symmetric	-0.266	Platykurtic	0.316	Approx. symmetric	-0.734	Platykurtic
Sg	0.498	Approx. symmetric	-0.348	Platykurtic	0.204	Approx. symmetric	-1.211	Platykurtic
G	0.591	Moderately skewed	-0.939	Platykurtic	0.524	Approx. symmetric	-0.883	Platykurtic
N	-0.292	Approx. symmetric	-0.570	Platykurtic	0.070	Approx. symmetric	-0.256	Platykurtic
Mn	-0.203	Approx. symmetric	-0.312	Platykurtic	-0.190	Approx. symmetric	-0.099	Platykurtic
Rhi	0.551	Moderately skewed	0.648	Leptokurtic	0.017	Approx. symmetric	-0.724	Platykurtic
Ss	0.411	Approx. symmetric	-0.321	Platykurtic	0.080	Approx. symmetric	-0.126	Platykurtic
Mp	0.348	Approx. symmetric	-0.367	Platykurtic	0.080	Approx. symmetric	-0.741	Platykurtic
Pr	0.424	Approx. symmetric	-0.796	Platykurtic	0.098	Approx. symmetric	-1.282	Platykurtic
Ids	-0.110	Approx. symmetric	0.017	Mesokurtic	0.155	Approx. symmetric	-0.660	Platykurtic
Bilateral								
Nlr L	0.038	Approx. symmetric	-0.706	Platykurtic	-0.052	Approx. symmetric	-0.789	Platykurtic
Nlr R	0.013	Approx. symmetric	0.134	Leptokurtic	0.537	Approx. symmetric	0.358	Leptokurtic
Nmf L	0.310	Approx. symmetric	-1.145	Platykurtic	0.424	Approx. symmetric	-0.011	Mesokurtic
Nmf R	0.190	Approx. symmetric	-0.933	Platykurtic	0.305	Approx. symmetric	-0.674	Platykurtic
Mf L	-0.080	Approx. symmetric	-1.392	Platykurtic	0.851	Moderately skewed	-0.024	Mesokurtic
Mf R	-0.246	Approx. symmetric	-0.665	Platykurtic	0.712	Moderately skewed	-0.304	Platykurtic
Mnm L	-0.201	Approx. symmetric	-0.459	Platykurtic	0.246	Approx. symmetric	-0.507	Platykurtic
Mnm R	0.561	Moderately skewed	-0.044	Mesokurtic	0.206	Approx. symmetric	0.246	Leptokurtic
Nm L	0.116	Approx. symmetric	-1.076	Platykurtic	0.586	Moderately skewed	-0.415	Platykurtic
Nm R	-0.039	Approx. symmetric	-0.604	Platykurtic	0.598	Moderately skewed	-0.306	Platykurtic
Al L	0.007	Approx. symmetric	-0.862	Platykurtic	0.569	Moderately skewed	-0.665	Platykurtic
Al R	-0.079	Approx. symmetric	-0.590	Platykurtic	0.072	Approx. symmetric	-0.208	Platykurtic

Table B.43a continued

Landmark		Males <24 years (<i>n</i> = 28)			Males 25-34 years (<i>n</i> = 27)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.032	Approx. symmetric	-0.666	Platykurtic	0.245	Approx. symmetric	-0.416	Platykurtic
Lno R	0.372	Approx. symmetric	-0.731	Platykurtic	0.052	Approx. symmetric	-0.829	Platykurtic
Cf L	-0.295	Approx. symmetric	0.237	Leptokurtic	0.101	Approx. symmetric	-0.888	Platykurtic
Cf R	-0.033	Approx. symmetric	-0.200	Platykurtic	0.077	Approx. symmetric	-0.494	Platykurtic
Sc L	0.288	Approx. symmetric	0.443	Leptokurtic	0.128	Approx. symmetric	-1.001	Platykurtic
Sc R	-0.112	Approx. symmetric	-0.770	Platykurtic	0.169	Approx. symmetric	-0.979	Platykurtic
Fe L	0.328	Approx. symmetric	-0.804	Platykurtic	0.186	Approx. symmetric	-0.879	Platykurtic
Fe R	0.726	Moderately skewed	0.082	Leptokurtic	0.244	Approx. symmetric	-0.713	Platykurtic
Lf L	0.539	Approx. symmetric	-0.900	Platykurtic	0.370	Approx. symmetric	-1.064	Platykurtic
Lf R	0.580	Moderately skewed	-0.544	Platykurtic	0.194	Approx. symmetric	-1.244	Platykurtic
So L	0.224	Approx. symmetric	-0.506	Platykurtic	0.734	Moderately skewed	-0.144	Platykurtic
So R	0.262	Approx. symmetric	-0.216	Platykurtic	0.334	Approx. symmetric	-1.081	Platykurtic
Os L	0.028	Approx. symmetric	-1.003	Platykurtic	0.295	Approx. symmetric	-0.652	Platykurtic
Os R	0.007	Approx. symmetric	-0.265	Platykurtic	0.041	Approx. symmetric	-0.309	Platykurtic
Or L	-0.004	Approx. symmetric	-0.199	Platykurtic	0.840	Moderately skewed	-0.019	Mesokurtic
Or R	-0.541	Approx. symmetric	-0.744	Platykurtic	0.169	Approx. symmetric	-0.932	Platykurtic
Sor L	0.544	Approx. symmetric	0.431	Leptokurtic	0.473	Approx. symmetric	-0.909	Platykurtic
Sor R	0.160	Approx. symmetric	-0.806	Platykurtic	0.526	Approx. symmetric	-0.719	Platykurtic
Smc L	-0.299	Approx. symmetric	-0.523	Platykurtic	0.103	Approx. symmetric	-0.927	Platykurtic
Smc R	0.155	Approx. symmetric	-0.981	Platykurtic	0.001	Approx. symmetric	-0.642	Platykurtic
Ecm L	-0.153	Approx. symmetric	-0.735	Platykurtic	0.610	Moderately skewed	-0.341	Platykurtic
Ecm R	0.013	Approx. symmetric	-1.039	Platykurtic	-0.182	Approx. symmetric	-0.481	Platykurtic

Table B.43a continued

Landmark		Males <24 years (<i>n</i> = 28)			Males 25-34 years (<i>n</i> = 27)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.796	Moderately skewed	-0.037	Mesokurtic	0.317	Approx. symmetric	-1.055	Platykurtic
Ft R	0.587	Moderately skewed	-0.488	Platykurtic	0.204	Approx. symmetric	-0.843	Platykurtic
Fmt L	-0.012	Approx. symmetric	-0.578	Platykurtic	0.055	Approx. symmetric	-0.070	Platykurtic
Fmt R	-0.257	Approx. symmetric	0.048	Mesokurtic	0.354	Approx. symmetric	-0.986	Platykurtic
Fmo L	0.118	Approx. symmetric	-0.789	Platykurtic	0.238	Approx. symmetric	0.294	Leptokurtic
Fmo R	-0.011	Approx. symmetric	-0.640	Platykurtic	0.545	Approx. symmetric	-0.109	Platykurtic
Ec L	0.599	Moderately skewed	-0.494	Platykurtic	0.286	Approx. symmetric	-0.613	Platykurtic
Ec R	0.381	Approx. symmetric	-0.654	Platykurtic	0.224	Approx. symmetric	-0.330	Platykurtic
Mz L	0.259	Approx. symmetric	-0.671	Platykurtic	0.651	Moderately skewed	0.978	Leptokurtic
Mz R	-0.258	Approx. symmetric	-0.805	Platykurtic	0.407	Approx. symmetric	1.124	Leptokurtic
Zm L	-0.105	Approx. symmetric	-0.821	Platykurtic	-0.033	Approx. symmetric	-0.906	Platykurtic
Zm R	-0.215	Approx. symmetric	-0.569	Platykurtic	0.465	Approx. symmetric	0.291	Leptokurtic
Ol L	0.054	Approx. symmetric	-0.395	Platykurtic	-0.192	Approx. symmetric	-0.894	Platykurtic
Ol R	0.254	Approx. symmetric	-0.460	Platykurtic	-0.187	Approx. symmetric	-0.667	Platykurtic
Ju L	0.842	Moderately skewed	0.076	Leptokurtic	1.206	Highly skewed	1.236	Leptokurtic
Ju R	0.861	Moderately skewed	0.108	Leptokurtic	0.065	Approx. symmetric	-0.650	Platykurtic
Zy L	0.381	Approx. symmetric	-1.085	Platykurtic	0.145	Approx. symmetric	-0.636	Platykurtic
Zy R	0.807	Moderately skewed	-0.058	Platykurtic	0.039	Approx. symmetric	-0.193	Platykurtic
Sgl L	0.300	Approx. symmetric	-0.424	Platykurtic	0.454	Approx. symmetric	-0.136	Platykurtic
Sgl R	-0.145	Approx. symmetric	-1.230	Platykurtic	0.133	Approx. symmetric	-0.857	Platykurtic
Cdl L	-0.302	Approx. symmetric	-0.678	Platykurtic	0.323	Approx. symmetric	-0.255	Platykurtic
Cdl R	0.147	Approx. symmetric	-0.352	Platykurtic	-0.803	Moderately skewed	0.829	Leptokurtic

* According to Bulmer (1979)

Table B.43b - Skewness and kurtosis of facial soft tissue thicknesses in males (35-44 years and 45-54 years)

Landmark		Males 35-44 years (<i>n</i> = 33)			Males 45-54 years (<i>n</i> = 32)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.238	Approx. symmetric	0.722	Leptokurtic	0.026	Approx. symmetric	-0.957	Platykurtic
Sg	-0.070	Approx. symmetric	0.459	Leptokurtic	-0.198	Approx. symmetric	-1.054	Platykurtic
G	-0.018	Approx. symmetric	0.715	Leptokurtic	0.176	Approx. symmetric	-0.755	Platykurtic
N	0.100	Approx. symmetric	-0.818	Platykurtic	0.186	Approx. symmetric	-0.799	Platykurtic
Mn	0.347	Approx. symmetric	-0.656	Platykurtic	-0.311	Approx. symmetric	-0.835	Platykurtic
Rhi	0.244	Approx. symmetric	-0.435	Platykurtic	0.127	Approx. symmetric	-1.239	Platykurtic
Ss	0.469	Approx. symmetric	1.819	Leptokurtic	0.122	Approx. symmetric	-0.826	Platykurtic
Mp	-0.218	Approx. symmetric	-0.657	Platykurtic	-0.212	Approx. symmetric	0.063	Leptokurtic
Pr	0.322	Approx. symmetric	-0.433	Platykurtic	0.007	Approx. symmetric	-0.574	Platykurtic
Ids	0.004	Approx. symmetric	-0.147	Platykurtic	0.244	Approx. symmetric	0.752	Leptokurtic
Bilateral								
Nlr L	0.108	Approx. symmetric	-0.121	Platykurtic	-0.044	Approx. symmetric	-0.218	Platykurtic
Nlr R	0.604	Moderately skewed	-0.008	Mesokurtic	-0.101	Approx. symmetric	-0.009	Mesokurtic
Nmf L	0.058	Approx. symmetric	-0.337	Platykurtic	0.198	Approx. symmetric	-0.232	Platykurtic
Nmf R	-0.320	Approx. symmetric	-0.270	Platykurtic	0.470	Approx. symmetric	-0.946	Platykurtic
Mf L	0.288	Approx. symmetric	-0.663	Platykurtic	0.415	Approx. symmetric	-0.579	Platykurtic
Mf R	-0.097	Approx. symmetric	-0.950	Platykurtic	0.217	Approx. symmetric	-0.707	Platykurtic
Mnm L	0.483	Approx. symmetric	-0.327	Platykurtic	0.544	Approx. symmetric	-0.702	Platykurtic
Mnm R	0.333	Approx. symmetric	-0.696	Platykurtic	0.269	Approx. symmetric	-0.361	Platykurtic
Nm L	0.417	Approx. symmetric	-0.002	Mesokurtic	0.378	Approx. symmetric	-0.475	Platykurtic
Nm R	0.235	Approx. symmetric	-0.383	Platykurtic	0.400	Approx. symmetric	-0.593	Platykurtic
Al L	-0.237	Approx. symmetric	-0.168	Platykurtic	0.021	Approx. symmetric	-0.880	Platykurtic
Al R	0.623	Moderately skewed	-0.203	Platykurtic	0.035	Approx. symmetric	-0.605	Platykurtic

Table B.43b continued

Landmark		Males 35-44 years (<i>n</i> = 33)			Males 45-54 years (<i>n</i> = 32)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	-0.402	Approx. symmetric	-0.707	Platykurtic	0.394	Approx. symmetric	-0.835	Platykurtic
Lno R	-0.419	Approx. symmetric	-0.078	Platykurtic	-0.059	Approx. symmetric	-1.022	Platykurtic
Cf L	-0.003	Approx. symmetric	1.066	Leptokurtic	0.358	Approx. symmetric	-0.965	Platykurtic
Cf R	0.212	Approx. symmetric	0.709	Leptokurtic	0.063	Approx. symmetric	-0.997	Platykurtic
Sc L	0.292	Approx. symmetric	-0.211	Platykurtic	0.084	Approx. symmetric	-0.294	Platykurtic
Sc R	0.637	Moderately skewed	0.654	Leptokurtic	0.102	Approx. symmetric	-0.269	Platykurtic
Fe L	0.267	Approx. symmetric	-0.163	Platykurtic	-0.450	Approx. symmetric	0.209	Leptokurtic
Fe R	0.235	Approx. symmetric	-0.572	Platykurtic	0.021	Approx. symmetric	-0.559	Platykurtic
Lf L	-0.097	Approx. symmetric	-0.555	Platykurtic	0.236	Approx. symmetric	-0.548	Platykurtic
Lf R	0.017	Approx. symmetric	-0.528	Platykurtic	0.069	Approx. symmetric	-0.149	Platykurtic
So L	0.093	Approx. symmetric	0.000	Mesokurtic	-0.129	Approx. symmetric	0.370	Leptokurtic
So R	-0.167	Approx. symmetric	-0.053	Platykurtic	-0.324	Approx. symmetric	-0.110	Platykurtic
Os L	-0.538	Approx. symmetric	0.132	Leptokurtic	0.074	Approx. symmetric	-0.543	Platykurtic
Os R	-0.231	Approx. symmetric	-0.587	Platykurtic	0.655	Moderately skewed	0.342	Leptokurtic
Or L	0.297	Approx. symmetric	-0.595	Platykurtic	0.433	Approx. symmetric	-0.539	Platykurtic
Or R	0.580	Moderately skewed	-0.318	Platykurtic	0.147	Approx. symmetric	-0.746	Platykurtic
Sor L	0.332	Approx. symmetric	-0.631	Platykurtic	0.411	Approx. symmetric	-0.522	Platykurtic
Sor R	0.464	Approx. symmetric	-0.189	Platykurtic	0.115	Approx. symmetric	-0.688	Platykurtic
Smc L	-0.097	Approx. symmetric	-1.285	Platykurtic	0.182	Approx. symmetric	-0.514	Platykurtic
Smc R	-0.148	Approx. symmetric	-0.697	Platykurtic	-0.225	Approx. symmetric	-0.379	Platykurtic
Ecm L	-0.363	Approx. symmetric	-0.598	Platykurtic	0.005	Approx. symmetric	-1.092	Platykurtic
Ecm R	-0.494	Approx. symmetric	-0.515	Platykurtic	-0.665	Moderately skewed	-0.558	Platykurtic

Table B.43b continued

Landmark		Males 35-44 years (<i>n</i> = 33)			Males 45-54 years (<i>n</i> = 32)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.325	Approx. symmetric	-0.614	Platykurtic	0.487	Approx. symmetric	0.235	Leptokurtic
Ft R	0.151	Approx. symmetric	-0.103	Platykurtic	0.051	Approx. symmetric	-0.483	Platykurtic
Fmt L	0.227	Approx. symmetric	-0.841	Platykurtic	-0.193	Approx. symmetric	-0.464	Platykurtic
Fmt R	0.536	Approx. symmetric	-0.823	Platykurtic	0.142	Approx. symmetric	0.044	Mesokurtic
Fmo L	-0.011	Approx. symmetric	-0.395	Platykurtic	-0.175	Approx. symmetric	-0.712	Platykurtic
Fmo R	0.067	Approx. symmetric	-0.397	Platykurtic	-0.251	Approx. symmetric	-0.366	Platykurtic
Ec L	0.272	Approx. symmetric	-0.607	Platykurtic	0.286	Approx. symmetric	-0.770	Platykurtic
Ec R	0.485	Approx. symmetric	-0.564	Platykurtic	0.189	Approx. symmetric	-0.702	Platykurtic
Mz L	0.484	Approx. symmetric	-0.243	Platykurtic	0.308	Approx. symmetric	-0.687	Platykurtic
Mz R	0.364	Approx. symmetric	-0.699	Platykurtic	0.315	Approx. symmetric	-0.523	Platykurtic
Zm L	0.465	Approx. symmetric	-0.643	Platykurtic	0.088	Approx. symmetric	-0.772	Platykurtic
Zm R	0.242	Approx. symmetric	-0.877	Platykurtic	-0.067	Approx. symmetric	-0.653	Platykurtic
Ol L	-0.245	Approx. symmetric	-0.967	Platykurtic	0.034	Approx. symmetric	-1.058	Platykurtic
Ol R	-0.193	Approx. symmetric	-0.358	Platykurtic	-0.062	Approx. symmetric	-0.466	Platykurtic
Ju L	-0.298	Approx. symmetric	-0.807	Platykurtic	0.020	Approx. symmetric	-1.007	Platykurtic
Ju R	-0.146	Approx. symmetric	-0.501	Platykurtic	0.390	Approx. symmetric	0.113	Leptokurtic
Zy L	-0.241	Approx. symmetric	-0.915	Platykurtic	0.647	Moderately skewed	0.198	Leptokurtic
Zy R	-0.314	Approx. symmetric	-0.631	Platykurtic	-0.128	Approx. symmetric	0.278	Leptokurtic
Sgl L	-0.195	Approx. symmetric	-0.871	Platykurtic	0.356	Approx. symmetric	-0.621	Platykurtic
Sgl R	-0.173	Approx. symmetric	-0.697	Platykurtic	-0.629	Moderately skewed	1.525	Leptokurtic
Cdl L	0.255	Approx. symmetric	0.071	Leptokurtic	0.129	Approx. symmetric	0.409	Leptokurtic
Cdl R	0.215	Approx. symmetric	-1.161	Platykurtic	-0.035	Approx. symmetric	-1.207	Platykurtic

* According to Bulmer (1979)

Table B.43c - Skewness and kurtosis of facial soft tissue thicknesses in males (55-64 years and 65-84 years)

Landmark		Males 55-64 years (<i>n</i> = 18)			Males 65-84 years (<i>n</i> = 22)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.265	Approx. symmetric	-1.023	Platykurtic	-0.146	Approx. symmetric	-0.860	Playtikurtic
Sg	-0.006	Approx. symmetric	-1.422	Platykurtic	0.391	Approx. symmetric	-1.009	Playtikurtic
G	0.015	Approx. symmetric	-0.479	Platykurtic	-0.177	Approx. symmetric	-0.298	Playtikurtic
N	0.105	Approx. symmetric	-0.088	Platykurtic	0.350	Approx. symmetric	-0.648	Playtikurtic
Mn	-0.318	Approx. symmetric	0.265	Leptokurtic	0.682	Moderately skewed	0.099	Leptokurtic
Rhi	0.255	Approx. symmetric	-0.821	Platykurtic	0.054	Approx. symmetric	-1.234	Playtikurtic
Ss	0.330	Approx. symmetric	-0.654	Platykurtic	0.098	Approx. symmetric	-0.691	Playtikurtic
Mp	-0.009	Approx. symmetric	0.163	Leptokurtic	0.326	Approx. symmetric	-1.460	Playtikurtic
Pr	0.096	Approx. symmetric	-0.527	Platykurtic	-0.229	Approx. symmetric	-0.267	Playtikurtic
Ids	-0.055	Approx. symmetric	0.445	Leptokurtic	0.113	Approx. symmetric	-1.472	Playtikurtic
Bilateral								
Nlr L	0.599	Moderately skewed	-0.678	Platykurtic	-0.149	Approx. symmetric	-1.093	Playtikurtic
Nlr R	0.388	Approx. symmetric	-0.927	Platykurtic	-0.124	Approx. symmetric	-1.046	Playtikurtic
Nmf L	-0.121	Approx. symmetric	-0.518	Platykurtic	0.582	Moderately skewed	-0.778	Playtikurtic
Nmf R	0.734	Moderately skewed	-0.167	Platykurtic	0.396	Approx. symmetric	-1.082	Playtikurtic
Mf L	0.362	Approx. symmetric	-0.188	Platykurtic	0.197	Approx. symmetric	-0.391	Playtikurtic
Mf R	0.794	Moderately skewed	-0.605	Platykurtic	0.420	Approx. symmetric	-0.059	Playtikurtic
Mnm L	0.795	Moderately skewed	-0.001	Mesokurtic	0.621	Moderately skewed	-0.861	Playtikurtic
Mnm R	-0.327	Approx. symmetric	-1.205	Platykurtic	-0.443	Approx. symmetric	-0.023	Mesokurtic
Nm L	-0.135	Approx. symmetric	-1.169	Platykurtic	-0.133	Approx. symmetric	-0.961	Playtikurtic
Nm R	-0.411	Approx. symmetric	-0.887	Platykurtic	0.069	Approx. symmetric	-0.329	Playtikurtic
Al L	0.462	Approx. symmetric	-0.485	Platykurtic	-0.120	Approx. symmetric	-0.816	Playtikurtic
Al R	-0.010	Approx. symmetric	-0.205	Platykurtic	-0.191	Approx. symmetric	-0.851	Playtikurtic

Table B.43c continued

Landmark		Males 55-64 years (<i>n</i> = 18)			Males 65-84 years (<i>n</i> = 22)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.552	Moderately skewed	-0.599	Platykurtic	-0.130	Approx. symmetric	-1.297	Playtikurtic
Lno R	0.254	Approx. symmetric	-0.966	Platykurtic	0.371	Approx. symmetric	-0.876	Playtikurtic
Cf L	0.522	Approx. symmetric	0.118	Leptokurtic	-0.133	Approx. symmetric	-0.667	Playtikurtic
Cf R	0.116	Approx. symmetric	-0.661	Platykurtic	-0.263	Approx. symmetric	-0.036	Mesokurtic
Sc L	0.071	Approx. symmetric	0.337	Leptokurtic	0.449	Approx. symmetric	-1.078	Playtikurtic
Sc R	-0.186	Approx. symmetric	0.549	Leptokurtic	-0.275	Approx. symmetric	0.088	Leptokurtic
Fe L	0.367	Approx. symmetric	-0.378	Platykurtic	0.054	Approx. symmetric	-0.905	Playtikurtic
Fe R	0.360	Approx. symmetric	-0.399	Platykurtic	-0.059	Approx. symmetric	-1.082	Playtikurtic
Lf L	0.578	Moderately skewed	-0.138	Platykurtic	-0.149	Approx. symmetric	-1.146	Playtikurtic
Lf R	0.395	Approx. symmetric	-0.718	Platykurtic	-0.071	Approx. symmetric	-0.335	Playtikurtic
So L	0.416	Approx. symmetric	-0.320	Platykurtic	-0.032	Approx. symmetric	-0.494	Playtikurtic
So R	0.852	Moderately skewed	0.507	Leptokurtic	0.056	Approx. symmetric	-0.317	Playtikurtic
Os L	-1.179	Highly skewed	1.902	Leptokurtic	0.332	Approx. symmetric	0.217	Leptokurtic
Os R	-0.514	Approx. symmetric	0.129	Leptokurtic	0.041	Approx. symmetric	-0.468	Playtikurtic
Or L	0.430	Approx. symmetric	-1.147	Platykurtic	-0.426	Approx. symmetric	0.083	Leptokurtic
Or R	0.325	Approx. symmetric	-1.269	Platykurtic	-0.293	Approx. symmetric	-0.741	Playtikurtic
Sor L	0.511	Approx. symmetric	-1.116	Platykurtic	0.220	Approx. symmetric	-0.800	Playtikurtic
Sor R	-0.062	Approx. symmetric	-1.441	Platykurtic	-0.041	Approx. symmetric	-0.958	Playtikurtic
Smc L	-0.099	Approx. symmetric	-0.798	Platykurtic	-0.317	Approx. symmetric	0.422	Leptokurtic
Smc R	-0.580	Moderately skewed	-0.182	Platykurtic	0.018	Approx. symmetric	-0.234	Playtikurtic
Ecm L	-0.835	Moderately skewed	0.220	Leptokurtic	-0.388	Approx. symmetric	-0.388	Playtikurtic
Ecm R	-0.573	Moderately skewed	-1.261	Platykurtic	-0.198	Approx. symmetric	-0.867	Playtikurtic

Table B.43c continued

Landmark		Males 55-64 years (<i>n</i> = 18)			Males 65-84 years (<i>n</i> = 22)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.358	Approx. symmetric	-0.919	Platykurtic	0.079	Approx. symmetric	-0.638	Playtikurtic
Ft R	0.189	Approx. symmetric	-1.386	Platykurtic	-0.195	Approx. symmetric	-1.167	Playtikurtic
Fmt L	0.345	Approx. symmetric	-0.511	Platykurtic	-0.270	Approx. symmetric	-0.044	Mesokurtic
Fmt R	0.832	Moderately skewed	-0.373	Platykurtic	-0.013	Approx. symmetric	-0.946	Playtikurtic
Fmo L	-0.148	Approx. symmetric	-1.060	Platykurtic	-0.072	Approx. symmetric	-1.244	Playtikurtic
Fmo R	-0.271	Approx. symmetric	-0.337	Platykurtic	0.289	Approx. symmetric	-1.028	Playtikurtic
Ec L	-0.181	Approx. symmetric	-0.605	Platykurtic	0.146	Approx. symmetric	-1.106	Playtikurtic
Ec R	0.232	Approx. symmetric	-0.602	Platykurtic	0.468	Approx. symmetric	-1.141	Playtikurtic
Mz L	0.028	Approx. symmetric	-1.559	Platykurtic	-0.004	Approx. symmetric	0.210	Leptokurtic
Mz R	-0.016	Approx. symmetric	-1.270	Platykurtic	0.035	Approx. symmetric	-0.920	Playtikurtic
Zm L	0.357	Approx. symmetric	-1.217	Platykurtic	0.744	Moderately skewed	0.211	Leptokurtic
Zm R	-0.809	Moderately skewed	0.096	Leptokurtic	0.921	Moderately skewed	0.536	Leptokurtic
Ol L	-0.594	Moderately skewed	-0.540	Platykurtic	0.190	Approx. symmetric	-1.062	Playtikurtic
Ol R	-0.744	Moderately skewed	-0.261	Platykurtic	0.772	Moderately skewed	-0.053	Playtikurtic
Ju L	-0.251	Approx. symmetric	-0.227	Platykurtic	0.344	Approx. symmetric	0.335	Leptokurtic
Ju R	0.387	Approx. symmetric	0.411	Leptokurtic	0.239	Approx. symmetric	-0.580	Playtikurtic
Zy L	0.249	Approx. symmetric	-0.679	Platykurtic	0.244	Approx. symmetric	-0.275	Playtikurtic
Zy R	0.062	Approx. symmetric	-0.034	Mesokurtic	-0.352	Approx. symmetric	-0.673	Playtikurtic
Sgl L	0.418	Approx. symmetric	1.982	Leptokurtic	0.016	Approx. symmetric	-1.530	Playtikurtic
Sgl R	-0.851	Moderately skewed	-0.120	Platykurtic	0.395	Approx. symmetric	-0.627	Playtikurtic
Cdl L	1.473	Highly skewed	2.462	Leptokurtic	0.784	Moderately skewed	1.406	Leptokurtic
Cdl R	0.869	Moderately skewed	-0.448	Platykurtic	-0.235	Approx. symmetric	-0.165	Playtikurtic

* According to Bulmer (1979)

Table B.44a - Skewness and kurtosis of facial soft tissue thicknesses in females (<24 years and 25-34 years)

Landmark		Females <24 years (<i>n</i> = 18)			Females 25-34 years (<i>n</i> = 29)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.507	Approx. symmetric	-0.434	Playtikurtic	-0.059	Approx. symmetric	-0.309	Playtikurtic
Sg	0.944	Moderately skewed	1.250	Leptokurtic	0.410	Approx. symmetric	0.461	Leptokurtic
G	0.213	Approx. symmetric	-0.275	Playtikurtic	-0.495	Approx. symmetric	0.562	Leptokurtic
N	-0.060	Approx. symmetric	-1.070	Playtikurtic	-0.257	Approx. symmetric	-0.408	Playtikurtic
Mn	0.085	Approx. symmetric	-0.722	Playtikurtic	0.240	Approx. symmetric	-0.749	Playtikurtic
Rhi	0.413	Approx. symmetric	-0.557	Playtikurtic	0.635	Moderately skewed	0.357	Leptokurtic
Ss	-0.083	Approx. symmetric	-0.149	Playtikurtic	0.323	Approx. symmetric	0.418	Leptokurtic
Mp	-0.094	Approx. symmetric	-0.243	Playtikurtic	0.003	Approx. symmetric	-0.011	Mesokurtic
Pr	0.612	Moderately skewed	0.540	Leptokurtic	1.669	Highly skewed	4.168	Leptokurtic
Ids	-0.386	Approx. symmetric	-0.655	Playtikurtic	-0.069	Approx. symmetric	-1.228	Playtikurtic
Bilateral								
Nlr L	-0.065	Approx. symmetric	0.112	Leptokurtic	0.886	Moderately skewed	2.021	Leptokurtic
Nlr R	0.526	Approx. symmetric	1.231	Leptokurtic	0.791	Moderately skewed	1.780	Leptokurtic
Nmf L	0.585	Moderately skewed	-0.641	Playtikurtic	0.642	Moderately skewed	0.556	Leptokurtic
Nmf R	0.514	Approx. symmetric	0.227	Leptokurtic	0.596	Moderately skewed	0.142	Leptokurtic
Mf L	0.786	Moderately skewed	-0.275	Playtikurtic	0.378	Approx. symmetric	-0.691	Playtikurtic
Mf R	0.516	Approx. symmetric	-0.413	Playtikurtic	0.436	Approx. symmetric	-0.340	Playtikurtic
Mnm L	0.158	Approx. symmetric	-0.692	Playtikurtic	0.512	Approx. symmetric	-0.596	Playtikurtic
Mnm R	1.015	Highly skewed	-0.086	Playtikurtic	0.498	Approx. symmetric	-0.417	Playtikurtic
Nm L	1.116	Highly skewed	2.073	Leptokurtic	0.596	Moderately skewed	1.698	Leptokurtic
Nm R	0.321	Approx. symmetric	-1.158	Playtikurtic	0.020	Approx. symmetric	-0.269	Playtikurtic
Al L	0.554	Moderately skewed	-1.000	Playtikurtic	0.633	Moderately skewed	0.799	Leptokurtic
Al R	0.525	Approx. symmetric	-0.869	Playtikurtic	0.056	Approx. symmetric	-0.649	Playtikurtic

Table B.44a continued

Landmark		Females <24 years (<i>n</i> = 18)			Females 25-34 years (<i>n</i> = 29)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.584	Moderately skewed	-0.638	Playtikurtic	-0.013	Approx. symmetric	-0.317	Playtikurtic
Lno R	0.493	Approx. symmetric	0.390	Leptokurtic	0.929	Moderately skewed	1.817	Leptokurtic
Cf L	0.061	Approx. symmetric	-0.408	Playtikurtic	0.004	Approx. symmetric	-0.801	Playtikurtic
Cf R	0.500	Approx. symmetric	0.310	Leptokurtic	0.342	Approx. symmetric	-0.396	Playtikurtic
Sc L	0.315	Approx. symmetric	-0.614	Playtikurtic	-0.081	Approx. symmetric	-0.894	Playtikurtic
Sc R	0.095	Approx. symmetric	0.364	Leptokurtic	-0.026	Approx. symmetric	-0.546	Playtikurtic
Fe L	0.588	Moderately skewed	-0.541	Playtikurtic	0.345	Approx. symmetric	-0.660	Playtikurtic
Fe R	0.583	Moderately skewed	-0.103	Playtikurtic	0.336	Approx. symmetric	-0.245	Playtikurtic
Lf L	-0.280	Approx. symmetric	-0.658	Playtikurtic	0.541	Approx. symmetric	-0.508	Playtikurtic
Lf R	0.173	Approx. symmetric	-0.403	Playtikurtic	0.230	Approx. symmetric	-0.702	Playtikurtic
So L	0.260	Approx. symmetric	-0.990	Playtikurtic	-0.245	Approx. symmetric	-0.688	Playtikurtic
So R	-0.325	Approx. symmetric	-0.168	Playtikurtic	0.442	Approx. symmetric	-0.448	Playtikurtic
Os L	0.760	Moderately skewed	0.708	Leptokurtic	0.193	Approx. symmetric	-0.213	Playtikurtic
Os R	1.298	Highly skewed	2.339	Leptokurtic	-0.264	Approx. symmetric	-0.527	Playtikurtic
Or L	-0.871	Moderately skewed	0.691	Leptokurtic	0.457	Approx. symmetric	-0.588	Playtikurtic
Or R	0.220	Approx. symmetric	-0.001	Mesokurtic	0.502	Approx. symmetric	-0.557	Playtikurtic
Sor L	-1.083	Highly skewed	0.322	Leptokurtic	0.546	Approx. symmetric	-0.611	Playtikurtic
Sor R	-0.152	Approx. symmetric	-0.194	Playtikurtic	0.637	Moderately skewed	0.015	Mesokurtic
Smc L	-0.105	Approx. symmetric	-0.651	Playtikurtic	0.522	Approx. symmetric	0.039	Mesokurtic
Smc R	-0.258	Approx. symmetric	0.006	Mesokurtic	-0.283	Approx. symmetric	-0.295	Playtikurtic
Ecm L	-0.257	Approx. symmetric	-0.346	Playtikurtic	0.254	Approx. symmetric	0.050	Leptokurtic
Ecm R	-0.364	Approx. symmetric	-0.732	Playtikurtic	0.389	Approx. symmetric	-0.147	Playtikurtic

Table B.44a continued

Landmark		Females <24 years (<i>n</i> = 18)			Females 25-34 years (<i>n</i> = 29)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.194	Approx. symmetric	-1.394	Playtikurtic	0.749	Moderately skewed	0.335	Leptokurtic
Ft R	0.477	Approx. symmetric	-0.387	Playtikurtic	1.293	Highly skewed	2.388	Leptokurtic
Fmt L	1.091	Highly skewed	0.818	Leptokurtic	0.521	Approx. symmetric	0.811	Leptokurtic
Fmt R	0.805	Moderately skewed	0.629	Leptokurtic	0.309	Approx. symmetric	-0.906	Playtikurtic
Fmo L	1.546	Highly skewed	2.300	Leptokurtic	-0.299	Approx. symmetric	-0.126	Playtikurtic
Fmo R	1.384	Highly skewed	1.735	Leptokurtic	-0.078	Approx. symmetric	-0.693	Playtikurtic
Ec L	0.159	Approx. symmetric	-0.257	Playtikurtic	0.789	Moderately skewed	-0.003	Mesokurtic
Ec R	0.065	Approx. symmetric	-0.143	Playtikurtic	0.636	Moderately skewed	-0.208	Playtikurtic
Mz L	0.159	Approx. symmetric	-0.236	Playtikurtic	-0.506	Approx. symmetric	0.204	Leptokurtic
Mz R	-0.096	Approx. symmetric	-0.422	Playtikurtic	-0.453	Approx. symmetric	-0.165	Playtikurtic
Zm L	0.741	Moderately skewed	-0.324	Playtikurtic	0.169	Approx. symmetric	0.102	Leptokurtic
Zm R	0.812	Moderately skewed	0.353	Leptokurtic	-0.226	Approx. symmetric	-0.344	Playtikurtic
Ol L	0.412	Approx. symmetric	-0.374	Playtikurtic	0.458	Approx. symmetric	0.565	Leptokurtic
Ol R	0.700	Moderately skewed	0.928	Leptokurtic	0.190	Approx. symmetric	-0.879	Playtikurtic
Ju L	0.930	Moderately skewed	0.890	Leptokurtic	0.040	Approx. symmetric	0.266	Leptokurtic
Ju R	0.804	Moderately skewed	-0.105	Playtikurtic	-0.050	Approx. symmetric	-0.256	Playtikurtic
Zy L	0.492	Approx. symmetric	-0.442	Playtikurtic	0.573	Moderately skewed	-0.411	Playtikurtic
Zy R	0.773	Moderately skewed	0.124	Leptokurtic	0.341	Approx. symmetric	-0.919	Playtikurtic
Sgl L	0.873	Moderately skewed	0.251	Leptokurtic	1.147	Highly skewed	1.214	Leptokurtic
Sgl R	0.632	Moderately skewed	1.762	Leptokurtic	-0.443	Approx. symmetric	1.614	Leptokurtic
Cdl L	0.551	Moderately skewed	-0.648	Playtikurtic	0.598	Moderately skewed	-0.602	Playtikurtic
Cdl R	0.521	Approx. symmetric	0.170	Leptokurtic	1.009	Highly skewed	1.389	Leptokurtic

* According to Bulmer (1979)

Table B.44b - Skewness and kurtosis of facial soft tissue thicknesses in females (35-44 years and 45-54 years)

Landmark		Females 35-44 years (<i>n</i> = 36)			Females 45-54 years (<i>n</i> = 31)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.390	Approx. symmetric	-0.433	Platykurtic	0.870	Moderately skewed	0.172	Leptokurtic
Sg	0.232	Approx. symmetric	-1.108	Platykurtic	0.522	Approx. symmetric	-0.460	Platykurtic
G	0.383	Approx. symmetric	-1.081	Platykurtic	0.480	Approx. symmetric	-0.878	Platykurtic
N	-0.155	Approx. symmetric	-0.368	Platykurtic	0.211	Approx. symmetric	-0.763	Platykurtic
Mn	1.188	Highly skewed	1.578	Leptokurtic	-0.063	Approx. symmetric	-0.680	Platykurtic
Rhi	1.036	Highly skewed	0.257	Leptokurtic	-0.283	Approx. symmetric	-0.637	Platykurtic
Ss	0.128	Approx. symmetric	-0.526	Platykurtic	0.826	Moderately skewed	0.775	Leptokurtic
Mp	0.891	Moderately skewed	0.312	Leptokurtic	1.411	Highly skewed	3.229	Leptokurtic
Pr	0.646	Moderately skewed	-0.077	Platykurtic	1.696	Highly skewed	3.390	Leptokurtic
Ids	0.339	Approx. symmetric	0.006	Mesokurtic	0.584	Moderately skewed	-0.446	Platykurtic
Bilateral								
Nlr L	0.296	Approx. symmetric	0.133	Leptokurtic	0.975	Moderately skewed	1.404	Leptokurtic
Nlr R	0.531	Approx. symmetric	0.212	Leptokurtic	0.854	Moderately skewed	0.217	Leptokurtic
Nmf L	0.167	Approx. symmetric	-0.713	Platykurtic	0.196	Approx. symmetric	-0.432	Platykurtic
Nmf R	0.794	Moderately skewed	0.935	Leptokurtic	0.463	Approx. symmetric	-0.276	Platykurtic
Mf L	0.950	Moderately skewed	0.685	Leptokurtic	0.670	Moderately skewed	0.585	Leptokurtic
Mf R	0.820	Moderately skewed	1.089	Leptokurtic	0.701	Moderately skewed	0.475	Leptokurtic
Mnm L	0.200	Approx. symmetric	-0.636	Platykurtic	0.754	Moderately skewed	-0.388	Platykurtic
Mnm R	-0.072	Approx. symmetric	-0.352	Platykurtic	0.246	Approx. symmetric	-0.293	Platykurtic
Nm L	0.783	Moderately skewed	-0.119	Platykurtic	0.023	Approx. symmetric	-0.522	Platykurtic
Nm R	0.456	Approx. symmetric	-0.026	Mesokurtic	0.165	Approx. symmetric	0.271	Leptokurtic
Al L	0.185	Approx. symmetric	0.353	Leptokurtic	1.058	Highly skewed	2.879	Leptokurtic
Al R	0.547	Approx. symmetric	0.156	Leptokurtic	0.803	Moderately skewed	0.786	Leptokurtic

Table B.44b continued

Landmark		Females 35-44 years (<i>n</i> = 36)			Females 45-54 years (<i>n</i> = 31)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.530	Approx. symmetric	-0.695	Platykurtic	0.662	Moderately skewed	1.225	Leptokurtic
Lno R	0.217	Approx. symmetric	-0.707	Platykurtic	-0.219	Approx. symmetric	-0.065	Platykurtic
Cf L	0.606	Moderately skewed	-0.425	Platykurtic	0.912	Moderately skewed	-0.042	Mesokurtic
Cf R	0.783	Moderately skewed	0.584	Leptokurtic	0.985	Moderately skewed	0.839	Leptokurtic
Sc L	1.533	Highly skewed	3.976	Leptokurtic	1.788	Highly skewed	5.911	Leptokurtic
Sc R	1.599	Highly skewed	4.725	Leptokurtic	1.280	Highly skewed	3.013	Leptokurtic
Fe L	0.271	Approx. symmetric	-0.687	Platykurtic	-0.054	Approx. symmetric	-0.461	Platykurtic
Fe R	0.571	Moderately skewed	0.271	Leptokurtic	-0.386	Approx. symmetric	-1.036	Platykurtic
Lf L	0.072	Approx. symmetric	-0.979	Platykurtic	0.724	Moderately skewed	0.916	Leptokurtic
Lf R	0.666	Moderately skewed	1.381	Leptokurtic	0.260	Approx. symmetric	-0.790	Platykurtic
So L	0.493	Approx. symmetric	-0.683	Platykurtic	-0.055	Approx. symmetric	-0.720	Platykurtic
So R	0.985	Moderately skewed	1.078	Leptokurtic	0.162	Approx. symmetric	-0.184	Platykurtic
Os L	0.041	Approx. symmetric	-0.013	Mesokurtic	0.564	Moderately skewed	-0.097	Platykurtic
Os R	0.138	Approx. symmetric	-0.270	Platykurtic	0.158	Approx. symmetric	-0.583	Platykurtic
Or L	0.395	Approx. symmetric	-0.701	Platykurtic	0.676	Moderately skewed	-0.353	Platykurtic
Or R	0.203	Approx. symmetric	-1.444	Platykurtic	0.555	Moderately skewed	-0.177	Platykurtic
Sor L	0.606	Moderately skewed	-0.317	Platykurtic	0.441	Approx. symmetric	0.061	Leptokurtic
Sor R	0.363	Approx. symmetric	-0.788	Platykurtic	0.777	Moderately skewed	0.852	Leptokurtic
Smc L	0.561	Moderately skewed	-0.370	Platykurtic	1.483	Highly skewed	2.413	Leptokurtic
Smc R	0.536	Approx. symmetric	-0.368	Platykurtic	0.854	Moderately skewed	1.622	Leptokurtic
Ecm L	0.043	Approx. symmetric	-0.160	Platykurtic	1.021	Highly skewed	0.460	Leptokurtic
Ecm R	0.358	Approx. symmetric	-1.094	Platykurtic	0.767	Moderately skewed	0.819	Leptokurtic

Table B.44b continued

Landmark		Females 35-44 years (<i>n</i> = 36)			Females 45-54 years (<i>n</i> = 31)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	1.279	Highly skewed	1.289	Leptokurtic	0.536	Approx. symmetric	-0.456	Platykurtic
Ft R	0.640	Moderately skewed	-0.410	Platykurtic	0.161	Approx. symmetric	-0.474	Platykurtic
Fmt L	0.565	Moderately skewed	0.915	Leptokurtic	1.020	Highly skewed	0.450	Leptokurtic
Fmt R	0.433	Approx. symmetric	-0.171	Platykurtic	0.075	Approx. symmetric	-0.663	Platykurtic
Fmo L	0.526	Approx. symmetric	-0.749	Platykurtic	0.046	Approx. symmetric	-0.760	Platykurtic
Fmo R	0.076	Approx. symmetric	-0.280	Platykurtic	-0.080	Approx. symmetric	-0.900	Platykurtic
Ec L	0.410	Approx. symmetric	-0.704	Platykurtic	0.045	Approx. symmetric	-0.699	Platykurtic
Ec R	0.238	Approx. symmetric	-0.373	Platykurtic	0.475	Approx. symmetric	-0.209	Platykurtic
Mz L	-0.142	Approx. symmetric	-0.720	Platykurtic	0.459	Approx. symmetric	-0.349	Platykurtic
Mz R	-0.102	Approx. symmetric	-0.927	Platykurtic	0.437	Approx. symmetric	-0.401	Platykurtic
Zm L	0.267	Approx. symmetric	-0.235	Platykurtic	0.469	Approx. symmetric	0.310	Leptokurtic
Zm R	0.303	Approx. symmetric	-0.356	Platykurtic	0.435	Approx. symmetric	-0.149	Platykurtic
Ol L	0.697	Moderately skewed	-0.269	Platykurtic	0.607	Moderately skewed	2.194	Leptokurtic
Ol R	0.767	Moderately skewed	-0.013	Mesokurtic	0.377	Approx. symmetric	0.802	Leptokurtic
Ju L	0.062	Approx. symmetric	-0.557	Platykurtic	0.557	Moderately skewed	-0.162	Platykurtic
Ju R	0.208	Approx. symmetric	-0.676	Platykurtic	0.392	Approx. symmetric	-0.004	Mesokurtic
Zy L	0.378	Approx. symmetric	-0.796	Platykurtic	0.503	Approx. symmetric	1.236	Leptokurtic
Zy R	0.382	Approx. symmetric	-0.654	Platykurtic	0.451	Approx. symmetric	-0.481	Platykurtic
Sgl L	0.529	Approx. symmetric	-0.519	Platykurtic	0.177	Approx. symmetric	-1.278	Platykurtic
Sgl R	0.652	Moderately skewed	-0.484	Platykurtic	-0.390	Approx. symmetric	1.150	Leptokurtic
Cdl L	0.774	Moderately skewed	0.138	Leptokurtic	0.785	Moderately skewed	0.291	Leptokurtic
Cdl R	0.658	Moderately skewed	0.064	Leptokurtic	-0.015	Approx. symmetric	-0.988	Platykurtic

* According to Bulmer (1979)

Table B.44c - Skewness and kurtosis of facial soft tissue thicknesses in females (55-64 years and 65-84 years)

Landmark		Females 55-64 years (<i>n</i> = 24)			Females 65-84 years (<i>n</i> = 22)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.581	Moderately skewed	-0.139	Platykurtic	-0.455	Approx. symmetric	0.257	Leptokurtic
Sg	0.199	Approx. symmetric	-0.545	Platykurtic	0.082	Approx. symmetric	0.297	Leptokurtic
G	0.608	Moderately skewed	0.132	Leptokurtic	0.518	Approx. symmetric	-1.155	Platykurtic
N	0.578	Moderately skewed	1.426	Leptokurtic	0.343	Approx. symmetric	-0.719	Platykurtic
Mn	0.130	Approx. symmetric	-0.358	Platykurtic	-0.541	Approx. symmetric	-1.053	Platykurtic
Rhi	0.006	Approx. symmetric	-1.162	Platykurtic	0.204	Approx. symmetric	-0.668	Platykurtic
Ss	-0.050	Approx. symmetric	-0.015	Mesokurtic	-0.053	Approx. symmetric	-0.808	Platykurtic
Mp	-0.271	Approx. symmetric	0.275	Leptokurtic	-0.064	Approx. symmetric	-0.783	Platykurtic
Pr	-1.278	Highly skewed	3.269	Leptokurtic	-0.169	Approx. symmetric	-0.965	Platykurtic
Ids	-0.936	Moderately skewed	3.350	Leptokurtic	-0.848	Moderately skewed	0.420	Leptokurtic
Bilateral								
Nlr L	0.379	Approx. symmetric	1.324	Leptokurtic	1.088	Highly skewed	0.871	Leptokurtic
Nlr R	-0.337	Approx. symmetric	0.191	Leptokurtic	0.752	Moderately skewed	0.159	Leptokurtic
Nmf L	0.485	Approx. symmetric	-0.251	Platykurtic	-0.227	Approx. symmetric	-0.602	Platykurtic
Nmf R	0.394	Approx. symmetric	0.007	Mesokurtic	0.147	Approx. symmetric	-0.054	Platykurtic
Mf L	-0.062	Approx. symmetric	-0.115	Platykurtic	-0.327	Approx. symmetric	0.067	Leptokurtic
Mf R	0.598	Moderately skewed	0.617	Leptokurtic	0.012	Approx. symmetric	-0.180	Platykurtic
Mnm L	0.418	Approx. symmetric	-0.811	Platykurtic	0.481	Approx. symmetric	-0.531	Platykurtic
Mnm R	0.285	Approx. symmetric	-1.072	Platykurtic	-0.218	Approx. symmetric	-1.180	Platykurtic
Nm L	0.056	Approx. symmetric	-0.713	Platykurtic	-0.399	Approx. symmetric	-1.190	Platykurtic
Nm R	0.466	Approx. symmetric	-0.963	Platykurtic	-0.159	Approx. symmetric	-1.113	Platykurtic
Al L	0.237	Approx. symmetric	-0.548	Platykurtic	-0.131	Approx. symmetric	-0.594	Platykurtic
Al R	0.050	Approx. symmetric	-1.105	Platykurtic	0.360	Approx. symmetric	-0.669	Platykurtic

Table B.44c continued

Landmark		Females 55-64 years (<i>n</i> = 24)			Females 65-84 years (<i>n</i> = 22)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.906	Moderately skewed	0.425	Leptokurtic	0.843	Moderately skewed	1.145	Leptokurtic
Lno R	0.201	Approx. symmetric	-0.816	Platykurtic	0.434	Approx. symmetric	0.080	Leptokurtic
Cf L	0.391	Approx. symmetric	-0.452	Platykurtic	0.643	Moderately skewed	-0.016	Mesokurtic
Cf R	-0.107	Approx. symmetric	0.147	Leptokurtic	0.667	Moderately skewed	-0.460	Platykurtic
Sc L	0.781	Moderately skewed	1.491	Leptokurtic	0.507	Approx. symmetric	0.351	Leptokurtic
Sc R	0.172	Approx. symmetric	0.394	Leptokurtic	-0.056	Approx. symmetric	-1.096	Platykurtic
Fe L	0.532	Approx. symmetric	-0.691	Platykurtic	0.769	Moderately skewed	1.634	Leptokurtic
Fe R	0.413	Approx. symmetric	0.225	Leptokurtic	1.029	Highly skewed	0.949	Leptokurtic
Lf L	0.112	Approx. symmetric	-0.948	Platykurtic	0.409	Approx. symmetric	-0.929	Platykurtic
Lf R	0.414	Approx. symmetric	-0.284	Platykurtic	0.309	Approx. symmetric	-0.417	Platykurtic
So L	0.179	Approx. symmetric	-0.743	Platykurtic	0.043	Approx. symmetric	-0.998	Platykurtic
So R	0.692	Moderately skewed	0.288	Leptokurtic	0.125	Approx. symmetric	-0.328	Platykurtic
Os L	0.686	Moderately skewed	0.793	Leptokurtic	0.098	Approx. symmetric	0.837	Leptokurtic
Os R	0.417	Approx. symmetric	-0.265	Platykurtic	0.466	Approx. symmetric	-0.254	Platykurtic
Or L	0.456	Approx. symmetric	-0.504	Platykurtic	0.328	Approx. symmetric	-0.406	Platykurtic
Or R	0.414	Approx. symmetric	0.384	Leptokurtic	0.092	Approx. symmetric	-0.891	Platykurtic
Sor L	0.506	Approx. symmetric	0.379	Leptokurtic	0.397	Approx. symmetric	-0.243	Platykurtic
Sor R	0.411	Approx. symmetric	0.024	Mesokurtic	0.509	Approx. symmetric	-0.522	Platykurtic
Smc L	-0.480	Approx. symmetric	-0.851	Platykurtic	0.065	Approx. symmetric	-1.484	Platykurtic
Smc R	0.330	Approx. symmetric	-0.777	Platykurtic	0.269	Approx. symmetric	-1.004	Platykurtic
Ecm L	0.188	Approx. symmetric	-0.949	Platykurtic	-0.056	Approx. symmetric	-0.717	Platykurtic
Ecm R	-0.242	Approx. symmetric	0.087	Leptokurtic	-0.554	Moderately skewed	-0.755	Platykurtic

Table B.44c continued

Landmark		Females 55-64 years (<i>n</i> = 24)			Females 65-84 years (<i>n</i> = 22)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.680	Moderately skewed	0.528	Leptokurtic	0.322	Approx. symmetric	-0.817	Platykurtic
Ft R	0.035	Approx. symmetric	-0.437	Platykurtic	-0.013	Approx. symmetric	-0.361	Platykurtic
Fmt L	0.005	Approx. symmetric	-0.422	Platykurtic	0.282	Approx. symmetric	-0.526	Platykurtic
Fmt R	0.526	Approx. symmetric	-0.309	Platykurtic	0.033	Approx. symmetric	-0.248	Platykurtic
Fmo L	0.255	Approx. symmetric	-1.152	Platykurtic	0.729	Moderately skewed	-0.342	Platykurtic
Fmo R	0.148	Approx. symmetric	0.017	Mesokurtic	0.539	Approx. symmetric	-0.735	Platykurtic
Ec L	1.031	Highly skewed	0.431	Leptokurtic	0.198	Approx. symmetric	-1.014	Platykurtic
Ec R	0.531	Approx. symmetric	-0.299	Platykurtic	-0.230	Approx. symmetric	-0.359	Platykurtic
Mz L	-0.132	Approx. symmetric	0.216	Leptokurtic	-0.127	Approx. symmetric	0.006	Mesokurtic
Mz R	-0.139	Approx. symmetric	-0.109	Platykurtic	0.142	Approx. symmetric	-0.235	Platykurtic
Zm L	-0.312	Approx. symmetric	-0.572	Platykurtic	0.397	Approx. symmetric	-0.215	Platykurtic
Zm R	0.057	Approx. symmetric	-1.054	Platykurtic	0.284	Approx. symmetric	-0.834	Platykurtic
Ol L	-0.726	Moderately skewed	-0.583	Platykurtic	-0.323	Approx. symmetric	0.457	Leptokurtic
Ol R	-0.097	Approx. symmetric	-1.526	Platykurtic	0.058	Approx. symmetric	-0.813	Platykurtic
Ju L	0.465	Approx. symmetric	-0.699	Platykurtic	-0.291	Approx. symmetric	-0.041	Mesokurtic
Ju R	0.389	Approx. symmetric	-1.113	Platykurtic	0.327	Approx. symmetric	0.658	Leptokurtic
Zy L	0.650	Moderately skewed	-0.252	Platykurtic	-0.117	Approx. symmetric	-1.156	Platykurtic
Zy R	0.348	Approx. symmetric	-0.943	Platykurtic	0.796	Moderately skewed	0.447	Leptokurtic
Sgl L	0.577	Moderately skewed	0.006	Mesokurtic	1.366	Highly skewed	0.663	Leptokurtic
Sgl R	-0.085	Approx. symmetric	-1.138	Platykurtic	0.695	Moderately skewed	0.782	Leptokurtic
Cdl L	0.591	Moderately skewed	-0.373	Platykurtic	0.173	Approx. symmetric	-0.903	Platykurtic
Cdl R	-0.305	Approx. symmetric	-0.310	Platykurtic	0.134	Approx. symmetric	0.805	Leptokurtic

* According to Bulmer (1979)

Table B.45a - Skewness and kurtosis of facial soft tissue thicknesses in both sexes (BMI < 18.5)

Landmark		Both sexes BMI < 18.5 (<i>n</i> = 7)		
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.792	Moderately skewed	2.530	Leptokurtic
Sg	1.014	Highly skewed	1.277	Leptokurtic
G	-0.130	Approx. symmetric	-0.986	Platykurtic
N	0.376	Approx. symmetric	-0.450	Platykurtic
Mn	1.197	Highly skewed	0.020	Mesokurtic
Rhi	1.317	Highly skewed	2.672	Leptokurtic
Ss	-0.762	Moderately skewed	0.920	Leptokurtic
Mp	-0.818	Moderately skewed	0.996	Leptokurtic
Pr	0.626	Moderately skewed	-3.135	Platykurtic
Ids	0.092	Approx. symmetric	-0.517	Platykurtic
Bilateral				
Nlr L	0.087	Approx. symmetric	-1.496	Platykurtic
Nlr R	0.904	Moderately skewed	-0.654	Platykurtic
Nmf L	-0.067	Approx. symmetric	-1.861	Platykurtic
Nmf R	-0.477	Approx. symmetric	-0.632	Platykurtic
Mf L	1.056	Highly skewed	1.150	Leptokurtic
Mf R	1.294	Highly skewed	1.696	Leptokurtic
Mnm L	-0.333	Approx. symmetric	-2.209	Platykurtic
Mnm R	1.192	Highly skewed	1.073	Leptokurtic
Nm L	0.029	Approx. symmetric	-1.726	Platykurtic
Nm R	0.758	Moderately skewed	-0.291	Platykurtic
Al L	0.764	Moderately skewed	-0.306	Platykurtic
Al R	1.006	Highly skewed	0.403	Leptokurtic
Lno L	-1.032	Highly skewed	0.110	Leptokurtic
Lno R	0.265	Approx. symmetric	-0.356	Platykurtic
Cf L	0.258	Approx. symmetric	-1.628	Platykurtic
Cf R	0.625	Moderately skewed	-1.644	Platykurtic
Sc L	0.705	Moderately skewed	-0.940	Platykurtic
Sc R	0.868	Moderately skewed	-1.744	Platykurtic
Fe L	-0.339	Approx. symmetric	-0.905	Platykurtic
Fe R	-0.349	Approx. symmetric	-1.517	Platykurtic
Lf L	-0.415	Approx. symmetric	0.143	Leptokurtic
Lf R	-1.081	Highly skewed	0.942	Leptokurtic
So L	-0.531	Moderately skewed	-1.702	Platykurtic
So R	1.308	Highly skewed	1.857	Leptokurtic
Os L	0.004	Approx. symmetric	0.100	Leptokurtic
Os R	-0.172	Approx. symmetric	-1.188	Platykurtic
Or L	0.450	Approx. symmetric	-1.062	Platykurtic
Or R	0.326	Approx. symmetric	-0.372	Platykurtic

Table B.45a continued

Landmark		Both sexes BMI < 18.5 (n = 7)		
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
Sor L	0.098	Approx. symmetric	-0.891	Platykurtic
Sor R	0.361	Approx. symmetric	-1.280	Platykurtic
Smc L	0.389	Approx. symmetric	-2.438	Platykurtic
Smc R	-0.584	Moderately skewed	-0.359	Platykurtic
Ecm L	-1.388	Highly skewed	2.429	Leptokurtic
Ecm R	1.738	Highly skewed	3.186	Leptokurtic
Ft L	-0.072	Approx. symmetric	-1.333	Platykurtic
Ft R	-1.883	Highly skewed	3.940	Leptokurtic
Fmt L	0.334	Approx. symmetric	-0.951	Platykurtic
Fmt R	0.022	Approx. symmetric	-1.781	Platykurtic
Fmo L	0.884	Moderately skewed	0.540	Leptokurtic
Fmo R	1.218	Highly skewed	1.285	Leptokurtic
Ec L	2.464	Highly skewed	6.295	Leptokurtic
Ec R	1.032	Highly skewed	0.940	Leptokurtic
Mz L	-0.780	Moderately skewed	-1.198	Platykurtic
Mz R	0.961	Moderately skewed	2.999	Leptokurtic
Zm L	-0.351	Approx. symmetric	-0.985	Platykurtic
Zm R	0.120	Approx. symmetric	-2.245	Platykurtic
OI L	0.428	Approx. symmetric	-1.057	Platykurtic
OI R	1.245	Highly skewed	0.919	Leptokurtic
Ju L	-0.023	Approx. symmetric	-2.045	Platykurtic
Ju R	0.011	Approx. symmetric	-2.312	Platykurtic
Zy L	0.512	Moderately skewed	-2.113	Platykurtic
Zy R	0.471	Approx. symmetric	-2.251	Platykurtic
Sgl L	2.264	Highly skewed	5.578	Leptokurtic
Sgl R	-1.010	Highly skewed	-0.979	Platykurtic
Cdl L	-0.398	Approx. symmetric	-1.999	Platykurtic
Cdl R	-0.541	Moderately skewed	0.172	Leptokurtic

* According to Bulmer (1979)

Table B.45b - Skewness and kurtosis of facial soft tissue thicknesses in both sexes (18.5 > BMI < 25.0)

Landmark		Both sexes 18.5 > BMI < 25.0 (<i>n</i> = 160)		
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.486	Moderately skewed	0.048	Leptokurtic
Sg	0.582	Moderately skewed	0.073	Leptokurtic
G	0.167	Approx. symmetric	-0.296	Platykurtic
N	0.141	Approx. symmetric	-0.411	Platykurtic
Mn	0.209	Approx. symmetric	-0.399	Platykurtic
Rhi	0.714	Moderately skewed	0.585	Leptokurtic
Ss	0.610	Moderately skewed	0.426	Leptokurtic
Mp	0.364	Approx. symmetric	-0.579	Platykurtic
Pr	0.505	Moderately skewed	0.075	Leptokurtic
Ids	0.383	Approx. symmetric	-0.088	Platykurtic
Bilateral				
Nlr L	0.524	Moderately skewed	0.021	Mesokurtic
Nlr R	0.641	Moderately skewed	0.027	Mesokurtic
Nmf L	0.795	Moderately skewed	0.625	Leptokurtic
Nmf R	0.973	Moderately skewed	1.112	Leptokurtic
Mf L	0.743	Moderately skewed	0.727	Leptokurtic
Mf R	0.491	Approx. symmetric	-0.166	Platykurtic
Mnm L	0.491	Approx. symmetric	0.062	Leptokurtic
Mnm R	0.341	Approx. symmetric	-0.260	Platykurtic
Nm L	0.102	Approx. symmetric	-0.197	Platykurtic
Nm R	0.292	Approx. symmetric	-0.340	Platykurtic
Al L	0.251	Approx. symmetric	-0.190	Platykurtic
Al R	0.183	Approx. symmetric	-0.270	Platykurtic
Lno L	0.166	Approx. symmetric	-0.124	Platykurtic
Lno R	0.275	Approx. symmetric	-0.409	Platykurtic
Cf L	0.135	Approx. symmetric	-0.390	Platykurtic
Cf R	0.320	Approx. symmetric	-0.175	Platykurtic
Sc L	0.447	Approx. symmetric	-0.157	Platykurtic
Sc R	0.404	Approx. symmetric	-0.170	Platykurtic
Fe L	0.528	Moderately skewed	-0.295	Platykurtic
Fe R	0.613	Moderately skewed	0.375	Leptokurtic
Lf L	0.718	Moderately skewed	0.144	Leptokurtic
Lf R	0.519	Moderately skewed	-0.328	Platykurtic
So L	0.319	Approx. symmetric	-0.518	Platykurtic
So R	0.399	Approx. symmetric	-0.471	Platykurtic
Os L	0.041	Approx. symmetric	-0.447	Platykurtic
Os R	0.108	Approx. symmetric	-0.492	Platykurtic
Or L	0.457	Approx. symmetric	-0.143	Platykurtic
Or R	0.269	Approx. symmetric	-0.502	Platykurtic

Table B.45b continued

Landmark		Both sexes 18.5 > BMI < 25.0 (<i>n</i> = 160)		
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
Sor L	0.322	Approx. symmetric	-0.420	Platykurtic
Sor R	0.382	Approx. symmetric	-0.291	Platykurtic
Smc L	0.242	Approx. symmetric	-0.227	Platykurtic
Smc R	0.019	Approx. symmetric	-0.081	Platykurtic
Ecm L	0.114	Approx. symmetric	0.097	Leptokurtic
Ecm R	0.230	Approx. symmetric	-0.649	Platykurtic
Ft L	0.651	Moderately skewed	0.190	Leptokurtic
Ft R	0.289	Approx. symmetric	-0.256	Platykurtic
Fmt L	0.276	Approx. symmetric	0.045	Leptokurtic
Fmt R	0.381	Approx. symmetric	0.072	Leptokurtic
Fmo L	0.329	Approx. symmetric	-0.350	Platykurtic
Fmo R	0.536	Moderately skewed	0.246	Leptokurtic
Ec L	0.715	Moderately skewed	0.345	Leptokurtic
Ec R	0.185	Approx. symmetric	-0.430	Platykurtic
Mz L	0.057	Approx. symmetric	-0.764	Platykurtic
Mz R	-0.047	Approx. symmetric	-0.557	Platykurtic
Zm L	0.285	Approx. symmetric	-0.306	Platykurtic
Zm R	0.027	Approx. symmetric	-0.295	Platykurtic
OI L	0.286	Approx. symmetric	-0.133	Platykurtic
OI R	0.160	Approx. symmetric	-0.449	Platykurtic
Ju L	0.217	Approx. symmetric	-0.163	Platykurtic
Ju R	0.278	Approx. symmetric	-0.105	Platykurtic
Zy L	0.512	Moderately skewed	-0.108	Platykurtic
Zy R	0.403	Approx. symmetric	-0.369	Platykurtic
Sgl L	0.390	Approx. symmetric	-0.139	Platykurtic
Sgl R	-0.098	Approx. symmetric	-0.106	Platykurtic
Cdl L	0.555	Moderately skewed	-0.184	Platykurtic
Cdl R	0.175	Approx. symmetric	-0.178	Platykurtic

* According to Bulmer (1979)

Table B.45c - Skewness and kurtosis of facial soft tissue thicknesses in both sexes (25.0 > BMI < 30.0)

Landmark		Both sexes 25.0 > BMI < 30.0 (n = 99)		
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.523	Approx. symmetric	0.123	Leptokurtic
Sg	0.280	Approx. symmetric	-0.249	Platykurtic
G	0.233	Approx. symmetric	-0.317	Platykurtic
N	0.217	Approx. symmetric	-0.279	Platykurtic
Mn	0.461	Approx. symmetric	-0.183	Platykurtic
Rhi	0.279	Approx. symmetric	-0.624	Platykurtic
Ss	0.067	Approx. symmetric	-0.338	Platykurtic
Mp	0.134	Approx. symmetric	-0.621	Platykurtic
Pr	0.502	Approx. symmetric	-0.246	Platykurtic
Ids	0.337	Approx. symmetric	-0.340	Platykurtic
Bilateral				
Nlr L	0.205	Approx. symmetric	-0.445	Platykurtic
Nlr R	0.372	Approx. symmetric	-0.146	Platykurtic
Nmf L	0.256	Approx. symmetric	-0.167	Platykurtic
Nmf R	0.021	Approx. symmetric	-0.310	Platykurtic
Mf L	0.645	Moderately skewed	-0.194	Platykurtic
Mf R	0.411	Approx. symmetric	-0.580	Platykurtic
Mnm L	0.456	Approx. symmetric	-0.617	Platykurtic
Mnm R	0.153	Approx. symmetric	-0.262	Platykurtic
Nm L	0.121	Approx. symmetric	-0.395	Platykurtic
Nm R	-0.115	Approx. symmetric	-0.246	Platykurtic
Al L	0.449	Approx. symmetric	-0.497	Platykurtic
Al R	0.241	Approx. symmetric	-0.438	Platykurtic
Lno L	0.375	Approx. symmetric	-0.736	Platykurtic
Lno R	0.256	Approx. symmetric	-0.833	Platykurtic
Cf L	0.335	Approx. symmetric	-0.815	Platykurtic
Cf R	0.496	Approx. symmetric	-0.028	Mesokurtic
Sc L	0.347	Approx. symmetric	-0.454	Platykurtic
Sc R	0.010	Approx. symmetric	-0.907	Platykurtic
Fe L	0.102	Approx. symmetric	-0.372	Platykurtic
Fe R	0.524	Approx. symmetric	-0.037	Mesokurtic
Lf L	0.431	Approx. symmetric	0.091	Leptokurtic
Lf R	0.284	Approx. symmetric	-0.157	Platykurtic
So L	0.461	Approx. symmetric	-0.329	Platykurtic
So R	0.481	Approx. symmetric	-0.276	Platykurtic
Os L	-0.022	Approx. symmetric	-0.277	Platykurtic
Os R	-0.077	Approx. symmetric	-0.152	Platykurtic
Or L	0.587	Moderately skewed	-0.292	Platykurtic
Or R	0.375	Approx. symmetric	-0.837	Platykurtic

Table B.45c continued

Landmark		Both sexes 25.0 > BMI < 30.0 (<i>n</i> = 99)		
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
Sor L	0.545	Approx. symmetric	-0.295	Platykurtic
Sor R	0.291	Approx. symmetric	-0.579	Platykurtic
Smc L	0.279	Approx. symmetric	-0.603	Platykurtic
Smc R	0.360	Approx. symmetric	-0.471	Platykurtic
Ecm L	0.157	Approx. symmetric	-0.691	Platykurtic
Ecm R	0.137	Approx. symmetric	-0.944	Platykurtic
Ft L	0.397	Approx. symmetric	-0.206	Platykurtic
Ft R	0.265	Approx. symmetric	-0.538	Platykurtic
Fmt L	0.174	Approx. symmetric	-0.271	Platykurtic
Fmt R	0.189	Approx. symmetric	-0.478	Platykurtic
Fmo L	0.077	Approx. symmetric	-0.642	Platykurtic
Fmo R	-0.116	Approx. symmetric	-0.484	Platykurtic
Ec L	0.315	Approx. symmetric	-0.410	Platykurtic
Ec R	0.173	Approx. symmetric	-0.594	Platykurtic
Mz L	-0.071	Approx. symmetric	-0.333	Platykurtic
Mz R	0.074	Approx. symmetric	-0.279	Platykurtic
Zm L	0.406	Approx. symmetric	-0.279	Platykurtic
Zm R	0.132	Approx. symmetric	-0.169	Platykurtic
OI L	0.455	Approx. symmetric	-0.349	Platykurtic
OI R	0.090	Approx. symmetric	-0.777	Platykurtic
Ju L	-0.089	Approx. symmetric	-0.421	Platykurtic
Ju R	0.172	Approx. symmetric	0.014	Mesokurtic
Zy L	0.007	Approx. symmetric	-0.332	Platykurtic
Zy R	0.431	Approx. symmetric	-0.218	Platykurtic
Sgl L	-0.018	Approx. symmetric	-0.419	Platykurtic
Sgl R	0.192	Approx. symmetric	-0.908	Platykurtic
Cdl L	0.025	Approx. symmetric	0.184	Leptokurtic
Cdl R	0.221	Approx. symmetric	-0.860	Platykurtic

* According to Bulmer (1979)

Table B.45d - Skewness and kurtosis of facial soft tissue thicknesses in both sexes (30.0 > BMI)

Landmark		Both sexes 30.0 > BMI (n = 54)		
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
M	-0.173	Approx. symmetric	-0.195	Platykurtic
Sg	-0.066	Approx. symmetric	0.680	Leptokurtic
G	0.162	Approx. symmetric	0.027	Mesokurtic
N	0.352	Approx. symmetric	-0.781	Platykurtic
Mn	-0.103	Approx. symmetric	-0.220	Platykurtic
Rhi	0.320	Approx. symmetric	-0.595	Platykurtic
Ss	0.329	Approx. symmetric	-0.042	Mesokurtic
Mp	0.274	Approx. symmetric	-0.496	Platykurtic
Pr	0.137	Approx. symmetric	-0.811	Platykurtic
Ids	0.191	Approx. symmetric	-0.941	Platykurtic
Bilateral				
Nlr L	0.208	Approx. symmetric	-0.732	Platykurtic
Nlr R	0.519	Moderately skewed	-0.051	Platykurtic
Nmf L	0.741	Moderately skewed	0.619	Leptokurtic
Nmf R	0.226	Approx. symmetric	-0.385	Platykurtic
Mf L	0.222	Approx. symmetric	-0.387	Platykurtic
Mf R	0.252	Approx. symmetric	-0.643	Platykurtic
Mnm L	0.126	Approx. symmetric	-0.631	Platykurtic
Mnm R	0.215	Approx. symmetric	-0.355	Platykurtic
Nm L	-0.009	Approx. symmetric	0.103	Leptokurtic
Nm R	-0.162	Approx. symmetric	-0.365	Platykurtic
Al L	0.551	Moderately skewed	-0.300	Platykurtic
Al R	0.070	Approx. symmetric	-0.766	Platykurtic
Lno L	0.420	Approx. symmetric	0.162	Leptokurtic
Lno R	0.044	Approx. symmetric	0.062	Leptokurtic
Cf L	0.160	Approx. symmetric	-0.405	Platykurtic
Cf R	0.750	Moderately skewed	0.029	Mesokurtic
Sc L	0.470	Approx. symmetric	-0.192	Platykurtic
Sc R	0.357	Approx. symmetric	-0.592	Platykurtic
Fe L	0.055	Approx. symmetric	-0.525	Platykurtic
Fe R	0.085	Approx. symmetric	0.089	Leptokurtic
Lf L	0.165	Approx. symmetric	-0.230	Platykurtic
Lf R	-0.099	Approx. symmetric	-0.363	Platykurtic
So L	0.014	Approx. symmetric	-0.735	Platykurtic
So R	0.036	Approx. symmetric	-0.125	Platykurtic
Os L	-0.131	Approx. symmetric	-0.120	Platykurtic
Os R	0.351	Approx. symmetric	-0.074	Platykurtic
Or L	0.268	Approx. symmetric	-0.456	Platykurtic
Or R	0.231	Approx. symmetric	-0.416	Platykurtic

Table B.45d continued

Landmark		Both sexes 30.0 > BMI (<i>n</i> = 54)		
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
Sor L	0.341	Approx. symmetric	-0.328	Platykurtic
Sor R	-0.042	Approx. symmetric	-0.255	Platykurtic
Smc L	0.262	Approx. symmetric	0.336	Leptokurtic
Smc R	0.234	Approx. symmetric	-0.216	Platykurtic
Ecm L	-0.381	Approx. symmetric	-0.216	Platykurtic
Ecm R	0.174	Approx. symmetric	0.009	Mesokurtic
Ft L	0.211	Approx. symmetric	0.334	Leptokurtic
Ft R	0.083	Approx. symmetric	-0.654	Platykurtic
Fmt L	0.103	Approx. symmetric	-0.085	Platykurtic
Fmt R	0.650	Moderately skewed	-0.080	Platykurtic
Fmo L	0.528	Moderately skewed	0.056	Leptokurtic
Fmo R	0.339	Approx. symmetric	-0.297	Platykurtic
Ec L	0.304	Approx. symmetric	-0.849	Platykurtic
Ec R	0.336	Approx. symmetric	-0.183	Platykurtic
Mz L	0.220	Approx. symmetric	-0.605	Platykurtic
Mz R	0.247	Approx. symmetric	-0.532	Platykurtic
Zm L	0.019	Approx. symmetric	-0.554	Platykurtic
Zm R	0.080	Approx. symmetric	-0.534	Platykurtic
OI L	0.059	Approx. symmetric	-0.585	Platykurtic
OI R	-0.567	Approx. symmetric	0.682	Leptokurtic
Ju L	-0.035	Approx. symmetric	-0.304	Platykurtic
Ju R	0.592	Moderately skewed	-0.207	Platykurtic
Zy L	-0.090	Approx. symmetric	-0.289	Platykurtic
Zy R	0.120	Approx. symmetric	-1.052	Platykurtic
Sgl L	-0.204	Approx. symmetric	-0.175	Platykurtic
Sgl R	0.090	Approx. symmetric	-0.551	Platykurtic
Cdl L	0.763	Moderately skewed	0.277	Leptokurtic
Cdl R	0.102	Approx. symmetric	-0.533	Platykurtic

* According to Bulmer (1979)

Table B.46a - Skewness and kurtosis of facial soft tissue thicknesses in females (BMI < 18.5)

Landmark		Females BMI < 18.5 (n = 5)		
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
M	-0.343	Approx. symmetric	-3.043	Platykurtic
Sg	0.756	Moderately skewed	0.129	Leptokurtic
G	0.141	Approx. symmetric	-0.985	Platykurtic
N	-0.032	Approx. symmetric	-1.808	Platykurtic
Mn	0.568	Moderately skewed	-1.770	Platykurtic
Rhi	1.549	Highly skewed	2.792	Leptokurtic
Ss	-0.637	Moderately skewed	0.131	Leptokurtic
Mp	-0.508	Moderately skewed	-0.484	Platykurtic
Pr	-1.627	Highly skewed		
Ids	-1.220	Highly skewed		
Bilateral				
Nlr L	-1.158	Highly skewed	0.430	Leptokurtic
Nlr R	0.546	Moderately skewed	-2.705	Platykurtic
Nmf L	0.590	Moderately skewed	-2.550	Platykurtic
Nmf R	0.025	Approx. symmetric	-2.043	Platykurtic
Mf L	-0.121	Approx. symmetric	-0.648	Platykurtic
Mf R	1.508	Highly skewed	2.501	Leptokurtic
Mnm L	0.534	Moderately skewed	-2.379	Platykurtic
Mnm R	-0.060	Approx. symmetric	-1.046	Platykurtic
Nm L	0.516	Moderately skewed	-3.227	Platykurtic
Nm R	0.348	Approx. symmetric	-2.608	Platykurtic
Al L	0.362	Approx. symmetric	-2.073	Platykurtic
Al R	1.079	Highly skewed	0.311	Leptokurtic
Lno L	-0.724	Moderately skewed	-0.153	Platykurtic
Lno R	0.189	Approx. symmetric	0.191	Leptokurtic
Cf L	0.342	Approx. symmetric	-2.470	Platykurtic
Cf R	-0.122	Approx. symmetric	-2.247	Platykurtic
Sc L	0.677	Moderately skewed	-1.970	Platykurtic
Sc R	0.543	Moderately skewed	-3.008	Platykurtic
Fe L	0.227	Approx. symmetric	-0.798	Platykurtic
Fe R	0.029	Approx. symmetric	-1.763	Platykurtic
Lf L	-0.766	Moderately skewed	0.090	Leptokurtic
Lf R	-0.905	Moderately skewed	-0.145	Platykurtic
So L	-0.650	Moderately skewed	-1.105	Platykurtic
So R	0.344	Approx. symmetric	-0.576	Platykurtic
Os L	0.105	Approx. symmetric	-1.239	Platykurtic
Os R	0.057	Approx. symmetric	-2.251	Platykurtic
Or L	0.522	Moderately skewed	-1.075	Platykurtic
Or R	0.257	Approx. symmetric	-0.166	Platykurtic

Table B.46a continued

Landmark		Females BMI < 18.5 (<i>n</i> = 5)		
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*
Sor L	0.102	Approx. symmetric	0.241	Leptokurtic
Sor R	0.533	Moderately skewed	-0.853	Platykurtic
Smc L	-0.527	Moderately skewed	-2.927	Platykurtic
Smc R	-0.564	Moderately skewed	-1.416	Platykurtic
Ecm L	1.093	Highly skewed		
Ecm R	1.659	Highly skewed	2.847	Leptokurtic
Ft L	-0.197	Approx. symmetric	-0.577	Platykurtic
Ft R	-0.181	Approx. symmetric	0.121	Leptokurtic
Fmt L	0.435	Approx. symmetric	-2.306	Platykurtic
Fmt R	-0.106	Approx. symmetric	-0.636	Platykurtic
Fmo L	0.333	Approx. symmetric	-2.037	Platykurtic
Fmo R	0.138	Approx. symmetric	-1.136	Platykurtic
Ec L	0.589	Moderately skewed	-2.602	Platykurtic
Ec R	-0.159	Approx. symmetric	0.143	Leptokurtic
Mz L	-1.073	Highly skewed	0.613	Leptokurtic
Mz R	1.966	Highly skewed	4.072	Leptokurtic
Zm L	0.598	Moderately skewed	-2.874	Platykurtic
Zm R	0.355	Approx. symmetric	-2.675	Platykurtic
OI L	1.372	Highly skewed		
OI R	1.541	Highly skewed	2.126	Leptokurtic
Ju L	0.259	Approx. symmetric	-2.535	Platykurtic
Ju R	0.003	Approx. symmetric	-2.204	Platykurtic
Zy L	0.595	Moderately skewed	-3.107	Platykurtic
Zy R	0.759	Moderately skewed	-2.406	Platykurtic
Sgl L	-0.607	Moderately skewed	-0.927	Platykurtic
Sgl R	-0.777	Moderately skewed	0.166	Leptokurtic
Cdl L	-0.570	Moderately skewed	-1.303	Platykurtic
Cdl R	0.214	Approx. symmetric	-0.928	Platykurtic

* According to Bulmer (1979)

Table B.46b - Skewness and kurtosis of facial soft tissue thicknesses in males and females (18.5 > BMI < 25.0)

Landmark		Males 18.5 > BMI < 25.0 (<i>n</i> = 68)			Females 18.5 > BMI < 25.0 (<i>n</i> = 92)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.289	Approx. symmetric	-0.366	Platykurtic	0.183	Approx. symmetric	-0.496	Platykurtic
Sg	0.493	Approx. symmetric	0.371	Leptokurtic	0.664	Moderately skewed	-0.132	Platykurtic
G	0.312	Approx. symmetric	-0.263	Platykurtic	0.065	Approx. symmetric	-0.234	Platykurtic
N	-0.120	Approx. symmetric	-0.304	Platykurtic	0.095	Approx. symmetric	-0.397	Platykurtic
Mn	-0.003	Approx. symmetric	-0.580	Platykurtic	0.228	Approx. symmetric	-0.126	Platykurtic
Rhi	0.644	Moderately skewed	0.687	Leptokurtic	0.615	Moderately skewed	-0.158	Platykurtic
Ss	0.623	Moderately skewed	0.337	Leptokurtic	0.353	Approx. symmetric	-0.407	Platykurtic
Mp	-0.046	Approx. symmetric	-0.302	Platykurtic	0.327	Approx. symmetric	-0.442	Platykurtic
Pr	0.539	Moderately skewed	-0.373	Platykurtic	0.312	Approx. symmetric	-0.129	Platykurtic
Ids	0.299	Approx. symmetric	-0.328	Platykurtic	0.133	Approx. symmetric	-0.606	Platykurtic
Bilateral								
Nlr L	0.364	Approx. symmetric	0.025	Mesokurtic	-0.091	Approx. symmetric	0.062	Leptokurtic
Nlr R	0.340	Approx. symmetric	-0.037	Mesokurtic	0.197	Approx. symmetric	-0.290	Platykurtic
Nmf L	0.570	Moderately skewed	-0.072	Platykurtic	0.320	Approx. symmetric	-0.489	Platykurtic
Nmf R	0.731	Moderately skewed	0.093	Leptokurtic	0.355	Approx. symmetric	-0.487	Platykurtic
Mf L	0.585	Moderately skewed	0.033	Mesokurtic	0.284	Approx. symmetric	-0.145	Platykurtic
Mf R	0.248	Approx. symmetric	-0.675	Platykurtic	0.185	Approx. symmetric	-0.699	Platykurtic
Mnm L	0.637	Moderately skewed	0.026	Mesokurtic	0.250	Approx. symmetric	-0.504	Platykurtic
Mnm R	0.318	Approx. symmetric	-0.302	Platykurtic	0.320	Approx. symmetric	-0.276	Platykurtic
Nm L	0.358	Approx. symmetric	-0.400	Platykurtic	0.174	Approx. symmetric	-0.216	Platykurtic
Nm R	0.390	Approx. symmetric	-0.403	Platykurtic	0.361	Approx. symmetric	-0.367	Platykurtic
Al L	0.507	Moderately skewed	0.080	Leptokurtic	0.218	Approx. symmetric	-0.442	Platykurtic
Al R	0.276	Approx. symmetric	-0.356	Platykurtic	0.311	Approx. symmetric	-0.205	Platykurtic

Table B.46b continued

Landmark		Males 18.5 > BMI < 25.0 (<i>n</i> = 68)			Females 18.5 > BMI < 25.0 (<i>n</i> = 92)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.197	Approx. symmetric	-0.454	Platykurtic	-0.058	Approx. symmetric	-0.275	Platykurtic
Lno R	0.031	Approx. symmetric	-0.723	Platykurtic	0.234	Approx. symmetric	-0.165	Platykurtic
Cf L	0.316	Approx. symmetric	-0.425	Platykurtic	0.258	Approx. symmetric	-0.462	Platykurtic
Cf R	0.206	Approx. symmetric	-0.214	Platykurtic	0.231	Approx. symmetric	-0.343	Platykurtic
Sc L	0.384	Approx. symmetric	0.161	Leptokurtic	0.355	Approx. symmetric	-0.419	Platykurtic
Sc R	0.388	Approx. symmetric	-0.083	Platykurtic	0.269	Approx. symmetric	-0.194	Platykurtic
Fe L	0.337	Approx. symmetric	-0.417	Platykurtic	0.601	Moderately skewed	-0.352	Platykurtic
Fe R	0.626	Moderately skewed	-0.080	Platykurtic	0.186	Approx. symmetric	-0.597	Platykurtic
Lf L	0.601	Moderately skewed	-0.329	Platykurtic	0.557	Moderately skewed	-0.290	Platykurtic
Lf R	0.427	Approx. symmetric	-0.519	Platykurtic	0.602	Moderately skewed	-0.192	Platykurtic
So L	0.146	Approx. symmetric	-0.736	Platykurtic	0.430	Approx. symmetric	-0.200	Platykurtic
So R	0.200	Approx. symmetric	-0.959	Platykurtic	0.383	Approx. symmetric	-0.116	Platykurtic
Os L	0.190	Approx. symmetric	-0.480	Platykurtic	0.204	Approx. symmetric	-0.457	Platykurtic
Os R	-0.200	Approx. symmetric	-0.148	Platykurtic	0.240	Approx. symmetric	-0.280	Platykurtic
Or L	0.585	Moderately skewed	-0.232	Platykurtic	0.425	Approx. symmetric	0.104	Leptokurtic
Or R	0.431	Approx. symmetric	-0.648	Platykurtic	0.134	Approx. symmetric	-0.310	Platykurtic
Sor L	0.721	Moderately skewed	-0.187	Platykurtic	0.005	Approx. symmetric	-0.335	Platykurtic
Sor R	0.672	Moderately skewed	-0.327	Platykurtic	-0.055	Approx. symmetric	-0.577	Platykurtic
Smc L	0.187	Approx. symmetric	-0.146	Platykurtic	0.353	Approx. symmetric	-0.383	Platykurtic
Smc R	-0.048	Approx. symmetric	0.057	Leptokurtic	0.077	Approx. symmetric	-0.136	Platykurtic
Ecm L	0.240	Approx. symmetric	-0.670	Platykurtic	0.180	Approx. symmetric	0.330	Leptokurtic
Ecm R	0.067	Approx. symmetric	-0.611	Platykurtic	0.406	Approx. symmetric	-0.524	Platykurtic

Table B.46b continued

Landmark		Males 18.5 > BMI < 25.0 (<i>n</i> = 68)			Females 18.5 > BMI < 25.0 (<i>n</i> = 92)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.706	Moderately skewed	0.019	Mesokurtic	0.425	Approx. symmetric	-0.557	Platykurtic
Ft R	0.447	Approx. symmetric	-0.256	Platykurtic	0.237	Approx. symmetric	-0.427	Platykurtic
Fmt L	0.027	Approx. symmetric	-0.341	Platykurtic	0.085	Approx. symmetric	-0.548	Platykurtic
Fmt R	0.249	Approx. symmetric	-0.094	Platykurtic	0.127	Approx. symmetric	-0.536	Platykurtic
Fmo L	0.236	Approx. symmetric	-0.540	Platykurtic	0.248	Approx. symmetric	-0.486	Platykurtic
Fmo R	0.488	Approx. symmetric	-0.336	Platykurtic	0.119	Approx. symmetric	-0.236	Platykurtic
Ec L	0.598	Moderately skewed	-0.370	Platykurtic	0.384	Approx. symmetric	0.048	Leptokurtic
Ec R	0.033	Approx. symmetric	-0.596	Platykurtic	0.267	Approx. symmetric	-0.270	Platykurtic
Mz L	0.371	Approx. symmetric	-0.637	Platykurtic	-0.191	Approx. symmetric	-0.347	Platykurtic
Mz R	0.131	Approx. symmetric	-0.461	Platykurtic	-0.186	Approx. symmetric	-0.332	Platykurtic
Zm L	0.409	Approx. symmetric	-0.277	Platykurtic	0.226	Approx. symmetric	-0.198	Platykurtic
Zm R	0.157	Approx. symmetric	-0.280	Platykurtic	-0.040	Approx. symmetric	-0.407	Platykurtic
OI L	0.226	Approx. symmetric	-0.044	Mesokurtic	0.201	Approx. symmetric	-0.442	Platykurtic
OI R	0.017	Approx. symmetric	-0.626	Platykurtic	0.206	Approx. symmetric	-0.214	Platykurtic
Ju L	0.368	Approx. symmetric	-0.522	Platykurtic	0.000	Approx. symmetric	0.202	Leptokurtic
Ju R	0.379	Approx. symmetric	-0.206	Platykurtic	0.232	Approx. symmetric	0.109	Leptokurtic
Zy L	0.666	Moderately skewed	-0.028	Mesokurtic	0.276	Approx. symmetric	-0.462	Platykurtic
Zy R	0.415	Approx. symmetric	-0.484	Platykurtic	0.320	Approx. symmetric	-0.480	Platykurtic
Sgl L	0.351	Approx. symmetric	-0.336	Platykurtic	0.255	Approx. symmetric	-0.466	Platykurtic
Sgl R	-0.176	Approx. symmetric	-0.449	Platykurtic	-0.339	Approx. symmetric	0.086	Leptokurtic
Cdl L	0.171	Approx. symmetric	-0.403	Platykurtic	0.529	Moderately skewed	-0.474	Platykurtic
Cdl R	-0.035	Approx. symmetric	-0.163	Platykurtic	0.037	Approx. symmetric	-0.297	Platykurtic

* According to Bulmer (1979)

Table B.46c - Skewness and kurtosis of facial soft tissue thicknesses in males and females (25.0 > BMI < 30.0)

Landmark		Males 25.0 > BMI < 30.0 (<i>n</i> = 59)			Females 25.0 > BMI < 30.0 (<i>n</i> = 40)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
M	0.199	Approx. symmetric	-0.067	Platykurtic	0.688	Moderately skewed	0.012	Mesokurtic
Sg	0.074	Approx. symmetric	-0.679	Platykurtic	-0.249	Approx. symmetric	-0.009	Mesokurtic
G	0.008	Approx. symmetric	-0.135	Platykurtic	0.521	Approx. symmetric	-0.383	Platykurtic
N	0.174	Approx. symmetric	-0.529	Platykurtic	0.140	Approx. symmetric	0.041	Mesokurtic
Mn	0.384	Approx. symmetric	-0.538	Platykurtic	0.109	Approx. symmetric	-0.855	Platykurtic
Rhi	0.154	Approx. symmetric	-0.766	Platykurtic	0.332	Approx. symmetric	-0.499	Platykurtic
Ss	-0.135	Approx. symmetric	-0.171	Platykurtic	-0.034	Approx. symmetric	-0.728	Platykurtic
Mp	-0.306	Approx. symmetric	-0.100	Platykurtic	0.339	Approx. symmetric	1.025	Leptokurtic
Pr	0.227	Approx. symmetric	0.244	Leptokurtic	1.635	Highly skewed	2.541	Leptokurtic
Ids	0.232	Approx. symmetric	0.176	Leptokurtic	1.566	Highly skewed	4.181	Leptokurtic
Bilateral								
Nlr L	0.071	Approx. symmetric	0.570	Leptokurtic	0.445	Approx. symmetric	0.619	Leptokurtic
Nlr R	0.158	Approx. symmetric	0.515	Leptokurtic	-0.320	Approx. symmetric	1.312	Leptokurtic
Nmf L	0.242	Approx. symmetric	-0.389	Platykurtic	0.068	Approx. symmetric	0.066	Leptokurtic
Nmf R	0.088	Approx. symmetric	-0.526	Platykurtic	0.087	Approx. symmetric	-0.090	Platykurtic
Mf L	0.480	Approx. symmetric	-0.644	Platykurtic	0.854	Moderately skewed	1.111	Leptokurtic
Mf R	0.155	Approx. symmetric	-0.631	Platykurtic	0.825	Moderately skewed	0.150	Leptokurtic
Mnm L	0.569	Moderately skewed	-0.385	Platykurtic	0.293	Approx. symmetric	-0.924	Platykurtic
Mnm R	0.353	Approx. symmetric	-0.307	Platykurtic	-0.105	Approx. symmetric	-0.017	Mesokurtic
Nm L	0.082	Approx. symmetric	-0.322	Platykurtic	0.179	Approx. symmetric	-0.461	Platykurtic
Nm R	-0.293	Approx. symmetric	0.154	Leptokurtic	0.081	Approx. symmetric	-0.326	Platykurtic
Al L	-0.020	Approx. symmetric	-0.703	Platykurtic	1.248	Highly skewed	1.205	Leptokurtic
Al R	0.167	Approx. symmetric	-0.237	Platykurtic	0.430	Approx. symmetric	-0.454	Platykurtic

Table B.46c continued

Landmark		Males 25.0 > BMI < 30.0 (<i>n</i> = 59)				Females 25.0 > BMI < 30.0 (<i>n</i> = 40)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*	
Lno L	0.079	Approx. symmetric	-1.080	Platykurtic	0.464	Approx. symmetric	-0.340	Platykurtic	
Lno R	-0.076	Approx. symmetric	-0.985	Platykurtic	0.433	Approx. symmetric	-0.316	Platykurtic	
Cf L	0.020	Approx. symmetric	-0.697	Platykurtic	0.880	Moderately skewed	-0.101	Platykurtic	
Cf R	0.418	Approx. symmetric	0.034	Mesokurtic	0.592	Moderately skewed	-0.092	Platykurtic	
Sc L	-0.044	Approx. symmetric	-0.151	Platykurtic	1.237	Highly skewed	3.661	Leptokurtic	
Sc R	-0.743	Moderately skewed	0.576	Leptokurtic	0.729	Moderately skewed	0.872	Leptokurtic	
Fe L	-0.160	Approx. symmetric	-0.481	Platykurtic	0.210	Approx. symmetric	0.156	Leptokurtic	
Fe R	0.299	Approx. symmetric	-0.343	Platykurtic	0.676	Moderately skewed	1.071	Leptokurtic	
Lf L	0.251	Approx. symmetric	-0.534	Platykurtic	-0.378	Approx. symmetric	-0.048	Mesokurtic	
Lf R	-0.019	Approx. symmetric	-0.131	Platykurtic	0.309	Approx. symmetric	-0.186	Platykurtic	
So L	0.329	Approx. symmetric	-0.392	Platykurtic	0.699	Moderately skewed	-0.009	Mesokurtic	
So R	0.455	Approx. symmetric	-0.566	Platykurtic	0.602	Moderately skewed	0.315	Leptokurtic	
Os L	-0.375	Approx. symmetric	-0.307	Platykurtic	0.429	Approx. symmetric	1.445	Leptokurtic	
Os R	0.006	Approx. symmetric	-0.385	Platykurtic	-0.052	Approx. symmetric	0.059	Leptokurtic	
Or L	0.776	Moderately skewed	0.176	Leptokurtic	0.343	Approx. symmetric	-0.697	Platykurtic	
Or R	0.480	Approx. symmetric	-0.711	Platykurtic	0.240	Approx. symmetric	-0.910	Platykurtic	
Sor L	0.592	Moderately skewed	-0.031	Mesokurtic	0.491	Approx. symmetric	-0.532	Platykurtic	
Sor R	0.259	Approx. symmetric	-0.502	Platykurtic	0.306	Approx. symmetric	-0.670	Platykurtic	
Smc L	0.135	Approx. symmetric	-0.528	Platykurtic	0.532	Approx. symmetric	-0.445	Platykurtic	
Smc R	-0.080	Approx. symmetric	-0.569	Platykurtic	0.994	Moderately skewed	0.409	Leptokurtic	
Ecm L	-0.118	Approx. symmetric	-0.356	Platykurtic	0.622	Moderately skewed	-0.357	Platykurtic	
Ecm R	-0.359	Approx. symmetric	-0.631	Platykurtic	0.972	Moderately skewed	-0.044	Mesokurtic	

Table B.46c continued

Landmark		Males 25.0 > BMI < 30.0 (<i>n</i> = 59)			Females 25.0 > BMI < 30.0 (<i>n</i> = 40)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Ft L	0.371	Approx. symmetric	0.045	Mesokurtic	0.525	Approx. symmetric	-0.333	Platykurtic
Ft R	0.271	Approx. symmetric	-0.657	Platykurtic	0.366	Approx. symmetric	-0.315	Platykurtic
Fmt L	0.322	Approx. symmetric	-0.064	Platykurtic	0.220	Approx. symmetric	-0.563	Platykurtic
Fmt R	0.330	Approx. symmetric	-0.421	Platykurtic	0.113	Approx. symmetric	-0.603	Platykurtic
Fmo L	0.192	Approx. symmetric	-0.881	Platykurtic	-0.041	Approx. symmetric	-0.392	Platykurtic
Fmo R	-0.107	Approx. symmetric	-0.494	Platykurtic	-0.090	Approx. symmetric	-0.514	Platykurtic
Ec L	0.490	Approx. symmetric	-0.318	Platykurtic	0.073	Approx. symmetric	-0.440	Platykurtic
Ec R	0.423	Approx. symmetric	-0.553	Platykurtic	-0.189	Approx. symmetric	-0.379	Platykurtic
Mz L	0.204	Approx. symmetric	-0.319	Platykurtic	0.376	Approx. symmetric	-0.454	Platykurtic
Mz R	0.186	Approx. symmetric	-0.528	Platykurtic	0.545	Approx. symmetric	-0.217	Platykurtic
Zm L	0.351	Approx. symmetric	-0.417	Platykurtic	0.614	Moderately skewed	0.046	Mesokurtic
Zm R	0.041	Approx. symmetric	-0.173	Platykurtic	0.377	Approx. symmetric	-0.409	Platykurtic
Ol L	-0.009	Approx. symmetric	-0.483	Platykurtic	1.315	Highly skewed	2.396	Leptokurtic
Ol R	-0.268	Approx. symmetric	-0.245	Platykurtic	0.511	Approx. symmetric	-0.421	Platykurtic
Ju L	-0.086	Approx. symmetric	-0.628	Platykurtic	0.314	Approx. symmetric	-0.738	Platykurtic
Ju R	0.139	Approx. symmetric	0.009	Mesokurtic	0.581	Moderately skewed	-0.514	Platykurtic
Zy L	-0.010	Approx. symmetric	-0.288	Platykurtic	-0.008	Approx. symmetric	-0.321	Platykurtic
Zy R	0.571	Moderately skewed	0.394	Leptokurtic	0.333	Approx. symmetric	-0.661	Platykurtic
Sgl L	0.133	Approx. symmetric	-0.808	Platykurtic	-0.378	Approx. symmetric	-0.166	Platykurtic
Sgl R	0.002	Approx. symmetric	-0.554	Platykurtic	0.431	Approx. symmetric	-0.983	Platykurtic
Cdl L	0.273	Approx. symmetric	0.235	Leptokurtic	-0.008	Approx. symmetric	0.043	Mesokurtic
Cdl R	0.228	Approx. symmetric	-0.953	Platykurtic	0.267	Approx. symmetric	-0.946	Platykurtic

* According to Bulmer (1979)

Table B.46d - Skewness and kurtosis of facial soft tissue thicknesses in males and females (30.0 > BMI)

Landmark		Males 30.0 > BMI (<i>n</i> = 31)				Females 30.0 > BMI (<i>n</i> = 23)			
Unilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*	
M	0.085	Approx. symmetric	-0.579	Platykurtic	-0.229	Approx. symmetric	-0.306	Platykurtic	
Sg	0.583	Moderately skewed	0.253	Leptokurtic	-0.458	Approx. symmetric	-0.014	Mesokurtic	
G	0.722	Moderately skewed	-0.080	Platykurtic	-0.434	Approx. symmetric	-0.428	Platykurtic	
N	-0.323	Approx. symmetric	-0.814	Platykurtic	-0.114	Approx. symmetric	-0.788	Platykurtic	
Mn	0.042	Approx. symmetric	-0.902	Platykurtic	-0.169	Approx. symmetric	0.120	Leptokurtic	
Rhi	0.132	Approx. symmetric	-0.790	Platykurtic	0.237	Approx. symmetric	-0.734	Platykurtic	
Ss	-0.043	Approx. symmetric	-0.417	Platykurtic	-0.231	Approx. symmetric	0.072	Leptokurtic	
Mp	-0.087	Approx. symmetric	-0.436	Platykurtic	-0.097	Approx. symmetric	-1.091	Platykurtic	
Pr	-0.072	Approx. symmetric	-0.985	Platykurtic	0.228	Approx. symmetric	0.143	Leptokurtic	
Ids	-0.370	Approx. symmetric	-0.142	Platykurtic	0.202	Approx. symmetric	-0.431	Platykurtic	
Bilateral									
Nlr L	-0.237	Approx. symmetric	-0.844	Platykurtic	-0.185	Approx. symmetric	-0.784	Platykurtic	
Nlr R	0.032	Approx. symmetric	-0.176	Platykurtic	-0.238	Approx. symmetric	-0.620	Platykurtic	
Nmf L	0.811	Moderately skewed	-0.368	Platykurtic	-0.297	Approx. symmetric	-0.247	Platykurtic	
Nmf R	0.225	Approx. symmetric	-0.252	Platykurtic	0.329	Approx. symmetric	-0.637	Platykurtic	
Mf L	0.585	Moderately skewed	-0.742	Platykurtic	0.421	Approx. symmetric	-0.342	Platykurtic	
Mf R	0.187	Approx. symmetric	-0.757	Platykurtic	0.325	Approx. symmetric	-0.730	Platykurtic	
Mnm L	0.457	Approx. symmetric	-0.793	Platykurtic	-0.186	Approx. symmetric	-0.610	Platykurtic	
Mnm R	0.543	Moderately skewed	-0.261	Platykurtic	-0.102	Approx. symmetric	-0.769	Platykurtic	
Nm L	0.179	Approx. symmetric	-0.308	Platykurtic	-0.126	Approx. symmetric	0.441	Leptokurtic	
Nm R	-0.191	Approx. symmetric	-0.596	Platykurtic	-0.112	Approx. symmetric	0.103	Leptokurtic	
Al L	0.445	Approx. symmetric	-0.444	Platykurtic	0.569	Moderately skewed	-0.801	Platykurtic	
Al R	-0.186	Approx. symmetric	-0.447	Platykurtic	0.419	Approx. symmetric	-0.573	Platykurtic	

Table B.46d continued

Landmark		Males 30.0 > BMI (<i>n</i> = 31)			Females 30.0 > BMI (<i>n</i> = 23)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*
Lno L	0.534	Moderately skewed	-0.196	Platykurtic	-0.049	Approx. symmetric	-0.316	Platykurtic
Lno R	0.328	Approx. symmetric	-0.588	Platykurtic	-0.216	Approx. symmetric	0.406	Leptokurtic
Cf L	0.391	Approx. symmetric	-0.779	Platykurtic	-0.031	Approx. symmetric	-0.587	Platykurtic
Cf R	0.563	Moderately skewed	-0.544	Platykurtic	0.472	Approx. symmetric	-0.336	Platykurtic
Sc L	0.445	Approx. symmetric	0.379	Leptokurtic	0.208	Approx. symmetric	-1.403	Platykurtic
Sc R	0.297	Approx. symmetric	-0.976	Platykurtic	0.540	Moderately skewed	0.463	Leptokurtic
Fe L	0.018	Approx. symmetric	-0.739	Platykurtic	0.218	Approx. symmetric	-0.155	Platykurtic
Fe R	0.420	Approx. symmetric	-0.224	Platykurtic	-0.067	Approx. symmetric	0.120	Leptokurtic
Lf L	0.118	Approx. symmetric	-0.980	Platykurtic	0.425	Approx. symmetric	0.443	Leptokurtic
Lf R	-0.015	Approx. symmetric	-0.604	Platykurtic	0.013	Approx. symmetric	-0.207	Platykurtic
So L	0.135	Approx. symmetric	-0.946	Platykurtic	-0.192	Approx. symmetric	-0.170	Platykurtic
So R	0.042	Approx. symmetric	-0.395	Platykurtic	0.079	Approx. symmetric	0.432	Leptokurtic
Os L	0.417	Approx. symmetric	-0.761	Platykurtic	0.207	Approx. symmetric	-0.147	Platykurtic
Os R	0.392	Approx. symmetric	-0.447	Platykurtic	0.132	Approx. symmetric	-0.071	Platykurtic
Or L	0.184	Approx. symmetric	-0.501	Platykurtic	0.403	Approx. symmetric	-0.158	Platykurtic
Or R	0.324	Approx. symmetric	-0.304	Platykurtic	0.164	Approx. symmetric	-0.395	Platykurtic
Sor L	0.550	Moderately skewed	-0.192	Platykurtic	0.085	Approx. symmetric	-0.316	Platykurtic
Sor R	0.145	Approx. symmetric	-0.434	Platykurtic	-0.137	Approx. symmetric	-0.261	Platykurtic
Smc L	0.044	Approx. symmetric	-0.561	Platykurtic	0.366	Approx. symmetric	0.348	Leptokurtic
Smc R	0.514	Moderately skewed	0.058	Leptokurtic	0.084	Approx. symmetric	-0.440	Platykurtic
Ecm L	0.067	Approx. symmetric	-1.305	Platykurtic	-0.197	Approx. symmetric	-0.616	Platykurtic
Ecm R	0.328	Approx. symmetric	0.322	Leptokurtic	0.119	Approx. symmetric	-0.298	Platykurtic

Table B.46d continued

Table 2 (continued)

Landmark		Males 30.0 > BMI (<i>n</i> = 31)				Females 30.0 > BMI (<i>n</i> = 23)			
Bilateral	Skewness	Interpretation*	Kurtosis	Interpretation*	Skewness	Interpretation*	Kurtosis	Interpretation*	
Ft L	0.209	Approx. symmetric	-0.725	Platykurtic	0.428	Approx. symmetric	-0.141	Platykurtic	
Ft R	0.343	Approx. symmetric	-0.966	Platykurtic	-0.078	Approx. symmetric	-0.526	Platykurtic	
Fmt L	0.462	Approx. symmetric	-0.578	Platykurtic	0.336	Approx. symmetric	-0.223	Platykurtic	
Fmt R	0.905	Moderately skewed	-0.009	Mesokurtic	0.543	Moderately skewed	-0.161	Platykurtic	
Fmo L	0.664	Moderately skewed	-0.025	Mesokurtic	-0.147	Approx. symmetric	-1.040	Platykurtic	
Fmo R	0.325	Approx. symmetric	-0.564	Platykurtic	0.078	Approx. symmetric	-0.165	Platykurtic	
Ec L	0.512	Moderately skewed	-0.851	Platykurtic	-0.053	Approx. symmetric	-0.662	Platykurtic	
Ec R	0.457	Approx. symmetric	-0.329	Platykurtic	-0.140	Approx. symmetric	-0.366	Platykurtic	
Mz L	0.464	Approx. symmetric	-0.221	Platykurtic	-0.114	Approx. symmetric	-0.446	Platykurtic	
Mz R	0.412	Approx. symmetric	-0.803	Platykurtic	-0.371	Approx. symmetric	-0.040	Mesokurtic	
Zm L	-0.162	Approx. symmetric	-0.364	Platykurtic	0.273	Approx. symmetric	-0.575	Platykurtic	
Zm R	0.224	Approx. symmetric	-0.570	Platykurtic	-0.110	Approx. symmetric	-0.147	Platykurtic	
Ol L	0.603	Moderately skewed	0.098	Leptokurtic	0.660	Moderately skewed	-0.553	Platykurtic	
Ol R	-0.023	Approx. symmetric	-0.748	Platykurtic	-0.149	Approx. symmetric	0.590	Leptokurtic	
Ju L	-0.421	Approx. symmetric	-0.476	Platykurtic	-0.023	Approx. symmetric	-0.597	Platykurtic	
Ju R	0.455	Approx. symmetric	-0.490	Platykurtic	0.203	Approx. symmetric	-0.741	Platykurtic	
Zy L	0.368	Approx. symmetric	-1.190	Platykurtic	-0.515	Moderately skewed	-0.030	Mesokurtic	
Zy R	0.054	Approx. symmetric	-0.879	Platykurtic	0.343	Approx. symmetric	-1.084	Platykurtic	
Sgl L	0.667	Moderately skewed	-0.119	Platykurtic	-0.120	Approx. symmetric	-1.308	Platykurtic	
Sgl R	0.141	Approx. symmetric	-0.133	Platykurtic	0.204	Approx. symmetric	-0.786	Platykurtic	
Cdl L	1.028	Highly skewed	0.315	Leptokurtic	0.864	Moderately skewed	-0.381	Platykurtic	
Cdl R	0.338	Approx. symmetric	-1.021	Platykurtic	-0.062	Approx. symmetric	0.024	Mesokurtic	

* According to Bulmer (1979)

Table B.47 - Standard error and z-score values for skewness and kurtosis of the facial soft tissue depths, both sexes

the labial soft tissue depths, both sexes						
Landmark			Sample (<i>n</i> = 320)			
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.474	0.136	3.485	-0.251	0.272	-0.923
Sg	0.354	0.136	2.603	-0.503	0.271	-1.856
G	0.392	0.136	2.882	-0.258	0.272	-0.949
N	0.388	0.136	2.853	-0.243	0.272	-0.893
Mn	0.315	0.137	2.299	-0.302	0.272	-1.110
Rhi	0.433	0.137	3.161	-0.425	0.273	-1.557
Ss	0.214	0.137	1.562	-0.159	0.273	-0.582
Mp	0.310	0.138	2.246	-0.470	0.276	-1.703
Pr	0.441	0.147	3.000	-0.276	0.293	-0.942
Ids	0.214	0.155	1.381	-0.211	0.309	-0.683
Bilateral						
Nlr L	0.301	0.144	2.090	-0.424	0.287	-1.477
Nlr R	0.422	0.144	2.931	-0.220	0.287	-0.767
Nmf L	0.557	0.136	4.096	0.209	0.272	0.768
Nmf R	0.418	0.136	3.074	-0.324	0.272	-1.191
Mf L	0.488	0.136	3.588	-0.253	0.272	-0.930
Mf R	0.432	0.136	3.176	-0.364	0.272	-1.338
Mnm L	0.570	0.138	4.130	-0.086	0.276	-0.312
Mnm R	0.343	0.137	2.504	-0.331	0.274	-1.208
Nm L	0.152	0.137	1.109	-0.246	0.273	-0.901
Nm R	0.337	0.137	2.460	-0.158	0.273	-0.579
Al L	0.273	0.136	2.007	-0.246	0.272	-0.904
Al R	0.272	0.136	2.000	-0.271	0.272	-0.996
Lno L	0.408	0.136	3.000	-0.262	0.272	-0.963
Lno R	0.283	0.136	2.081	-0.492	0.272	-1.809
Cf L	0.321	0.138	2.326	-0.434	0.276	-1.572
Cf R	0.434	0.138	3.145	-0.055	0.275	-0.200
Sc L	0.426	0.146	2.918	-0.404	0.290	-1.393
Sc R	0.375	0.144	2.604	-0.248	0.287	-0.864
Fe L	0.461	0.137	3.365	-0.128	0.273	-0.469
Fe R	0.461	0.136	3.390	-0.117	0.272	-0.430
Lf L	0.353	0.137	2.577	-0.400	0.272	-1.471
Lf R	0.427	0.136	3.140	-0.287	0.272	-1.055
So L	0.331	0.137	2.416	-0.339	0.272	-1.246
So R	0.323	0.136	2.375	-0.278	0.272	-1.022
Os L	0.132	0.136	0.971	-0.319	0.272	-1.173
Os R	0.159	0.136	1.169	-0.277	0.272	-1.018
Or L	0.459	0.136	3.375	-0.345	0.272	-1.268
Or R	0.403	0.136	2.963	-0.424	0.272	-1.559

Table B.47 continued

Landmark			Sample ($n = 320$)			
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Sor L	0.543	0.136	3.993	-0.159	0.272	-0.585
Sor R	0.395	0.136	2.904	-0.459	0.272	-1.688
Smc L	0.340	0.139	2.446	-0.337	0.278	-1.212
Smc R	0.327	0.139	2.353	-0.336	0.276	-1.217
Ecm L	0.298	0.155	1.923	-0.276	0.309	-0.893
Ecm R	0.231	0.153	1.510	-0.521	0.306	-1.703
Ft L	0.531	0.137	3.876	-0.294	0.272	-1.081
Ft R	0.486	0.136	3.574	-0.006	0.272	-0.022
Fmt L	0.418	0.136	3.074	0.117	0.272	0.430
Fmt R	0.605	0.136	4.449	0.263	0.272	0.967
Fmo L	0.315	0.136	2.316	-0.517	0.272	-1.901
Fmo R	0.279	0.137	2.036	-0.400	0.272	-1.471
Ec L	0.648	0.136	4.765	-0.193	0.272	-0.710
Ec R	0.420	0.136	3.088	-0.321	0.272	-1.180
Mz L	0.216	0.136	1.588	-0.215	0.272	-0.790
Mz R	0.102	0.136	0.750	-0.327	0.272	-1.202
Zm L	0.305	0.136	2.243	-0.335	0.272	-1.232
Zm R	0.178	0.137	1.299	-0.332	0.272	-1.221
Ol L	0.348	0.156	2.231	-0.241	0.310	-0.777
Ol R	0.294	0.153	1.922	-0.469	0.304	-1.543
Ju L	0.186	0.143	1.301	-0.552	0.285	-1.937
Ju R	0.324	0.139	2.331	-0.359	0.276	-1.301
Zy L	0.421	0.170	2.476	-0.484	0.338	-1.432
Zy R	0.383	0.156	2.455	-0.453	0.312	-1.452
Sgl L	0.345	0.181	1.906	-0.533	0.359	-1.485
Sgl R	0.027	0.166	0.163	-0.241	0.330	-0.730
Cdl L	0.330	0.185	1.784	-0.416	0.368	-1.130
Cdl R	0.241	0.168	1.435	-0.239	0.334	-0.716

**Table B.48a - Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, both sexes
(<24 years and 25-34 years)**

Landmark		<24 years (<i>n</i> = 46)					25-34 years (<i>n</i> = 56)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.150	0.350	0.429	-0.552	0.688	-0.802	0.395	0.319	1.238	-0.104	0.628	-0.166
Sg	0.587	0.350	1.677	-0.133	0.688	-0.193	0.526	0.319	1.649	-0.379	0.628	-0.604
G	0.477	0.350	1.363	-0.454	0.688	-0.660	0.111	0.319	0.348	0.139	0.628	0.221
N	0.013	0.350	0.037	-0.770	0.688	-1.119	0.343	0.319	1.075	0.007	0.628	0.011
Mn	-0.169	0.350	-0.483	-0.577	0.688	-0.839	0.215	0.319	0.674	-0.515	0.628	-0.820
Rhi	0.613	0.350	1.751	0.543	0.688	0.789	0.057	0.319	0.179	-0.619	0.628	-0.986
Ss	0.154	0.354	0.435	-0.032	0.695	-0.046	0.475	0.319	1.489	-0.161	0.628	-0.256
Mp	-0.103	0.350	-0.294	0.044	0.688	0.064	0.459	0.319	1.439	-0.478	0.628	-0.761
Pr	0.304	0.350	0.869	-0.351	0.688	-0.510	0.728	0.322	2.261	-0.593	0.634	-0.935
Ids	-0.135	0.354	-0.381	-0.093	0.695	-0.134	0.394	0.322	1.224	-0.329	0.634	-0.519
Bilateral												
Nlr L	-0.141	0.350	-0.403	-0.397	0.688	-0.577	0.431	0.322	1.339	-0.747	0.634	-1.178
Nlr R	0.054	0.350	0.154	-0.417	0.688	-0.606	0.517	0.319	1.621	-0.210	0.628	-0.334
Nmf L	0.326	0.350	0.931	-0.719	0.688	-1.045	0.556	0.319	1.743	0.039	0.628	0.062
Nmf R	0.423	0.350	1.209	-0.579	0.688	-0.842	0.440	0.319	1.379	-0.373	0.628	-0.594
Mf L	0.208	0.350	0.594	-1.289	0.688	-1.874	0.290	0.319	0.909	-0.172	0.628	-0.274
Mf R	0.074	0.350	0.211	-0.873	0.688	-1.269	0.495	0.319	1.552	-0.008	0.628	-0.013
Mnm L	0.154	0.354	0.435	-0.282	0.695	-0.406	0.390	0.319	1.223	-0.519	0.628	-0.826
Mnm R	0.761	0.350	2.174	-0.153	0.688	-0.222	0.343	0.319	1.075	-0.253	0.628	-0.403
Nm L	0.454	0.350	1.297	-0.719	0.688	-1.045	0.294	0.319	0.922	0.060	0.628	0.096
Nm R	0.334	0.350	0.954	-0.582	0.688	-0.846	0.196	0.319	0.614	0.094	0.628	0.150
Al L	-0.041	0.350	-0.117	-1.013	0.688	-1.472	0.563	0.319	1.765	-0.049	0.628	-0.078
Al R	-0.172	0.350	-0.491	-0.860	0.688	-1.250	0.178	0.319	0.558	-0.278	0.628	-0.443

Table B.48a continued

Landmark		<24 years (<i>n</i> = 46)					25-34 years (<i>n</i> = 56)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Lno L	0.162	0.350	0.463	-0.870	0.688	-1.265	0.247	0.319	0.774	-0.112	0.628	-0.178
Lno R	-0.114	0.350	-0.326	-0.097	0.688	-0.141	0.564	0.319	1.768	-0.422	0.628	-0.672
Cf L	-0.214	0.350	-0.611	-0.305	0.688	-0.443	0.449	0.319	1.408	-0.314	0.628	-0.500
Cf R	0.003	0.350	0.009	-0.331	0.688	-0.481	0.556	0.319	1.743	-0.198	0.628	-0.315
Sc L	0.123	0.354	0.347	-0.141	0.695	-0.203	0.347	0.319	1.088	-0.513	0.628	-0.817
Sc R	-0.310	0.354	-0.876	-0.195	0.695	-0.281	0.395	0.319	1.238	-0.424	0.628	-0.675
Fe L	0.413	0.354	1.167	-0.771	0.695	-1.109	0.395	0.319	1.238	-0.508	0.628	-0.809
Fe R	0.753	0.350	2.151	0.268	0.688	0.390	0.118	0.319	0.370	-0.472	0.628	-0.752
Lf L	0.290	0.350	0.829	-0.648	0.688	-0.942	0.212	0.319	0.665	-0.714	0.628	-1.137
Lf R	0.380	0.350	1.086	-0.406	0.688	-0.590	0.478	0.319	1.498	-0.472	0.628	-0.752
So L	0.229	0.350	0.654	-0.732	0.688	-1.064	0.671	0.319	2.103	0.680	0.628	1.083
So R	0.015	0.350	0.043	0.055	0.688	0.080	0.603	0.319	1.890	-0.430	0.628	-0.685
Os L	0.047	0.350	0.134	-0.727	0.688	-1.057	-0.016	0.319	-0.050	-0.370	0.628	-0.589
Os R	0.476	0.350	1.360	-0.283	0.688	-0.411	-0.267	0.319	-0.837	-0.234	0.628	-0.373
Or L	-0.327	0.350	-0.934	-0.201	0.688	-0.292	0.523	0.319	1.639	-0.451	0.628	-0.718
Or R	-0.085	0.350	-0.243	-0.210	0.688	-0.305	0.211	0.319	0.661	-0.620	0.628	-0.987
Sor L	-0.174	0.354	-0.492	-0.019	0.695	-0.027	0.303	0.319	0.950	-0.750	0.628	-1.194
Sor R	0.110	0.350	0.314	-0.433	0.688	-0.629	0.573	0.319	1.796	-0.444	0.628	-0.707
Smc L	-0.201	0.354	-0.568	-0.615	0.695	-0.885	0.301	0.319	0.944	-0.605	0.628	-0.963
Smc R	0.082	0.350	0.234	-0.581	0.688	-0.844	-0.177	0.319	-0.555	-0.431	0.628	-0.686
Ecm L	-0.211	0.361	-0.584	-0.558	0.709	-0.787	0.497	0.319	1.558	0.060	0.628	0.096
Ecm R	-0.213	0.354	-0.602	-0.572	0.695	-0.823	0.116	0.322	0.360	-0.592	0.634	-0.934

Table B.48a continued

Landmark		<24 years (<i>n</i> = 46)					25-34 years (<i>n</i> = 56)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Ft L	0.453	0.350	1.294	-0.656	0.688	-0.953	0.661	0.319	2.072	-0.398	0.628	-0.634
Ft R	0.489	0.350	1.397	-0.497	0.688	-0.722	0.699	0.319	2.191	-0.130	0.628	-0.207
Fmt L	0.349	0.350	0.997	-0.399	0.688	-0.580	0.289	0.319	0.906	-0.055	0.628	-0.088
Fmt R	0.133	0.350	0.380	-0.214	0.688	-0.311	0.764	0.319	2.395	-0.040	0.628	-0.064
Fmo L	0.577	0.350	1.649	-0.322	0.688	-0.468	-0.035	0.319	-0.110	-0.237	0.628	-0.377
Fmo R	0.414	0.350	1.183	-0.437	0.688	-0.635	0.187	0.319	0.586	-0.529	0.628	-0.842
Ec L	0.366	0.350	1.046	-0.642	0.688	-0.933	0.699	0.319	2.191	0.113	0.628	0.180
Ec R	0.142	0.350	0.406	-0.694	0.688	-1.009	0.453	0.319	1.420	-0.330	0.628	-0.525
Mz L	0.217	0.350	0.620	-0.529	0.688	-0.769	-0.105	0.319	-0.329	-0.221	0.628	-0.352
Mz R	0.154	0.350	0.440	-0.311	0.688	-0.452	-0.137	0.319	-0.429	-0.033	0.628	-0.053
Zm L	-0.033	0.350	-0.094	-0.289	0.688	-0.420	0.003	0.319	0.009	-0.453	0.628	-0.721
Zm R	0.004	0.350	0.011	0.009	0.688	0.013	0.141	0.319	0.442	-0.126	0.628	-0.201
Ol L	0.270	0.357	0.756	-0.478	0.702	-0.681	0.006	0.325	0.018	-0.465	0.639	-0.728
Ol R	0.416	0.354	1.175	-0.303	0.695	-0.436	0.274	0.327	0.838	-0.693	0.644	-1.076
Ju L	0.637	0.357	1.784	-0.027	0.702	-0.038	0.595	0.327	1.820	0.149	0.644	0.231
Ju R	0.594	0.350	1.697	-0.268	0.688	-0.390	-0.022	0.327	-0.067	-0.537	0.644	-0.834
Zy L	0.493	0.414	1.271	-0.548	0.809	-0.677	0.550	0.365	1.507	-0.135	0.717	-0.188
Zy R	0.717	0.388	1.732	-0.149	0.759	-0.196	0.183	0.357	0.513	-0.651	0.702	-0.927
Sgl L	0.358	0.414	0.865	-0.585	0.809	-0.723	0.768	0.398	1.930	0.024	0.778	0.031
Sgl R	-0.029	0.388	-0.075	-0.141	0.759	-0.186	-0.051	0.361	-0.141	0.321	0.709	0.453
Cdl L	-0.046	0.427	-0.108	-1.043	0.833	-1.252	0.646	0.403	1.603	-0.044	0.788	-0.056
Cdl R	0.263	0.393	0.669	-0.363	0.768	-0.473	0.042	0.361	0.116	-0.277	0.709	-0.391

**Table B.48b – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, both sexes
(35-44 years and 45-54 years)**

Landmark		35-44 years (<i>n</i> = 69)					45-54 years (<i>n</i> = 63)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.187	0.289	0.647	-0.190	0.570	-0.333	0.523	0.302	1.732	-0.695	0.595	-1.168
Sg	0.173	0.289	0.599	-0.363	0.570	-0.637	0.217	0.302	0.719	-1.001	0.595	-1.682
G	0.216	0.289	0.747	-0.232	0.570	-0.407	0.285	0.302	0.944	-0.780	0.595	-1.311
N	0.409	0.289	1.415	-0.181	0.570	-0.318	0.517	0.302	1.712	-0.301	0.595	-0.506
Mn	0.640	0.289	2.215	-0.325	0.570	-0.570	0.325	0.302	1.076	-0.674	0.595	-1.133
Rhi	0.609	0.291	2.093	-0.436	0.574	-0.760	0.498	0.302	1.649	0.388	0.595	0.652
Ss	-0.267	0.289	-0.924	-0.049	0.570	-0.086	0.499	0.302	1.652	-0.514	0.595	-0.864
Mp	-0.002	0.289	-0.007	-1.109	0.570	-1.946	0.466	0.306	1.523	-0.644	0.604	-1.066
Pr	0.268	0.304	0.882	-0.522	0.599	-0.871	0.548	0.322	1.702	-0.241	0.634	-0.380
Ids	0.289	0.314	0.920	-0.316	0.618	-0.511	0.258	0.350	0.737	-0.287	0.688	-0.417
Bilateral												
Nlr L	-0.027	0.297	-0.091	-0.402	0.586	-0.686	0.503	0.311	1.617	-0.534	0.613	-0.871
Nlr R	0.494	0.297	1.663	-0.084	0.586	-0.143	0.543	0.311	1.746	-0.393	0.613	-0.641
Nmf L	0.250	0.298	0.839	-0.413	0.570	-0.725	0.384	0.302	1.272	-0.173	0.595	-0.291
Nmf R	0.172	0.298	0.577	-0.666	0.570	-1.168	0.482	0.302	1.596	-0.314	0.595	-0.528
Mf L	0.543	0.298	1.822	-0.432	0.570	-0.758	0.465	0.302	1.540	-0.233	0.595	-0.392
Mf R	0.266	0.298	0.893	-0.593	0.570	-1.040	0.561	0.302	1.858	-0.298	0.595	-0.501
Mnm L	0.134	0.291	0.460	-0.362	0.574	-0.631	0.641	0.311	2.061	-0.570	0.613	-0.930
Mnm R	0.011	0.289	0.038	-0.331	0.570	-0.581	0.218	0.306	0.712	-0.378	0.604	-0.626
Nm L	0.523	0.289	1.810	-0.330	0.570	-0.579	0.269	0.302	0.891	-0.147	0.595	-0.247
Nm R	0.459	0.289	1.588	-0.172	0.570	-0.302	0.127	0.304	0.418	-0.042	0.599	-0.070
Al L	-0.025	0.289	-0.087	-0.226	0.570	-0.396	0.613	0.302	2.030	-0.230	0.595	-0.387
Al R	0.365	0.289	1.263	-0.100	0.570	-0.175	0.534	0.302	1.768	-0.266	0.595	-0.447

Table B.48b continued

Landmark		35-44 years (<i>n</i> = 69)					45-54 years (<i>n</i> = 63)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Lno L	0.110	0.289	0.381	-1.119	0.570	-1.963	0.758	0.302	2.510	0.091	0.595	0.153
Lno R	0.038	0.289	0.131	-0.649	0.570	-1.139	0.418	0.302	1.384	-0.349	0.595	-0.583
Cf L	0.103	0.291	0.354	-0.496	0.574	-0.864	0.562	0.304	1.849	-0.741	0.599	-1.237
Cf R	0.354	0.289	1.225	0.002	0.570	0.004	0.509	0.302	1.685	-0.683	0.595	-1.148
Sc L	0.499	0.299	1.669	-0.480	0.590	-0.814	0.743	0.319	2.329	-0.061	0.628	-0.097
Sc R	0.623	0.295	2.112	0.085	0.582	0.146	0.637	0.319	1.997	-0.326	0.628	-0.519
Fe L	0.210	0.298	0.705	-0.400	0.570	-0.702	-0.065	0.304	-0.214	-0.426	0.599	-0.711
Fe R	0.401	0.298	1.346	-0.341	0.570	-0.598	0.092	0.302	0.305	-0.311	0.595	-0.523
Lf L	0.207	0.298	0.695	-0.559	0.570	-0.981	0.403	0.304	1.326	-0.254	0.599	-0.424
Lf R	0.405	0.298	1.359	-0.208	0.570	-0.365	0.367	0.302	1.215	-0.197	0.595	-0.331
So L	0.270	0.298	0.906	-0.535	0.570	-0.939	-0.150	0.304	-0.493	-0.314	0.599	-0.524
So R	0.357	0.298	1.198	-0.401	0.570	-0.704	-0.073	0.302	-0.242	-0.373	0.595	-0.627
Os L	-0.214	0.298	-0.718	-0.470	0.570	-0.825	0.165	0.302	0.546	-0.643	0.595	-1.081
Os R	0.113	0.298	0.379	-0.602	0.570	-1.056	0.052	0.302	0.172	-0.020	0.595	-0.034
Or L	0.343	0.298	1.151	-0.688	0.570	-1.207	0.563	0.302	1.864	-0.459	0.595	-0.771
Or R	0.406	0.298	1.362	-0.767	0.570	-1.346	0.370	0.302	1.225	-0.546	0.595	-0.918
Sor L	0.460	0.298	1.544	-0.563	0.570	-0.988	0.427	0.302	1.414	-0.326	0.595	-0.548
Sor R	0.353	0.298	1.185	-0.555	0.570	-0.974	0.399	0.302	1.321	-0.275	0.595	-0.462
Smc L	0.186	0.293	0.635	-1.053	0.578	-1.822	0.683	0.302	2.262	0.154	0.595	0.259
Smc R	0.113	0.291	0.388	-0.698	0.574	-1.216	0.264	0.304	0.868	-0.224	0.599	-0.374
Ecm L	-0.180	0.314	-0.573	-0.545	0.618	-0.882	0.477	0.337	1.415	-0.832	0.662	-1.257
Ecm R	-0.074	0.304	-0.243	-1.175	0.599	-1.962	0.091	0.347	0.262	-0.815	0.681	-1.197

Table B.48b continued

Landmark		35-44 years (<i>n</i> = 69)					45-54 years (<i>n</i> = 63)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Ft L	0.561	0.298	1.883	-0.436	0.570	-0.765	0.340	0.304	1.118	-0.311	0.599	-0.519
Ft R	0.223	0.298	0.748	-0.625	0.570	-1.096	-0.058	0.302	-0.192	-0.324	0.595	-0.545
Fmt L	0.318	0.298	1.067	-0.234	0.570	-0.411	0.373	0.302	1.235	-0.603	0.595	-1.013
Fmt R	0.481	0.298	1.614	-0.298	0.570	-0.523	0.042	0.302	0.139	-0.366	0.595	-0.615
Fmo L	0.305	0.298	1.023	-0.677	0.570	-1.188	-0.059	0.302	-0.195	-0.803	0.595	-1.350
Fmo R	0.299	0.298	1.003	-0.169	0.570	-0.296	-0.124	0.304	-0.408	-0.663	0.599	-1.107
Ec L	0.344	0.298	1.154	-0.667	0.570	-1.170	0.213	0.302	0.705	-0.640	0.595	-1.076
Ec R	0.441	0.298	1.480	-0.352	0.570	-0.618	0.339	0.302	1.123	-0.570	0.595	-0.958
Mz L	0.206	0.298	0.691	-0.425	0.570	-0.746	0.149	0.302	0.493	-0.485	0.595	-0.815
Mz R	0.113	0.298	0.379	-0.948	0.570	-1.663	0.269	0.302	0.891	-0.402	0.595	-0.676
Zm L	0.433	0.298	1.453	-0.272	0.570	-0.477	0.304	0.302	1.007	-0.441	0.595	-0.741
Zm R	0.249	0.298	0.836	-0.622	0.570	-1.091	0.169	0.304	0.556	-0.573	0.599	-0.957
Ol L	0.077	0.319	0.241	-1.099	0.628	-1.750	0.350	0.337	1.039	-0.069	0.662	-0.104
Ol R	-0.007	0.316	-0.022	-0.996	0.623	-1.599	0.236	0.330	0.715	-0.208	0.650	-0.320
Ju L	-0.107	0.295	-0.363	-0.676	0.582	-1.162	0.225	0.311	0.723	-0.704	0.613	-1.148
Ju R	0.019	0.293	0.065	-0.612	0.578	-1.059	0.382	0.304	1.257	-0.041	0.599	-0.068
Zy L	0.056	0.337	0.177	-1.024	0.662	-1.547	0.409	0.398	1.028	0.624	0.778	0.802
Zy R	0.113	0.316	0.335	-0.935	0.623	-1.501	0.337	0.378	0.892	-0.223	0.741	-0.301
Sgl L	0.160	0.337	0.475	-0.993	0.662	-1.500	0.561	0.427	1.314	-0.124	0.833	-0.149
Sgl R	0.171	0.325	0.526	-1.014	0.639	-1.587	-0.611	0.409	-1.494	0.781	0.798	0.979
Cdl L	0.421	0.357	1.179	-0.410	0.702	-0.584	0.418	0.427	0.979	-0.419	0.833	-0.503
Cdl R	0.237	0.327	0.725	-0.712	0.644	-1.106	0.044	0.421	0.105	-0.664	0.821	-0.809

**Table B.48c – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, both sexes
(55-64 years and 65-84 years)**

Landmark		55-64 years (<i>n</i> = 42)					65-84 years (<i>n</i> = 44)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.391	0.365	1.071	-0.639	0.717	-0.891	0.051	0.357	0.143	-0.244	0.702	-0.348
Sg	0.186	0.365	0.510	-0.781	0.717	-1.089	0.441	0.357	1.235	-0.298	0.702	-0.425
G	0.336	0.365	0.921	-0.409	0.717	-0.570	0.132	0.357	0.370	-0.384	0.702	-0.547
N	0.245	0.365	0.671	0.047	0.717	0.066	0.274	0.357	0.768	-0.603	0.702	-0.859
Mn	0.112	0.365	0.307	-0.383	0.717	-0.534	-0.148	0.361	-0.410	0.030	0.709	0.042
Rhi	0.067	0.365	0.184	-0.730	0.717	-1.018	-0.140	0.361	-0.388	-0.670	0.709	-0.945
Ss	0.273	0.374	0.730	-0.036	0.733	-0.049	0.148	0.365	0.405	-0.127	0.717	-0.177
Mp	0.553	0.383	1.444	0.428	0.750	0.571	0.368	0.374	0.984	-0.431	0.733	-0.588
Pr	0.296	0.441	0.671	0.376	0.858	0.438	-0.009	0.441	-0.020	-0.498	0.858	-0.580
Ids	0.014	0.464	0.030	0.178	0.902	0.197	0.095	0.536	0.177	-0.834	1.038	-0.803
Bilateral												
Nlr L	0.463	0.427	1.084	0.189	0.833	0.227	0.161	0.427	0.377	-1.139	0.821	-1.387
Nlr R	0.012	0.427	0.028	0.167	0.833	0.200	0.333	0.427	0.780	-0.974	0.821	-1.186
Nmf L	-0.136	0.365	-0.373	-0.778	0.717	-1.085	0.513	0.357	1.437	0.172	0.702	0.245
Nmf R	0.348	0.365	0.953	-0.054	0.717	-0.075	0.467	0.357	1.308	-0.289	0.702	-0.412
Mf L	0.626	0.365	1.715	0.573	0.717	0.799	-0.060	0.357	-0.168	-0.297	0.702	-0.423
Mf R	1.051	0.365	2.879	0.818	0.717	1.141	0.235	0.357	0.658	-0.206	0.702	-0.293
Mnm L	0.619	0.365	1.696	-0.058	0.717	-0.081	0.532	0.374	1.422	-0.723	0.733	-0.986
Mnm R	0.086	0.365	0.236	-1.248	0.717	-1.741	-0.324	0.369	-0.878	-0.778	0.724	-1.075
Nm L	-0.263	0.365	-0.721	-0.560	0.717	-0.781	-0.320	0.365	-0.877	-0.953	0.717	-1.329
Nm R	0.013	0.365	0.036	-1.256	0.717	-1.752	-0.036	0.361	-0.100	-0.822	0.709	-1.159
Al L	0.000	0.365	0.000	-0.181	0.717	-0.252	-0.075	0.357	-0.210	-0.687	0.702	-0.979
Al R	-0.131	0.365	-0.359	-0.728	0.717	-1.015	0.150	0.357	0.420	-0.633	0.702	-0.902

Table B.48c continued

Landmark		55-64 years (<i>n</i> = 42)					65-84 years (<i>n</i> = 44)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Lno L	0.714	0.365	1.956	-0.162	0.717	-0.226	0.258	0.357	0.723	-0.720	0.702	-1.026
Lno R	0.227	0.365	0.622	-0.838	0.717	-1.169	0.395	0.357	1.106	-0.518	0.702	-0.707
Cf L	0.438	0.383	1.144	-0.265	0.750	-0.353	0.178	0.374	0.476	-0.801	0.733	-1.093
Cf R	0.129	0.383	0.337	-0.238	0.750	-0.317	-0.065	0.374	-0.174	-0.982	0.733	-1.340
Sc L	0.812	0.434	1.871	0.316	0.845	0.374	0.542	0.427	1.269	-0.318	0.833	-0.382
Sc R	0.601	0.414	1.452	0.421	0.809	0.520	0.082	0.421	0.195	-0.637	0.821	-0.776
Fe L	0.238	0.365	0.652	-0.744	0.717	-1.038	0.484	0.357	1.356	-0.339	0.702	-0.483
Fe R	0.115	0.365	0.315	-0.160	0.717	-0.223	0.444	0.357	1.244	-0.763	0.702	-1.087
Lf L	0.160	0.365	0.438	-0.272	0.717	-0.379	0.232	0.357	0.650	-0.892	0.702	-1.271
Lf R	0.239	0.365	0.655	-0.482	0.717	-0.672	0.107	0.357	0.300	-0.578	0.702	-0.823
So L	0.260	0.365	0.712	-0.572	0.717	-0.798	0.115	0.357	0.322	-0.612	0.702	-0.872
So R	0.681	0.365	1.866	0.211	0.717	0.294	-0.086	0.357	-0.241	-0.317	0.702	-0.452
Os L	0.185	0.365	0.507	0.224	0.717	0.312	0.476	0.357	1.333	-0.283	0.702	-0.403
Os R	-0.017	0.365	-0.047	-0.867	0.717	-1.209	0.182	0.357	0.510	-0.388	0.702	-0.553
Or L	0.466	0.365	1.277	-0.796	0.717	-1.110	-0.193	0.357	-0.541	0.055	0.702	0.078
Or R	0.346	0.365	0.948	-0.266	0.717	-0.371	-0.205	0.357	-0.574	-0.651	0.702	-0.927
Sor L	0.501	0.365	1.373	-0.404	0.717	-0.563	0.285	0.357	0.798	-0.623	0.702	-0.887
Sor R	0.203	0.365	0.556	-0.815	0.717	-1.137	0.156	0.357	0.437	-0.787	0.702	-1.121
Smc L	-0.272	0.388	-0.701	-0.744	0.759	-0.980	-0.070	0.383	-0.183	-0.516	0.750	-0.688
Smc R	-0.127	0.388	-0.327	-1.023	0.759	-1.348	0.164	0.374	0.439	-0.636	0.733	-0.868
Ecm L	-0.135	0.512	-0.264	-0.873	0.992	-0.880	-0.077	0.524	-0.147	-0.434	1.014	-0.428
Ecm R	-0.397	0.464	-0.856	-0.335	0.902	-0.371	-0.198	0.550	-0.360	-0.787	1.063	-0.740

Table B.48c continued

Landmark		55-64 years (<i>n</i> = 42)					65-84 years (<i>n</i> = 44)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Ft L	0.454	0.365	1.244	-0.353	0.717	-0.492	0.283	0.357	0.793	-0.651	0.702	-0.927
Ft R	0.279	0.365	0.764	-0.500	0.717	-0.697	-0.041	0.357	-0.115	-0.801	0.702	-1.141
Fmt L	-0.012	0.365	-0.033	-0.215	0.717	-0.300	0.000	0.357	0.000	-0.454	0.702	-0.647
Fmt R	0.680	0.365	1.863	0.120	0.717	0.167	0.059	0.357	0.165	-0.659	0.702	-0.939
Fmo L	0.131	0.365	0.359	-1.120	0.717	-1.562	0.329	0.357	0.922	-0.941	0.702	-1.340
Fmo R	-0.045	0.365	-0.123	-0.355	0.717	-0.495	0.402	0.357	1.126	-0.919	0.702	-1.309
Ec L	0.432	0.365	1.184	-0.674	0.717	-0.940	0.166	0.357	0.465	-1.076	0.702	-1.533
Ec R	0.248	0.365	0.679	-0.624	0.717	-0.870	0.142	0.357	0.398	-0.597	0.702	-0.850
Mz L	-0.103	0.365	-0.282	-0.623	0.717	-0.869	-0.094	0.357	-0.263	-0.082	0.702	-0.117
Mz R	0.063	0.365	0.173	-0.449	0.717	-0.626	-0.075	0.357	-0.210	-0.495	0.702	-0.705
Zm L	-0.017	0.365	-0.047	-1.022	0.717	-1.425	0.544	0.357	1.524	-0.127	0.702	-0.181
Zm R	0.176	0.365	0.482	-0.412	0.717	-0.575	0.566	0.357	1.585	-0.438	0.702	-0.624
Ol L	-0.794	0.501	-1.585	-0.039	0.972	-0.040	-0.108	0.524	-0.206	0.096	0.972	0.099
Ol R	-0.520	0.491	-1.059	-0.922	0.953	-0.967	0.257	0.456	0.564	-0.099	0.887	-0.112
Ju L	0.088	0.409	0.215	-0.358	0.798	-0.449	-0.015	0.393	-0.038	-0.323	0.768	-0.421
Ju R	0.352	0.374	0.941	-0.542	0.733	-0.739	0.174	0.369	0.472	-0.070	0.724	-0.097
Zy L	0.469	0.481	0.975	-0.607	0.935	-0.649	0.158	0.481	0.328	-0.535	0.935	-0.572
Zy R	0.259	0.403	0.643	-0.618	0.788	-0.784	0.303	0.421	0.720	0.049	0.821	0.060
Sgl L	0.315	0.524	0.601	-0.404	0.707	-0.571	0.602	0.580	1.038	-0.897	1.121	-0.800
Sgl R	-0.298	0.456	-0.654	-1.096	0.887	-1.236	0.620	0.481	1.289	0.025	0.935	0.027
Cdl L	0.128	0.501	0.255	-0.518	0.972	-0.533	0.598	0.616	0.971	-0.202	1.191	-0.170
Cdl R	-0.066	0.464	-0.142	0.255	0.902	0.283	0.055	0.491	0.112	-0.017	0.953	-0.018

Table B.49a - Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, both sexes (BMI < 18.5)

Landmark		BMI < 18.5 (<i>n</i> = 7)				
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.792	0.794	0.997	-0.533	1.587	-0.336
Sg	1.014	0.794	1.277	-0.348	1.587	-0.219
G	-0.130	0.794	-0.164	-0.430	1.587	-0.271
N	0.376	0.794	0.474	-1.247	1.587	-0.786
Mn	1.197	0.794	1.508	-0.838	1.587	-0.528
Rhi	1.317	0.845	1.559	0.359	1.741	0.206
Ss	-0.762	0.794	-0.960	0.273	1.587	0.172
Mp	-0.818	0.794	-1.030	0.430	1.587	0.271
Pr	0.626	0.913	0.686	-0.652	2.000	-0.326
Ids	0.092	0.913	0.101	-1.041	2.000	-0.521
Bilateral						
Nlr L	0.087	0.845	0.103	-0.174	1.741	-0.100
Nlr R	0.904	0.794	1.139	-0.023	1.587	-0.014
Nmf L	-0.067	0.794	-0.084	-0.799	1.587	-0.503
Nmf R	-0.477	0.794	-0.601	-0.147	1.587	-0.093
Mf L	1.056	0.794	1.330	-0.240	1.587	-0.151
Mf R	1.294	0.794	1.630	1.413	1.587	0.890
Mnm L	-0.333	0.794	-0.419	-0.400	1.587	-0.252
Mnm R	1.192	0.794	1.501	0.544	1.587	0.343
Nm L	0.029	0.794	0.037	-0.280	1.587	-0.176
Nm R	0.758	0.794	0.955	-0.172	1.587	-0.108
Al L	0.764	0.794	0.962	0.187	1.587	0.118
Al R	1.006	0.794	1.267	-0.780	1.587	-0.491
Lno L	-1.032	0.794	-1.300	0.331	1.587	0.209
Lno R	0.265	0.794	0.334	-0.615	1.587	-0.388
Cf L	0.258	0.794	0.325	-0.751	1.587	-0.473
Cf R	0.625	0.794	0.787	-0.018	1.587	-0.011
Sc L	0.705	0.845	0.834	-0.736	1.741	-0.423
Sc R	0.868	0.845	1.027	-0.640	1.741	-0.368
Fe L	-0.339	0.794	-0.427	-0.287	1.587	-0.181
Fe R	-0.349	0.794	-0.440	-0.912	1.587	-0.575
Lf L	-0.415	0.794	-0.523	-0.125	1.587	-0.079
Lf R	-1.081	0.794	-1.361	0.076	1.587	0.048
So L	-0.531	0.794	-0.669	0.293	1.587	0.185
So R	1.308	0.794	1.647	-0.775	1.587	-0.488
Os L	0.004	0.794	0.005	-0.381	1.587	-0.240
Os R	-0.172	0.794	-0.217	-1.035	1.587	-0.652
Or L	0.450	0.794	0.567	-0.511	1.587	-0.322
Or R	0.326	0.794	0.411	-0.069	1.587	-0.043

Table B.49a continued

Landmark			BMI < 18.5 (<i>n</i> = 7)			
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Sor L	0.098	0.794	0.123	0.212	1.587	0.134
Sor R	0.361	0.794	0.455	-0.874	1.587	-0.551
Smc L	0.389	0.794	0.490	-0.841	1.587	-0.530
Smc R	-0.584	0.794	-0.736	-0.094	1.587	-0.059
Ecm L	-1.388	1.014	-1.369	-0.972	2.619	-0.371
Ecm R	1.738	0.913	1.904	-1.052	2.000	-0.526
Ft L	-0.072	0.794	-0.091	-0.357	1.587	-0.225
Ft R	-1.883	0.794	-2.372	0.056	1.587	0.035
Fmt L	0.334	0.794	0.421	-0.170	1.587	-0.107
Fmt R	0.022	0.794	0.028	-0.744	1.587	-0.469
Fmo L	0.884	0.794	1.113	0.038	1.587	0.024
Fmo R	1.218	0.794	1.534	-0.191	1.587	-0.120
Ec L	2.464	0.794	3.103	-0.219	1.587	-0.138
Ec R	1.032	0.794	1.300	-0.318	1.587	-0.200
Mz L	-0.780	0.794	-0.982	-1.305	1.587	-0.822
Mz R	0.961	0.794	1.210	-1.244	1.587	-0.784
Zm L	-0.351	0.794	-0.442	-0.387	1.587	-0.244
Zm R	0.120	0.794	0.151	-0.667	1.587	-0.420
OI L	0.428	0.913	0.469	0.074	2.000	0.037
OI R	1.245	0.845	1.473	-0.134	1.741	-0.077
Ju L	-0.023	0.794	-0.029	-0.761	1.587	-0.480
Ju R	0.011	0.794	0.014	-0.489	1.587	-0.308
Zy L	0.512	0.794	0.645	-0.780	1.587	-0.491
Zy R	0.471	0.794	0.593	0.632	1.587	0.398
Sgl L	2.264	0.794	2.851	-0.872	1.587	-0.549
Sgl R	-1.010	0.794	-1.272	-0.116	1.587	-0.073
Cdl L	-0.398	0.794	-0.501	-0.245	1.587	-0.154
Cdl R	-0.541	0.845	-0.640	-0.922	1.741	-0.530

red = significant deviation from normality

Table B.49b - Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, both sexes (18.5 > BMI < 25.0)

Landmark		18.5 > BMI < 25.0 (<i>n</i> = 160)				
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.486	0.192	2.531	0.048	0.381	0.126
Sg	0.582	0.192	3.031	0.073	0.381	0.192
G	0.167	0.192	0.870	-0.296	0.381	-0.777
N	0.141	0.192	0.734	-0.411	0.381	-1.079
Mn	0.209	0.195	1.072	-0.399	0.387	-1.031
Rhi	0.714	0.192	3.719	0.585	0.383	1.527
Ss	0.610	0.193	3.161	0.426	0.384	1.109
Mp	0.364	0.195	1.867	-0.579	0.387	-1.496
Pr	0.505	0.206	2.451	0.075	0.410	0.183
Ids	0.383	0.216	1.773	-0.088	0.428	-0.206
Bilateral						
Nlr L	0.524	0.201	2.607	0.021	0.400	0.053
Nlr R	0.641	0.201	3.189	0.027	0.399	0.068
Nmf L	0.795	0.192	4.141	0.625	0.381	1.640
Nmf R	0.973	0.192	5.068	1.112	0.381	2.919
Mf L	0.743	0.192	3.870	0.727	0.381	1.908
Mf R	0.491	0.192	2.557	-0.166	0.381	-0.436
Mnm L	0.491	0.195	2.518	0.062	0.389	0.159
Mnm R	0.341	0.194	1.758	-0.260	0.385	-0.675
Nm L	0.102	0.193	0.528	-0.197	0.384	-0.513
Nm R	0.292	0.193	1.513	-0.340	0.384	-0.885
Al L	0.251	0.192	1.307	-0.190	0.381	-0.499
Al R	0.183	0.192	0.953	-0.270	0.381	-0.709
Lno L	0.166	0.192	0.865	-0.124	0.381	-0.325
Lno R	0.275	0.192	1.432	-0.409	0.381	-1.073
Cf L	0.135	0.195	0.692	-0.390	0.387	-1.008
Cf R	0.320	0.195	1.641	-0.175	0.387	-0.452
Sc L	0.447	0.203	2.202	-0.157	0.404	-0.389
Sc R	0.404	0.203	1.990	-0.170	0.404	-0.421
Fe L	0.528	0.192	2.750	-0.295	0.383	-0.770
Fe R	0.613	0.192	3.193	0.375	0.381	0.984
Lf L	0.718	0.192	3.740	0.144	0.381	0.378
Lf R	0.519	0.192	2.703	-0.328	0.381	-0.861
So L	0.319	0.192	1.661	-0.518	0.381	-1.360
So R	0.399	0.192	2.078	-0.471	0.381	-1.236
Os L	0.041	0.192	0.214	-0.447	0.381	-1.173
Os R	0.108	0.192	0.563	-0.492	0.381	-1.291
Or L	0.457	0.192	2.380	-0.143	0.381	-0.375
Or R	0.269	0.192	1.401	-0.502	0.381	-1.318

Table B.49b continued

Landmark		18.5 > BMI < 25.0 (<i>n</i> = 160)				
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Sor L	0.322	0.192	1.677	-0.420	0.381	-1.102
Sor R	0.382	0.192	1.990	-0.291	0.381	-0.764
Smc L	0.242	0.194	1.247	-0.227	0.386	-0.588
Smc R	0.019	0.194	0.098	-0.081	0.386	-0.210
Ecm L	0.114	0.208	0.548	0.097	0.413	0.235
Ecm R	0.230	0.208	1.106	-0.649	0.413	-1.571
Ft L	0.651	0.192	3.391	0.190	0.381	0.499
Ft R	0.289	0.192	1.505	-0.256	0.381	-0.672
Fmt L	0.276	0.192	1.438	0.045	0.381	0.118
Fmt R	0.381	0.192	1.984	0.072	0.381	0.189
Fmo L	0.329	0.192	1.714	-0.350	0.381	-0.919
Fmo R	0.536	0.192	2.792	0.246	0.383	0.642
Ec L	0.715	0.192	3.724	0.345	0.381	0.906
Ec R	0.185	0.192	0.964	-0.430	0.381	-1.129
Mz L	0.057	0.192	0.297	-0.764	0.381	-2.005
Mz R	-0.047	0.192	-0.245	-0.557	0.381	-1.462
Zm L	0.285	0.192	1.484	-0.306	0.381	-0.803
Zm R	0.027	0.192	0.141	-0.295	0.381	-0.774
Ol L	0.286	0.209	1.368	-0.133	0.414	-0.321
Ol R	0.160	0.209	0.766	-0.449	0.414	-1.085
Ju L	0.217	0.197	1.102	-0.163	0.392	-0.416
Ju R	0.278	0.193	1.440	-0.105	0.384	-0.273
Zy L	0.512	0.224	2.286	-0.108	0.444	-0.243
Zy R	0.403	0.207	1.947	-0.369	0.411	-0.898
Sgl L	0.390	0.235	1.660	-0.139	0.465	-0.299
Sgl R	-0.098	0.216	-0.454	-0.106	0.428	-0.248
Cdl L	0.555	0.246	2.256	-0.184	0.488	-0.377
Cdl R	0.175	0.216	0.810	-0.178	0.428	-0.416

red = significant deviation from normality

Table B.49c - Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, both sexes (25.0 > BMI < 30.0)

Landmark		25.0 > BMI < 30.0 (n = 99)				
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.523	0.243	2.152	0.123	0.481	0.256
Sg	0.280	0.243	1.152	-0.249	0.481	-0.518
G	0.233	0.243	0.959	-0.317	0.481	-0.659
N	0.217	0.243	0.893	-0.279	0.481	-0.580
Mn	0.461	0.243	1.897	-0.183	0.481	-0.380
Rhi	0.279	0.243	1.148	-0.624	0.481	-1.297
Ss	0.067	0.244	0.275	-0.338	0.483	-0.700
Mp	0.134	0.247	0.543	-0.621	0.490	-1.267
Pr	0.502	0.261	1.923	-0.246	0.517	-0.476
Ids	0.337	0.279	1.208	-0.340	0.552	-0.616
Bilateral						
Nlr L	0.205	0.260	0.788	-0.445	0.514	-0.866
Nlr R	0.372	0.261	1.425	-0.146	0.517	-0.282
Nmf L	0.256	0.243	1.053	-0.167	0.481	-0.347
Nmf R	0.021	0.243	0.086	-0.310	0.481	-0.644
Mf L	0.645	0.243	2.654	-0.194	0.481	-0.403
Mf R	0.411	0.243	1.691	-0.580	0.481	-1.206
Mnm L	0.456	0.246	1.854	-0.617	0.488	-1.264
Mnm R	0.153	0.245	0.624	-0.262	0.485	-0.540
Nm L	0.121	0.243	0.498	-0.395	0.481	-0.821
Nm R	-0.115	0.243	-0.473	-0.246	0.481	-0.511
Al L	0.449	0.243	1.848	-0.497	0.481	-1.033
Al R	0.241	0.243	0.992	-0.438	0.481	-0.911
Lno L	0.375	0.243	1.543	-0.736	0.481	-1.530
Lno R	0.256	0.243	1.053	-0.833	0.481	-1.732
Cf L	0.335	0.247	1.356	-0.815	0.490	-1.663
Cf R	0.496	0.246	2.016	-0.028	0.488	-0.057
Sc L	0.347	0.264	1.314	-0.454	0.523	-0.868
Sc R	0.010	0.258	0.039	-0.907	0.511	-1.775
Fe L	0.102	0.244	0.418	-0.372	0.483	-0.770
Fe R	0.524	0.243	2.156	-0.037	0.481	-0.077
Lf L	0.431	0.244	1.766	0.091	0.483	0.188
Lf R	0.284	0.243	1.169	-0.157	0.481	-0.326
So L	0.461	0.244	1.889	-0.329	0.483	-0.681
So R	0.481	0.243	1.979	-0.276	0.481	-0.574
Os L	-0.022	0.243	-0.091	-0.277	0.481	-0.576
Os R	-0.077	0.243	-0.317	-0.152	0.481	-0.316
Or L	0.587	0.243	2.416	-0.292	0.481	-0.607
Or R	0.375	0.243	1.543	-0.837	0.481	-1.740

Table B.49c continued

Landmark		25.0 > BMI < 30.0 (<i>n</i> = 99)				
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Sor L	0.545	0.243	2.243	-0.295	0.481	-0.613
Sor R	0.291	0.243	1.198	-0.579	0.481	-1.204
Smc L	0.279	0.250	1.116	-0.603	0.495	-1.218
Smc R	0.360	0.250	1.440	-0.471	0.495	-0.952
Ecm L	0.157	0.287	0.547	-0.691	0.566	-1.221
Ecm R	0.137	0.281	0.488	-0.944	0.555	-1.701
Ft L	0.397	0.244	1.627	-0.206	0.483	-0.427
Ft R	0.265	0.243	1.091	-0.538	0.481	-1.119
Fmt L	0.174	0.243	0.716	-0.271	0.481	-0.563
Fmt R	0.189	0.243	0.778	-0.478	0.481	-0.994
Fmo L	0.077	0.243	0.317	-0.642	0.481	-1.335
Fmo R	-0.116	0.243	-0.477	-0.484	0.481	-1.006
Ec L	0.315	0.243	1.296	-0.410	0.481	-0.852
Ec R	0.173	0.243	0.712	-0.594	0.481	-1.235
Mz L	-0.071	0.243	-0.292	-0.333	0.481	-0.692
Mz R	0.074	0.243	0.305	-0.279	0.481	-0.580
Zm L	0.406	0.243	1.671	-0.279	0.481	-0.580
Zm R	0.132	0.244	0.541	-0.169	0.483	-0.350
Ol L	0.455	0.279	1.631	-0.349	0.552	-0.632
Ol R	0.090	0.274	0.328	-0.777	0.541	-1.436
Ju L	-0.089	0.253	-0.352	-0.421	0.500	-0.842
Ju R	0.172	0.251	0.685	0.014	0.498	0.028
Zy L	0.007	0.311	0.023	-0.332	0.613	-0.542
Zy R	0.431	0.304	1.418	-0.218	0.599	-0.364
Sgl L	-0.018	0.347	-0.052	-0.419	0.681	-0.615
Sgl R	0.192	0.327	0.587	-0.908	0.644	-1.410
Cdl L	0.025	0.333	0.075	0.184	0.656	0.280
Cdl R	0.221	0.325	0.680	-0.860	0.639	-1.346

Table B.49d - Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, both sexes (30.0 > BMI)

Landmark		30.0 > BMI (<i>n</i> = 54)				
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	-0.173	0.325	-0.532	-0.195	0.639	-0.305
Sg	-0.066	0.325	-0.203	0.680	0.639	1.064
G	0.162	0.325	0.498	0.027	0.639	0.042
N	0.352	0.325	1.083	-0.781	0.639	-1.222
Mn	-0.103	0.325	-0.317	-0.220	0.639	-0.344
Rhi	0.320	0.325	0.985	-0.595	0.639	-0.931
Ss	0.329	0.327	1.006	-0.042	0.644	-0.065
Mp	0.274	0.327	0.838	-0.496	0.644	-0.770
Pr	0.137	0.350	0.391	-0.811	0.688	-1.179
Ids	0.191	0.365	0.523	-0.941	0.717	-1.312
Bilateral						
Nlr L	0.208	0.340	0.612	-0.732	0.668	-1.096
Nlr R	0.519	0.340	1.526	-0.051	0.668	-0.076
Nmf L	0.741	0.325	2.280	0.619	0.639	0.969
Nmf R	0.226	0.325	0.695	-0.385	0.639	-0.603
Mf L	0.222	0.325	0.683	-0.387	0.639	-0.606
Mf R	0.252	0.325	0.775	-0.643	0.639	-1.006
Mnm L	0.126	0.325	0.388	-0.631	0.639	-0.987
Mnm R	0.215	0.325	0.662	-0.355	0.639	-0.556
Nm L	-0.009	0.325	-0.028	0.103	0.639	0.161
Nm R	-0.162	0.325	-0.498	-0.365	0.639	-0.571
Al L	0.551	0.325	1.695	-0.300	0.639	-0.469
Al R	0.070	0.325	0.215	-0.766	0.639	-1.199
Lno L	0.420	0.325	1.292	0.162	0.639	0.254
Lno R	0.044	0.325	0.135	0.062	0.639	0.097
Cf L	0.160	0.325	0.492	-0.405	0.639	-0.634
Cf R	0.750	0.325	2.308	0.029	0.639	0.045
Sc L	0.470	0.340	1.382	-0.192	0.668	-0.287
Sc R	0.357	0.337	1.059	-0.592	0.662	-0.894
Fe L	0.055	0.325	0.169	-0.525	0.639	-0.822
Fe R	0.085	0.325	0.262	0.089	0.639	0.139
Lf L	0.165	0.325	0.508	-0.230	0.639	-0.360
Lf R	-0.099	0.325	-0.305	-0.363	0.639	-0.568
So L	0.014	0.325	0.043	-0.735	0.639	-1.150
So R	0.036	0.325	0.111	-0.125	0.639	-0.196
Os L	-0.131	0.325	-0.403	-0.120	0.639	-0.188
Os R	0.351	0.325	1.080	-0.074	0.639	-0.116
Or L	0.268	0.325	0.825	-0.456	0.639	-0.714
Or R	0.231	0.325	0.711	-0.416	0.639	-0.651

Table B.49d continued

Landmark		30.0 > BMI (<i>n</i> = 54)				
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Sor L	0.341	0.325	1.049	-0.328	0.639	-0.513
Sor R	-0.042	0.325	-0.129	-0.255	0.639	-0.399
Smc L	0.262	0.337	0.777	0.336	0.662	0.508
Smc R	0.234	0.327	0.716	-0.216	0.644	-0.335
Ecm L	-0.381	0.393	-0.969	-0.216	0.768	-0.281
Ecm R	0.174	0.383	0.454	0.009	0.750	0.012
Ft L	0.211	0.325	0.649	0.334	0.639	0.523
Ft R	0.083	0.325	0.255	-0.654	0.639	-1.023
Fmt L	0.103	0.325	0.317	-0.085	0.639	-0.133
Fmt R	0.650	0.325	2.000	-0.080	0.639	-0.125
Fmo L	0.528	0.325	1.625	0.056	0.639	0.088
Fmo R	0.339	0.325	1.043	-0.297	0.639	-0.465
Ec L	0.304	0.325	0.935	-0.849	0.639	-1.329
Ec R	0.336	0.325	1.034	-0.183	0.639	-0.286
Mz L	0.220	0.325	0.677	-0.605	0.639	-0.947
Mz R	0.247	0.325	0.760	-0.532	0.639	-0.833
Zm L	0.019	0.325	0.058	-0.554	0.639	-0.867
Zm R	0.080	0.325	0.246	-0.534	0.639	-0.836
OI L	0.059	0.427	0.138	-0.585	0.833	-0.702
OI R	-0.567	0.388	-1.461	0.682	0.759	0.899
Ju L	-0.035	0.365	-0.096	-0.304	0.717	-0.424
Ju R	0.592	0.330	1.794	-0.207	0.650	-0.318
Zy L	-0.090	0.491	-0.183	-0.289	0.953	-0.303
Zy R	0.120	0.393	0.305	-1.052	0.768	-1.370
Sgl L	-0.204	0.501	-0.407	-0.175	0.972	-0.180
Sgl R	0.090	0.427	0.211	-0.551	0.833	-0.661
Cdl L	0.763	0.536	1.424	0.277	1.038	0.267
Cdl R	0.102	0.472	0.216	-0.533	0.918	-0.581

Table B.50a - Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, males (<24 years and 25-34 years)

Landmark		Males <24 years (<i>n</i> = 28)					Males 25-34 years (<i>n</i> = 27)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.142	0.441	0.322	-0.266	0.858	-0.310	0.316	0.448	0.705	-0.734	0.872	-0.842
Sg	0.498	0.441	1.129	-0.348	0.858	-0.406	0.204	0.448	0.455	-1.211	0.872	-1.389
G	0.591	0.441	1.340	-0.939	0.858	-1.094	0.524	0.448	1.170	-0.883	0.872	-1.013
N	-0.292	0.441	-0.662	-0.570	0.858	-0.664	0.070	0.448	0.156	-0.256	0.872	-0.294
Mn	-0.203	0.441	-0.460	-0.312	0.858	-0.364	-0.190	0.448	-0.424	-0.099	0.872	-0.114
Rhi	0.551	0.441	1.249	0.648	0.858	0.755	0.017	0.448	0.038	-0.724	0.872	-0.830
Ss	0.411	0.448	0.917	-0.321	0.872	-0.368	0.080	0.448	0.179	-0.126	0.872	-0.144
Mp	0.348	0.441	0.789	-0.367	0.858	-0.428	0.080	0.448	0.179	-0.741	0.872	-0.850
Pr	0.424	0.441	0.961	-0.796	0.858	-0.928	0.098	0.448	0.219	-1.282	0.872	-1.470
Ids	-0.110	0.441	-0.249	0.017	0.858	0.020	0.155	0.448	0.346	-0.660	0.872	-0.757
Bilateral												
Nlr L	0.038	0.441	0.086	-0.706	0.858	-0.823	-0.052	0.456	-0.114	-0.789	0.887	-0.890
Nlr R	0.013	0.441	0.029	0.134	0.858	0.156	0.537	0.448	1.199	0.358	0.872	0.411
Nmf L	0.310	0.441	0.703	-1.145	0.858	-1.334	0.424	0.448	0.946	-0.011	0.872	-0.013
Nmf R	0.190	0.441	0.431	-0.933	0.858	-1.087	0.305	0.448	0.681	-0.674	0.872	-0.773
Mf L	-0.080	0.441	-0.181	-1.392	0.858	-1.622	0.851	0.448	1.900	-0.024	0.872	-0.028
Mf R	-0.246	0.441	-0.558	-0.665	0.858	-0.775	0.712	0.448	1.589	-0.304	0.872	-0.349
Mnm L	-0.201	0.448	-0.449	-0.459	0.872	-0.526	0.246	0.448	0.549	-0.507	0.872	-0.581
Mnm R	0.561	0.441	1.272	-0.044	0.858	-0.051	0.206	0.448	0.460	0.246	0.872	0.282
Nm L	0.116	0.441	0.263	-1.076	0.858	-1.254	0.586	0.448	1.308	-0.415	0.872	-0.476
Nm R	-0.039	0.441	-0.088	-0.604	0.858	-0.704	0.598	0.448	1.335	-0.306	0.872	-0.351
Al L	0.007	0.441	0.016	-0.862	0.858	-1.005	0.569	0.448	1.270	-0.665	0.872	-0.763
Al R	-0.079	0.441	-0.179	-0.590	0.858	-0.688	0.072	0.448	0.161	-0.208	0.872	-0.239

Table B.50a continued

Landmark			Males <24 years (<i>n</i> = 28)				Males 25-34 years (<i>n</i> = 27)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Lno L	0.032	0.441	0.073	-0.666	0.858	-0.776	0.245	0.448	0.547	-0.416	0.872	-0.477
Lno R	0.372	0.441	0.844	-0.731	0.858	-0.852	0.052	0.448	0.116	-0.829	0.872	-0.951
Cf L	-0.295	0.441	-0.669	0.237	0.858	0.276	0.101	0.448	0.225	-0.888	0.872	-1.018
Cf R	-0.033	0.441	-0.075	-0.200	0.858	-0.233	0.077	0.448	0.172	-0.494	0.872	-0.567
Sc L	0.288	0.448	0.643	0.443	0.872	0.508	0.128	0.448	0.286	-1.001	0.872	-1.148
Sc R	-0.112	0.448	-0.250	-0.770	0.872	-0.883	0.169	0.448	0.377	-0.979	0.872	-1.123
Fe L	0.328	0.441	0.744	-0.804	0.858	-0.937	0.186	0.448	0.415	-0.879	0.872	-1.008
Fe R	0.726	0.441	1.646	0.082	0.858	0.096	0.244	0.448	0.545	-0.713	0.872	-0.818
Lf L	0.539	0.441	1.222	-0.900	0.858	-1.049	0.370	0.448	0.826	-1.064	0.872	-1.220
Lf R	0.580	0.441	1.315	-0.544	0.858	-0.634	0.194	0.448	0.433	-1.244	0.872	-1.427
So L	0.224	0.441	0.508	-0.506	0.858	-0.590	0.734	0.448	1.638	-0.144	0.872	-0.165
So R	0.262	0.441	0.594	-0.216	0.858	-0.252	0.334	0.448	0.746	-1.081	0.872	-1.240
Os L	0.028	0.441	0.063	-1.003	0.858	-1.169	0.295	0.448	0.658	-0.652	0.872	-0.748
Os R	0.007	0.441	0.016	-0.265	0.858	-0.309	0.041	0.448	0.092	-0.309	0.872	-0.354
Or L	-0.004	0.441	-0.009	-0.199	0.858	-0.232	0.840	0.448	1.875	-0.019	0.872	-0.022
Or R	-0.541	0.441	-1.227	-0.744	0.858	-0.867	0.169	0.448	0.377	-0.932	0.872	-1.069
Sor L	0.544	0.441	1.234	0.431	0.858	0.502	0.473	0.448	1.056	-0.909	0.872	-1.042
Sor R	0.160	0.441	0.363	-0.806	0.858	-0.939	0.526	0.448	1.174	-0.719	0.872	-0.825
Smc L	-0.299	0.441	-0.678	-0.523	0.858	-0.610	0.103	0.448	0.230	-0.927	0.872	-1.063
Smc R	0.155	0.441	0.351	-0.981	0.858	-1.143	0.001	0.448	0.002	-0.642	0.872	-0.736
Ecm L	-0.153	0.456	-0.336	-0.735	0.887	-0.829	0.610	0.448	1.362	-0.341	0.872	-0.391
Ecm R	0.013	0.448	0.029	-1.039	0.872	-1.192	-0.182	0.456	-0.399	-0.481	0.887	-0.542

Table B.50a continued

Landmark		Males <24 years (<i>n</i> = 28)					Males 25-34 years (<i>n</i> = 27)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Ft L	0.796	0.441	1.805	-0.037	0.858	-0.043	0.317	0.448	0.708	-1.055	0.872	-1.210
Ft R	0.587	0.441	1.331	-0.488	0.858	-0.569	0.204	0.448	0.455	-0.843	0.872	-0.967
Fmt L	-0.012	0.441	-0.027	-0.578	0.858	-0.674	0.055	0.448	0.123	-0.070	0.872	-0.080
Fmt R	-0.257	0.441	-0.583	0.048	0.858	0.056	0.354	0.448	0.790	-0.986	0.872	-1.131
Fmo L	0.118	0.441	0.268	-0.789	0.858	-0.920	0.238	0.448	0.531	0.294	0.872	0.337
Fmo R	-0.011	0.441	-0.025	-0.640	0.858	-0.746	0.545	0.448	1.217	-0.109	0.872	-0.125
Ec L	0.599	0.441	1.358	-0.494	0.858	-0.576	0.286	0.448	0.638	-0.613	0.872	-0.703
Ec R	0.381	0.441	0.864	-0.654	0.858	-0.762	0.224	0.448	0.500	-0.330	0.872	-0.378
Mz L	0.259	0.441	0.587	-0.671	0.858	-0.782	0.651	0.448	1.453	0.978	0.872	1.122
Mz R	-0.258	0.441	-0.585	-0.805	0.858	-0.938	0.407	0.448	0.908	1.124	0.872	1.289
Zm L	-0.105	0.441	-0.238	-0.821	0.858	-0.957	-0.033	0.448	-0.074	-0.906	0.872	-1.039
Zm R	-0.215	0.441	-0.488	-0.569	0.858	-0.663	0.465	0.448	1.038	0.291	0.872	0.334
Ol L	0.054	0.448	0.121	-0.395	0.872	-0.453	-0.192	0.464	-0.414	-0.894	0.902	-0.991
Ol R	0.254	0.448	0.567	-0.460	0.872	-0.528	-0.187	0.448	-0.417	-0.667	0.872	-0.765
Ju L	0.842	0.448	1.879	0.076	0.872	0.087	1.206	0.456	2.645	1.236	0.887	1.393
Ju R	0.861	0.441	1.952	0.108	0.858	0.126	0.065	0.448	0.145	-0.650	0.872	-0.745
Zy L	0.381	0.501	0.807	-1.085	0.972	-1.116	0.145	0.512	0.283	-0.636	0.992	-0.641
Zy R	0.807	0.472	1.576	-0.058	0.918	-0.063	0.039	0.491	0.079	-0.193	0.953	-0.203
Sgl L	0.300	0.512	0.586	-0.424	0.992	-0.427	0.454	0.580	0.783	-0.136	1.121	-0.121
Sgl R	-0.145	0.472	-0.307	-1.230	0.918	-1.340	0.133	0.491	0.271	-0.857	0.953	-0.899
Cdl L	-0.302	0.512	-0.590	-0.678	0.992	-0.683	0.323	0.580	0.557	-0.255	1.121	-0.227
Cdl R	0.147	0.687	0.214	-0.352	0.953	-0.369	-0.803	0.491	-1.635	0.829	0.953	0.870

red = significant deviation from normality

**Table B.50b – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, males
(35-44 years and 45-54 years)**

Landmark		Males 35-44 years (<i>n</i> = 33)					Males 45-54 years (<i>n</i> = 32)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
M	0.238	0.409	0.582	0.722	0.798	0.905	0.026	0.414	0.063	-0.957	0.809	-1.183
Sg	-0.070	0.409	-0.171	0.459	0.798	0.575	-0.198	0.414	-0.478	-1.054	0.809	-1.303
G	-0.018	0.409	-0.044	0.715	0.798	0.896	0.176	0.414	0.425	-0.755	0.809	-0.933
N	0.100	0.409	0.244	-0.818	0.798	-1.025	0.186	0.414	0.449	-0.799	0.809	-0.988
Mn	0.347	0.409	0.848	-0.656	0.798	-0.822	-0.311	0.414	-0.751	-0.835	0.809	-1.032
Rhi	0.244	0.409	0.597	-0.435	0.798	-0.545	0.127	0.414	0.307	-1.239	0.809	-1.532
Ss	0.469	0.409	1.147	1.819	0.798	2.279	0.122	0.414	0.295	-0.826	0.809	-1.021
Mp	-0.218	0.409	-0.533	-0.657	0.798	-0.823	-0.212	0.427	-0.496	0.063	0.833	0.076
Pr	0.322	0.414	0.778	-0.433	0.809	-0.535	0.007	0.448	0.016	-0.574	0.872	-0.658
Ids	0.004	0.421	0.010	-0.147	0.821	-0.179	0.244	0.472	0.517	0.752	0.918	0.819
Bilateral												
Nlr L	0.108	0.414	0.261	-0.121	0.809	-0.150	-0.044	0.427	-0.103	-0.218	0.833	-0.262
Nlr R	0.604	0.414	1.459	-0.008	0.809	-0.010	-0.101	0.427	-0.237	-0.009	0.833	-0.011
Nmf L	0.058	0.409	0.142	-0.337	0.798	-0.422	0.198	0.414	0.478	-0.232	0.809	-0.287
Nmf R	-0.320	0.409	-0.782	-0.270	0.798	-0.338	0.470	0.414	1.135	-0.946	0.809	-1.169
Mf L	0.288	0.409	0.704	-0.663	0.798	-0.831	0.415	0.414	1.002	-0.579	0.809	-0.716
Mf R	-0.097	0.409	-0.237	-0.950	0.798	-1.190	0.217	0.414	0.524	-0.707	0.809	-0.874
Mnm L	0.483	0.414	1.167	-0.327	0.809	-0.404	0.544	0.434	1.253	-0.702	0.845	-0.831
Mnm R	0.333	0.409	0.814	-0.696	0.798	-0.872	0.269	0.421	0.639	-0.361	0.821	-0.440
Nm L	0.417	0.409	1.020	-0.002	0.798	-0.003	0.378	0.414	0.913	-0.475	0.809	-0.587
Nm R	0.235	0.409	0.575	-0.383	0.798	-0.480	0.400	0.414	0.966	-0.593	0.809	-0.733
Al L	-0.237	0.409	-0.579	-0.168	0.798	-0.211	0.021	0.414	0.051	-0.880	0.809	-1.088
Al R	0.623	0.409	1.523	-0.203	0.798	-0.254	0.035	0.414	0.085	-0.605	0.809	-0.748

Table B.50b continued

Landmark		Males 35-44 years (<i>n</i> = 33)					Males 45-54 years (<i>n</i> = 32)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Lno L	-0.402	0.409	-0.983	-0.707	0.798	-0.886	0.394	0.414	0.952	-0.835	0.809	-1.032
Lno R	-0.419	0.409	-1.024	-0.078	0.798	-0.098	-0.059	0.414	-0.143	-1.022	0.809	-1.263
Cf L	-0.003	0.409	-0.007	1.066	0.798	1.336	0.358	0.421	0.850	-0.965	0.821	-1.175
Cf R	0.212	0.409	0.518	0.709	0.798	0.888	0.063	0.414	0.152	-0.997	0.809	-1.232
Sc L	0.292	0.409	0.714	-0.211	0.798	-0.264	0.084	0.456	0.184	-0.294	0.887	-0.331
Sc R	0.637	0.409	1.557	0.654	0.798	0.820	0.102	0.448	0.228	-0.269	0.872	-0.308
Fe L	0.267	0.409	0.653	-0.163	0.798	-0.204	-0.450	0.414	-1.087	0.209	0.809	0.258
Fe R	0.235	0.409	0.575	-0.572	0.798	-0.717	0.021	0.414	0.051	-0.559	0.809	-0.691
Lf L	-0.097	0.409	-0.237	-0.555	0.798	-0.695	0.236	0.414	0.570	-0.548	0.809	-0.677
Lf R	0.017	0.409	0.042	-0.528	0.798	-0.662	0.069	0.414	0.167	-0.149	0.809	-0.184
So L	0.093	0.409	0.227	0.000	0.798	0.000	-0.129	0.414	-0.312	0.370	0.809	0.457
So R	-0.167	0.409	-0.408	-0.053	0.798	-0.066	-0.324	0.414	-0.783	-0.110	0.809	-0.136
Os L	-0.538	0.409	-1.315	0.132	0.798	0.165	0.074	0.414	0.179	-0.543	0.809	-0.671
Os R	-0.231	0.409	-0.565	-0.587	0.798	-0.736	0.655	0.414	1.582	0.342	0.809	0.423
Or L	0.297	0.409	0.726	-0.595	0.798	-0.746	0.433	0.414	1.046	-0.539	0.809	-0.666
Or R	0.580	0.409	1.418	-0.318	0.798	-0.398	0.147	0.414	0.355	-0.746	0.809	-0.922
Sor L	0.332	0.409	0.812	-0.631	0.798	-0.791	0.411	0.414	0.993	-0.522	0.809	-0.645
Sor R	0.464	0.409	1.134	-0.189	0.798	-0.237	0.115	0.414	0.278	-0.688	0.809	-0.850
Smc L	-0.097	0.409	-0.237	-1.285	0.798	-1.610	0.182	0.414	0.440	-0.514	0.809	-0.635
Smc R	-0.148	0.414	-0.357	-0.697	0.809	-0.862	-0.225	0.414	-0.543	-0.379	0.809	-0.468
Ecm L	-0.363	0.434	-0.836	-0.598	0.845	-0.708	0.005	0.464	0.011	-1.092	0.902	-1.211
Ecm R	-0.494	0.434	-1.138	-0.515	0.845	-0.609	-0.665	0.481	-1.383	-0.558	0.935	-0.597

Table B.50b continued

Landmark		Males 35-44 years (<i>n</i> = 33)					Males 45-54 years (<i>n</i> = 32)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Ft L	0.325	0.409	0.795	-0.614	0.798	-0.769	0.487	0.414	1.176	0.235	0.809	0.290
Ft R	0.151	0.409	0.369	-0.103	0.798	-0.129	0.051	0.414	0.123	-0.483	0.809	-0.597
Fmt L	0.227	0.409	0.555	-0.841	0.798	-1.054	-0.193	0.414	-0.466	-0.464	0.809	-0.574
Fmt R	0.536	0.409	1.311	-0.823	0.798	-1.031	0.142	0.414	0.343	0.044	0.809	0.054
Fmo L	-0.011	0.409	-0.027	-0.395	0.798	-0.495	-0.175	0.414	-0.423	-0.712	0.809	-0.880
Fmo R	0.067	0.409	0.164	-0.397	0.798	-0.497	-0.251	0.421	-0.596	-0.366	0.821	-0.446
Ec L	0.272	0.409	0.665	-0.607	0.798	-0.761	0.286	0.414	0.691	-0.770	0.809	-0.952
Ec R	0.485	0.409	1.186	-0.564	0.798	-0.707	0.189	0.414	0.457	-0.702	0.809	-0.868
Mz L	0.484	0.409	1.183	-0.243	0.798	-0.305	0.308	0.414	0.744	-0.687	0.809	-0.849
Mz R	0.364	0.409	0.890	-0.699	0.798	-0.876	0.315	0.414	0.761	-0.523	0.809	-0.646
Zm L	0.465	0.409	1.137	-0.643	0.798	-0.806	0.088	0.414	0.213	-0.772	0.809	-0.954
Zm R	0.242	0.409	0.592	-0.877	0.798	-1.099	-0.067	0.414	-0.162	-0.653	0.809	-0.807
Ol L	-0.245	0.448	-0.547	-0.967	0.872	-1.109	0.034	0.481	0.071	-1.058	0.935	-1.132
Ol R	-0.193	0.441	-0.438	-0.358	0.858	-0.417	-0.062	0.481	-0.129	-0.466	0.935	-0.498
Ju L	-0.298	0.414	-0.720	-0.807	0.809	-0.998	0.020	0.427	0.047	-1.007	0.833	-1.209
Ju R	-0.146	0.414	-0.353	-0.501	0.809	-0.619	0.390	0.414	0.942	0.113	0.809	0.140
Zy L	-0.241	0.491	-0.519	-0.915	0.953	-0.960	0.647	0.597	1.084	0.198	1.154	0.172
Zy R	-0.314	0.464	-0.640	-0.631	0.902	-0.700	-0.128	0.564	-0.227	0.278	1.091	0.255
Sgl L	-0.195	0.491	-0.397	-0.871	0.953	-0.914	0.356	0.661	0.539	-0.621	1.279	-0.486
Sgl R	-0.173	0.464	-0.373	-0.697	0.902	-0.773	-0.629	0.637	-0.987	1.525	1.232	1.238
Cdl L	0.255	0.536	0.476	0.071	1.038	0.068	0.129	0.661	0.195	0.409	1.279	0.320
Cdl R	0.215	0.464	0.463	-1.161	0.902	-1.287	-0.035	0.661	-0.053	-1.207	1.279	-0.944

red = significant deviation from normality

**Table B.50c – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, males
(55-64 years and 65-84 years)**

Landmark		Males 55-64 years (<i>n</i> = 18)					Males 65-84 years (<i>n</i> = 22)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
M	0.265	0.536	0.494	-1.023	1.038	-0.986	-0.146	0.491	-0.297	-0.860	0.953	-0.902
Sg	-0.006	0.536	-0.011	-1.422	1.038	-1.370	0.391	0.491	0.796	-1.009	0.953	-1.059
G	0.015	0.536	0.028	-0.479	1.038	-0.461	-0.177	0.491	-0.360	-0.298	0.953	-0.313
N	0.105	0.536	0.196	-0.088	1.038	-0.085	0.350	0.491	0.713	-0.648	0.953	-0.680
Mn	-0.318	0.536	-0.593	0.265	1.038	0.255	0.682	0.491	1.389	0.099	0.953	0.104
Rhi	0.255	0.536	0.476	-0.821	1.038	-0.791	0.054	0.491	0.110	-1.234	0.953	-1.295
Ss	0.330	0.536	0.616	-0.654	1.038	-0.630	0.098	0.491	0.200	-0.691	0.953	-0.725
Mp	-0.009	0.550	-0.016	0.163	1.063	0.153	0.326	0.501	0.651	-1.460	0.972	-1.502
Pr	0.096	0.616	0.156	-0.527	1.191	-0.442	-0.229	0.564	-0.406	-0.267	1.091	-0.245
Ids	-0.055	0.637	-0.086	0.445	1.232	0.361	0.113	0.637	0.177	-1.472	1.232	-1.195
Bilateral												
Nlr L	0.599	0.616	0.972	-0.678	1.191	-0.569	-0.149	0.536	-0.278	-1.093	1.038	-1.053
Nlr R	0.388	0.616	0.630	-0.927	1.191	-0.778	-0.124	0.536	-0.231	-1.046	1.038	-1.008
Nmf L	-0.121	0.536	-0.226	-0.518	1.038	-0.499	0.582	0.491	1.185	-0.778	0.953	-0.816
Nmf R	0.734	0.536	1.369	-0.167	1.038	-0.161	0.396	0.491	0.807	-1.082	0.953	-1.135
Mf L	0.362	0.536	0.675	-0.188	1.038	-0.181	0.197	0.491	0.401	-0.391	0.953	-0.410
Mf R	0.794	0.536	1.481	-0.605	1.038	-0.583	0.420	0.491	0.855	-0.059	0.953	-0.062
Mnm L	0.795	0.536	1.483	-0.001	1.038	-0.001	0.621	0.512	1.213	-0.861	0.992	-0.868
Mnm R	-0.327	0.536	-0.610	-1.205	1.038	-1.161	-0.443	0.512	-0.865	-0.023	0.992	-0.023
Nm L	-0.135	0.536	-0.252	-1.169	1.038	-1.126	-0.133	0.491	-0.271	-0.961	0.953	-1.008
Nm R	-0.411	0.536	-0.767	-0.887	1.038	-0.855	0.069	0.491	0.141	-0.329	0.953	-0.345
Al L	0.462	0.536	0.862	-0.485	1.038	-0.467	-0.120	0.491	-0.244	-0.816	0.953	-0.856
Al R	-0.010	0.536	-0.019	-0.205	1.038	-0.197	-0.191	0.491	-0.389	-0.851	0.953	-0.893

Table B.50c continued

Landmark		Males 55-64 years (<i>n</i> = 18)					Males 65-84 years (<i>n</i> = 22)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Lno L	0.552	0.536	1.030	-0.599	1.038	-0.577	-0.130	0.491	-0.265	-1.297	0.953	-1.361
Lno R	0.254	0.536	0.474	-0.966	1.038	-0.931	0.371	0.491	0.756	-0.876	0.953	-0.919
Cf L	0.522	0.550	0.949	0.118	1.063	0.111	-0.133	0.512	-0.260	-0.667	0.992	-0.672
Cf R	0.116	0.564	0.206	-0.661	1.091	-0.606	-0.263	0.512	-0.514	-0.036	0.992	-0.036
Sc L	0.071	0.597	0.119	0.337	1.154	0.292	0.449	0.550	0.816	-1.078	1.063	-1.014
Sc R	-0.186	0.597	-0.312	0.549	1.154	0.476	-0.275	0.550	-0.500	0.088	1.063	0.083
Fe L	0.367	0.536	0.685	-0.378	1.038	-0.364	0.054	0.491	0.110	-0.905	0.953	-0.950
Fe R	0.360	0.536	0.672	-0.399	1.038	-0.384	-0.059	0.491	-0.120	-1.082	0.953	-1.135
Lf L	0.578	0.536	1.078	-0.138	1.038	-0.133	-0.149	0.491	-0.303	-1.146	0.953	-1.203
Lf R	0.395	0.536	0.737	-0.718	1.038	-0.692	-0.071	0.491	-0.145	-0.335	0.953	-0.352
So L	0.416	0.536	0.776	-0.320	1.038	-0.308	-0.032	0.491	-0.065	-0.494	0.953	-0.518
So R	0.852	0.536	1.590	0.507	1.038	0.488	0.056	0.491	0.114	-0.317	0.953	-0.333
Os L	-1.179	0.536	-2.200	1.902	1.038	1.832	0.332	0.491	0.676	0.217	0.953	0.228
Os R	-0.514	0.536	-0.959	0.129	1.038	0.124	0.041	0.491	0.084	-0.468	0.953	-0.491
Or L	0.430	0.536	0.802	-1.147	1.038	-1.105	-0.426	0.491	-0.868	0.083	0.953	0.087
Or R	0.325	0.536	0.606	-1.269	1.038	-1.223	-0.293	0.491	-0.597	-0.741	0.953	-0.778
Sor L	0.511	0.536	0.953	-1.116	1.038	-1.075	0.220	0.491	0.448	-0.800	0.953	-0.839
Sor R	-0.062	0.536	-0.116	-1.441	1.038	-1.388	-0.041	0.491	-0.084	-0.958	0.953	-1.005
Smc L	-0.099	0.580	-0.171	-0.798	1.121	-0.712	-0.317	0.512	-0.619	0.422	0.992	0.425
Smc R	-0.580	0.564	-1.028	-0.182	1.091	-0.167	0.018	0.501	0.036	-0.234	0.972	-0.241
Ecm L	-0.835	0.687	-1.215	0.220	1.334	0.165	-0.388	0.661	-0.587	-0.388	1.279	-0.303
Ecm R	-0.573	0.687	-0.834	-1.261	1.334	-0.945	-0.198	0.717	-0.276	-0.867	1.400	-0.619

Table B.50c continued

Landmark		Males 55-64 years (<i>n</i> = 18)					Males 65-84 years (<i>n</i> = 22)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Ft L	0.358	0.536	0.668	-0.919	1.038	-0.885	0.079	0.491	0.161	-0.638	0.953	-0.669
Ft R	0.189	0.536	0.353	-1.386	1.038	-1.335	-0.195	0.491	-0.397	-1.167	0.953	-1.225
Fmt L	0.345	0.536	0.644	-0.511	1.038	-0.492	-0.270	0.491	-0.550	-0.044	0.953	-0.046
Fmt R	0.832	0.536	1.552	-0.373	1.038	-0.359	-0.013	0.491	-0.026	-0.946	0.953	-0.993
Fmo L	-0.148	0.536	-0.276	-1.060	1.038	-1.021	-0.072	0.491	-0.147	-1.244	0.953	-1.305
Fmo R	-0.271	0.536	-0.506	-0.337	1.038	-0.325	0.289	0.491	0.589	-1.028	0.953	-1.079
Ec L	-0.181	0.536	-0.338	-0.605	1.038	-0.583	0.146	0.491	0.297	-1.106	0.953	-1.161
Ec R	0.232	0.536	0.433	-0.602	1.038	-0.580	0.468	0.491	0.953	-1.141	0.953	-1.197
Mz L	0.028	0.536	0.052	-1.559	1.038	-1.502	-0.004	0.491	-0.008	0.210	0.953	0.220
Mz R	-0.016	0.536	-0.030	-1.270	1.038	-1.224	0.035	0.491	0.071	-0.920	0.953	-0.965
Zm L	0.357	0.536	0.666	-1.217	1.038	-1.172	0.744	0.491	1.515	0.211	0.953	0.221
Zm R	-0.809	0.536	-1.509	0.096	1.038	0.092	0.921	0.491	1.876	0.536	0.953	0.562
Ol L	-0.594	0.794	-0.748	-0.540	1.587	-0.340	0.190	0.717	0.265	-1.062	1.400	-0.759
Ol R	-0.744	0.687	-1.083	-0.261	1.334	-0.196	0.772	0.637	1.212	-0.053	1.232	-0.043
Ju L	-0.251	0.597	-0.420	-0.227	1.154	-0.197	0.344	0.550	0.625	0.335	1.063	0.315
Ju R	0.387	0.550	0.704	0.411	1.063	0.387	0.239	0.501	0.477	-0.580	0.972	-0.597
Zy L	0.249	0.752	0.417	-0.679	1.481	-0.458	0.244	0.687	0.355	-0.275	1.334	-0.206
Zy R	0.062	0.597	0.068	-0.034	1.154	-0.029	-0.352	0.637	-0.553	-0.673	1.232	-0.546
Sgl L	0.418	0.913	0.458	1.982	2.000	0.991	0.016	0.794	0.020	-1.530	1.587	-0.964
Sgl R	-0.851	0.717	-1.187	-0.120	1.400	-0.086	0.395	0.752	0.525	-0.627	1.481	-0.423
Cdl L	1.473	0.794	1.855	2.462	1.587	1.551	0.784	0.845	0.928	1.406	1.741	0.808
Cdl R	0.869	0.717	1.212	-0.448	1.400	-0.320	-0.235	0.794	-0.296	-0.165	1.587	-0.104

Table B.51a - Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, females (<24 years and 25-34 years)

Landmark		Females <24 years (<i>n</i> = 18)					Females 25-34 years (<i>n</i> = 29)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
M	0.507	0.536	0.946	-0.434	1.038	-0.418	-0.059	0.434	-0.136	-0.309	0.845	-0.366
Sg	0.944	0.536	1.761	1.250	1.038	1.204	0.410	0.434	0.945	0.461	0.845	0.546
G	0.213	0.536	0.397	-0.275	1.038	-0.265	-0.495	0.434	-1.141	0.562	0.845	0.665
N	-0.060	0.536	-0.112	-1.070	1.038	-1.031	-0.257	0.434	-0.592	-0.408	0.845	-0.483
Mn	0.085	0.536	0.159	-0.722	1.038	-0.696	0.240	0.434	0.553	-0.749	0.845	-0.886
Rhi	0.413	0.536	0.771	-0.557	1.038	-0.537	0.635	0.434	1.463	0.357	0.845	0.422
Ss	-0.083	0.536	-0.155	-0.149	1.038	-0.144	0.323	0.434	0.744	0.418	0.845	0.495
Mp	-0.094	0.536	-0.175	-0.243	1.038	-0.234	0.003	0.434	0.007	-0.011	0.845	-0.013
Pr	0.612	0.536	1.142	0.540	1.038	0.520	1.669	0.441	3.785	4.168	0.858	4.858
Ids	-0.386	0.550	-0.702	-0.655	1.063	-0.616	-0.069	0.441	-0.156	-1.228	0.858	-1.431
Bilateral												
Nlr L	-0.065	0.536	-0.121	0.112	1.038	0.108	0.886	0.434	2.041	2.021	0.845	2.392
Nlr R	0.526	0.536	0.981	1.231	1.038	1.186	0.791	0.434	1.823	1.780	0.845	2.107
Nmf L	0.585	0.536	1.091	-0.641	1.038	-0.618	0.642	0.434	1.479	0.556	0.845	0.658
Nmf R	0.514	0.536	0.959	0.227	1.038	0.219	0.596	0.434	1.373	0.142	0.845	0.168
Mf L	0.786	0.536	1.466	-0.275	1.038	-0.265	0.378	0.434	0.871	-0.691	0.845	-0.818
Mf R	0.516	0.536	0.963	-0.413	1.038	-0.398	0.436	0.434	1.005	-0.340	0.845	-0.402
Mnm L	0.158	0.536	0.295	-0.692	1.038	-0.667	0.512	0.434	1.180	-0.596	0.845	-0.705
Mnm R	1.015	0.536	1.894	-0.086	1.038	-0.083	0.498	0.434	1.147	-0.417	0.845	-0.493
Nm L	1.116	0.536	2.082	2.073	1.038	1.997	0.596	0.434	1.373	1.698	0.845	2.009
Nm R	0.321	0.536	0.599	-1.158	1.038	-1.116	0.020	0.434	0.046	-0.269	0.845	-0.318
Al L	0.554	0.536	1.034	-1.000	1.038	-0.963	0.633	0.434	1.459	0.799	0.845	0.946
Al R	0.525	0.536	0.979	-0.869	1.038	-0.837	0.056	0.434	0.129	-0.649	0.845	-0.768

Table B.51a continued

Landmark		Females <24 years (<i>n</i> = 18)					Females 25-34 years (<i>n</i> = 29)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Lno L	0.584	0.536	1.090	-0.638	1.038	-0.615	-0.013	0.434	-0.030	-0.317	0.845	-0.375
Lno R	0.493	0.536	0.920	0.390	1.038	0.376	0.929	0.434	2.141	1.817	0.845	2.150
Cf L	0.061	0.536	0.114	-0.408	1.038	-0.393	0.004	0.434	0.009	-0.801	0.845	-0.948
Cf R	0.500	0.536	0.933	0.310	1.038	0.299	0.342	0.434	0.788	-0.396	0.845	-0.469
Sc L	0.315	0.536	0.588	-0.614	1.038	-0.592	-0.081	0.434	-0.187	-0.894	0.845	-1.058
Sc R	0.095	0.536	0.177	0.364	1.038	0.351	-0.026	0.434	-0.060	-0.546	0.845	-0.646
Fe L	0.588	0.550	1.069	-0.541	1.063	-0.509	0.345	0.434	0.795	-0.660	0.845	-0.781
Fe R	0.583	0.536	1.088	-0.103	1.038	-0.099	0.336	0.434	0.774	-0.245	0.845	-0.290
Lf L	-0.280	0.536	-0.522	-0.658	1.038	-0.634	0.541	0.434	1.247	-0.508	0.845	-0.601
Lf R	0.173	0.536	0.323	-0.403	1.038	-0.388	0.230	0.434	0.530	-0.702	0.845	-0.831
So L	0.260	0.536	0.485	-0.990	1.038	-0.954	-0.245	0.434	-0.565	-0.688	0.845	-0.814
So R	-0.325	0.536	-0.606	-0.168	1.038	-0.162	0.442	0.434	1.018	-0.448	0.845	-0.530
Os L	0.760	0.536	1.418	0.708	1.038	0.682	0.193	0.434	0.445	-0.213	0.845	-0.252
Os R	1.298	0.536	2.422	2.339	1.038	2.253	-0.264	0.434	-0.608	-0.527	0.845	-0.624
Or L	-0.871	0.536	-1.625	0.691	1.038	0.666	0.457	0.434	1.053	-0.588	0.845	-0.696
Or R	0.220	0.536	0.410	-0.001	1.038	-0.001	0.502	0.434	1.157	-0.557	0.845	-0.659
Sor L	-1.083	0.550	-1.969	0.322	1.063	0.303	0.546	0.434	1.258	-0.611	0.845	-0.723
Sor R	-0.152	0.536	-0.284	-0.194	1.038	-0.187	0.637	0.434	1.468	0.015	0.845	0.018
Smc L	-0.105	0.550	-0.191	-0.651	1.063	-0.612	0.522	0.434	1.203	0.039	0.845	0.046
Smc R	-0.258	0.536	-0.481	0.006	1.038	0.006	-0.283	0.434	-0.652	-0.295	0.845	-0.349
Ecm L	-0.257	0.550	-0.467	-0.346	1.063	-0.325	0.254	0.434	0.585	0.050	0.845	0.059
Ecm R	-0.364	0.536	-0.679	-0.732	1.038	-0.705	0.389	0.434	0.896	-0.147	0.845	-0.174

Table B.51a continued

Landmark		Females <24 years (<i>n</i> = 18)					Females 25-34 years (<i>n</i> = 29)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Ft L	0.194	0.536	0.362	-1.394	1.038	-1.343	0.749	0.434	1.726	0.335	0.845	0.396
Ft R	0.477	0.536	0.890	-0.387	1.038	-0.373	1.293	0.434	2.979	2.388	0.845	2.826
Fmt L	1.091	0.536	2.035	0.818	1.038	0.788	0.521	0.434	1.200	0.811	0.845	0.960
Fmt R	0.805	0.536	1.502	0.629	1.038	0.606	0.309	0.434	0.712	-0.906	0.845	-1.072
Fmo L	1.546	0.536	2.884	2.300	1.038	2.216	-0.299	0.434	-0.689	-0.126	0.845	-0.149
Fmo R	1.384	0.536	2.582	1.735	1.038	1.671	-0.078	0.434	-0.180	-0.693	0.845	-0.820
Ec L	0.159	0.536	0.297	-0.257	1.038	-0.248	0.789	0.434	1.818	-0.003	0.845	-0.004
Ec R	0.065	0.536	0.121	-0.143	1.038	-0.138	0.636	0.434	1.465	-0.208	0.845	-0.246
Mz L	0.159	0.536	0.297	-0.236	1.038	-0.227	-0.506	0.434	-1.166	0.204	0.845	0.241
Mz R	-0.096	0.536	-0.179	-0.422	1.038	-0.407	-0.453	0.434	-1.044	-0.165	0.845	-0.195
Zm L	0.741	0.536	1.382	-0.324	1.038	-0.312	0.169	0.434	0.389	0.102	0.845	0.121
Zm R	0.812	0.536	1.515	0.353	1.038	0.340	-0.226	0.434	-0.521	-0.344	0.845	-0.407
Ol L	0.412	0.550	0.749	-0.374	1.063	-0.352	0.458	0.434	1.055	0.565	0.845	0.669
Ol R	0.700	0.536	1.306	0.928	1.038	0.894	0.190	0.456	0.417	-0.879	0.887	-0.991
Ju L	0.930	0.550	1.691	0.890	1.063	0.837	0.040	0.448	0.089	0.266	0.872	0.305
Ju R	0.804	0.536	1.500	-0.105	1.038	-0.101	-0.050	0.456	-0.110	-0.256	0.887	-0.289
Zy L	0.492	0.661	0.799	-0.442	1.279	-0.346	0.573	0.491	1.167	-0.411	0.953	-0.431
Zy R	0.773	0.616	1.214	0.124	1.191	0.104	0.341	0.491	0.695	-0.919	0.953	-0.964
Sgl L	0.873	0.637	1.370	0.251	1.232	0.204	1.147	0.512	2.240	1.214	0.992	1.224
Sgl R	0.632	0.616	1.026	1.762	1.191	1.479	-0.443	0.501	-0.884	1.614	0.972	1.660
Cdl L	0.551	0.687	0.802	-0.648	1.334	-0.486	0.598	0.524	1.141	-0.602	1.014	-0.594
Cdl R	0.521	0.597	0.873	0.170	1.154	0.147	1.009	0.501	2.014	1.389	0.972	1.429

red = significant deviation from normality

**Table B.51b – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, females
(35-44 years and 45-54 years)**

Landmark		Females 35-44 years (<i>n</i> = 36)					Females 45-54 years (<i>n</i> = 31)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
M	0.390	0.393	0.992	-0.433	0.768	-0.564	0.870	0.421	2.067	0.172	0.821	0.210
Sg	0.232	0.393	0.590	-1.108	0.768	-1.443	0.522	0.421	1.240	-0.460	0.821	-0.560
G	0.383	0.393	0.975	-1.081	0.768	-1.408	0.480	0.421	1.140	-0.878	0.821	-1.069
N	-0.155	0.393	-0.394	-0.368	0.768	-0.479	0.211	0.421	0.501	-0.763	0.821	-0.929
Mn	1.188	0.393	3.023	1.578	0.768	2.055	-0.063	0.421	-0.150	-0.680	0.821	-0.828
Rhi	1.036	0.398	2.603	0.257	0.778	0.330	-0.283	0.421	-0.672	-0.637	0.821	-0.776
Ss	0.128	0.393	0.326	-0.526	0.768	-0.685	0.826	0.421	1.962	0.775	0.821	0.944
Mp	0.891	0.393	2.267	0.312	0.768	0.406	1.411	0.421	3.352	3.229	0.821	3.933
Pr	0.646	0.427	1.513	-0.077	0.833	-0.092	1.696	0.441	3.846	3.390	0.858	3.951
Ids	0.339	0.448	0.757	0.006	0.872	0.007	0.584	0.491	1.189	-0.446	0.953	-0.468
Bilateral												
Nlr L	0.296	0.409	0.724	0.133	0.798	0.167	0.975	0.434	2.247	1.404	0.845	1.662
Nlr R	0.531	0.409	1.298	0.212	0.798	0.266	0.854	0.434	1.968	0.217	0.845	0.257
Nmf L	0.167	0.393	0.425	-0.713	0.768	-0.928	0.196	0.421	0.466	-0.432	0.821	-0.526
Nmf R	0.794	0.393	2.020	0.935	0.768	1.217	0.463	0.421	1.100	-0.276	0.821	-0.336
Mf L	0.950	0.393	2.417	0.685	0.768	0.892	0.670	0.421	1.591	0.585	0.821	0.713
Mf R	0.820	0.393	2.087	1.089	0.768	1.418	0.701	0.421	1.665	0.475	0.821	0.579
Mnm L	0.200	0.393	0.509	-0.636	0.768	-0.828	0.754	0.427	1.766	-0.388	0.833	-0.466
Mnm R	-0.072	0.393	-0.183	-0.352	0.768	-0.458	0.246	0.427	0.576	-0.293	0.833	-0.352
Nm L	0.783	0.393	1.992	-0.119	0.768	-0.155	0.023	0.421	0.055	-0.522	0.821	-0.636
Nm R	0.456	0.393	1.160	-0.026	0.768	-0.034	0.165	0.427	0.386	0.271	0.833	0.325
Al L	0.185	0.393	0.471	0.353	0.768	0.460	1.058	0.421	2.513	2.879	0.821	3.507
Al R	0.547	0.393	1.392	0.156	0.768	0.203	0.803	0.421	1.907	0.786	0.821	0.957

Table B.51b continued

Landmark			Females 35-44 years (<i>n</i> = 36)				Females 45-54 years (<i>n</i> = 31)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Lno L	0.530	0.393	1.349	-0.695	0.768	-0.905	0.662	0.421	1.572	1.225	0.821	1.492
Lno R	0.217	0.393	0.552	-0.707	0.768	-0.921	-0.219	0.421	-0.520	-0.065	0.821	-0.079
Cf L	0.606	0.398	1.523	-0.425	0.778	-0.546	0.912	0.421	2.166	-0.042	0.821	-0.051
Cf R	0.783	0.393	1.992	0.584	0.768	0.760	0.985	0.421	2.340	0.839	0.821	1.022
Sc L	1.533	0.421	3.641	3.976	0.821	4.843	1.788	0.427	4.187	5.911	0.833	7.096
Sc R	1.599	0.409	3.910	4.725	0.798	5.921	1.280	0.434	2.949	3.013	0.845	3.566
Fe L	0.271	0.393	0.690	-0.687	0.768	-0.895	-0.054	0.427	-0.126	-0.461	0.833	-0.553
Fe R	0.571	0.393	1.453	0.271	0.768	0.353	-0.386	0.421	-0.917	-1.036	0.821	-1.262
Lf L	0.072	0.393	0.183	-0.979	0.768	-1.275	0.724	0.427	1.696	0.916	0.833	1.100
Lf R	0.666	0.393	1.695	1.381	0.768	1.798	0.260	0.421	0.618	-0.790	0.821	-0.962
So L	0.493	0.393	1.254	-0.683	0.768	-0.889	-0.055	0.427	-0.129	-0.720	0.833	-0.864
So R	0.985	0.393	2.506	1.078	0.768	1.404	0.162	0.421	0.385	-0.184	0.821	-0.224
Os L	0.041	0.393	0.104	-0.013	0.768	-0.017	0.564	0.421	1.340	-0.097	0.821	-0.118
Os R	0.138	0.393	0.351	-0.270	0.768	-0.352	0.158	0.421	0.375	-0.583	0.821	-0.710
Or L	0.395	0.393	1.005	-0.701	0.768	-0.913	0.676	0.421	1.606	-0.353	0.821	-0.430
Or R	0.203	0.393	0.517	-1.444	0.768	-1.880	0.555	0.421	1.318	-0.177	0.821	-0.216
Sor L	0.606	0.393	1.542	-0.317	0.768	-0.413	0.441	0.421	1.048	0.061	0.821	0.074
Sor R	0.363	0.393	0.924	-0.788	0.768	-1.026	0.777	0.421	1.846	0.852	0.821	1.038
Smc L	0.561	0.403	1.392	-0.370	0.788	-0.470	1.483	0.421	3.523	2.413	0.821	2.939
Smc R	0.536	0.393	1.364	-0.368	0.768	-0.479	0.854	0.427	2.000	1.622	0.833	1.947
Ecm L	0.043	0.434	0.099	-0.160	0.845	-0.189	1.021	0.464	2.200	0.460	0.902	0.510
Ecm R	0.358	0.409	0.875	-1.094	0.798	-1.371	0.767	0.472	1.625	0.819	0.918	0.892

Table B.51b continued

Landmark		Females 35-44 years (<i>n</i> = 36)					Females 45-54 years (<i>n</i> = 31)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Ft L	1.279	0.393	3.254	1.289	0.768	1.678	0.536	0.427	1.255	-0.456	0.833	-0.547
Ft R	0.640	0.393	1.628	-0.410	0.768	-0.534	0.161	0.421	0.382	-0.474	0.821	-0.577
Fmt L	0.565	0.393	1.438	0.915	0.768	1.191	1.020	0.421	2.423	0.450	0.821	0.548
Fmt R	0.433	0.393	1.102	-0.171	0.768	-0.223	0.075	0.421	0.178	-0.663	0.821	-0.808
Fmo L	0.526	0.393	1.338	-0.749	0.768	-0.975	0.046	0.421	0.109	-0.760	0.821	-0.926
Fmo R	0.076	0.393	0.193	-0.280	0.768	-0.365	-0.080	0.421	-0.190	-0.900	0.821	-1.096
Ec L	0.410	0.393	1.043	-0.704	0.768	-0.917	0.045	0.421	0.107	-0.699	0.821	-0.851
Ec R	0.238	0.393	0.606	-0.373	0.768	-0.486	0.475	0.421	1.128	-0.209	0.821	-0.255
Mz L	-0.142	0.393	-0.361	-0.720	0.768	-0.938	0.459	0.421	1.090	-0.349	0.821	-0.425
Mz R	-0.102	0.393	-0.260	-0.927	0.768	-1.207	0.437	0.421	1.038	-0.401	0.821	-0.488
Zm L	0.267	0.393	0.679	-0.235	0.768	-0.306	0.469	0.421	1.114	0.310	0.821	0.378
Zm R	0.303	0.393	0.771	-0.356	0.768	-0.464	0.435	0.427	1.019	-0.149	0.833	-0.179
Ol L	0.697	0.434	1.606	-0.269	0.845	-0.318	0.607	0.448	1.355	2.194	0.872	2.516
Ol R	0.767	0.434	1.767	-0.013	0.845	-0.015	0.377	0.434	0.869	0.802	0.845	0.949
Ju L	0.062	0.403	0.154	-0.557	0.788	-0.707	0.557	0.434	1.283	-0.162	0.845	-0.192
Ju R	0.208	0.398	0.523	-0.676	0.778	-0.869	0.392	0.427	0.918	-0.004	0.833	-0.005
Zy L	0.378	0.441	0.913	-0.796	0.858	-0.928	0.503	0.501	1.004	1.236	0.972	1.272
Zy R	0.382	0.414	0.866	-0.654	0.809	-0.808	0.451	0.481	0.938	-0.481	0.935	-0.514
Sgl L	0.529	0.441	1.200	-0.519	0.858	-0.605	0.177	0.524	0.338	-1.278	1.014	-1.260
Sgl R	0.652	0.434	1.502	-0.484	0.845	-0.573	-0.390	0.501	-0.778	1.150	0.972	1.183
Cdl L	0.774	0.456	1.697	0.138	0.887	0.156	0.785	0.524	1.498	0.291	1.014	0.287
Cdl R	0.658	0.441	1.492	0.064	0.858	0.075	-0.015	0.512	-0.029	-0.988	0.992	-0.996

red = significant deviation from normality

**Table B.51c – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, females
(55-64 years and 65-84 years)**

Landmark		Females 55-64 years (<i>n</i> = 24)					Females 65-84 years (<i>n</i> = 22)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
M	0.581	0.472	1.231	-0.139	0.918	-0.151	-0.455	0.491	-0.927	0.257	0.953	0.270
Sg	0.199	0.472	0.422	-0.545	0.918	-0.594	0.082	0.491	0.167	0.297	0.953	0.312
G	0.608	0.472	1.288	0.132	0.918	0.144	0.518	0.491	1.055	-1.155	0.953	-1.212
N	0.578	0.472	1.225	1.426	0.918	1.553	0.343	0.491	0.699	-0.719	0.953	-0.754
Mn	0.130	0.472	0.275	-0.358	0.918	-0.390	-0.541	0.501	-1.080	-1.053	0.972	-1.083
Rhi	0.006	0.472	0.013	-1.162	0.918	-1.266	0.204	0.501	0.407	-0.668	0.972	-0.687
Ss	-0.050	0.491	-0.102	-0.015	0.953	-0.016	-0.053	0.512	-0.104	-0.808	0.992	-0.815
Mp	-0.271	0.501	-0.541	0.275	0.972	0.283	-0.064	0.524	-0.122	-0.783	1.014	-0.772
Pr	-1.278	0.580	-2.203	3.269	1.121	2.916	-0.169	0.637	-0.265	-0.965	1.232	-0.783
Ids	-0.936	0.616	-1.519	3.350	1.191	2.813	-0.848	0.845	-1.004	0.420	1.741	0.241
Bilateral												
Nlr L	0.379	0.550	0.689	1.324	1.063	1.246	1.088	0.616	1.766	0.871	1.191	0.731
Nlr R	-0.337	0.550	-0.613	0.191	1.063	0.180	0.752	0.616	1.221	0.159	1.191	0.134
Nmf L	0.485	0.472	1.028	-0.251	0.918	-0.273	-0.227	0.491	-0.462	-0.602	0.953	-0.632
Nmf R	0.394	0.472	0.835	0.007	0.918	0.008	0.147	0.491	0.299	-0.054	0.953	-0.057
Mf L	-0.062	0.472	-0.131	-0.115	0.918	-0.125	-0.327	0.491	-0.666	0.067	0.953	0.070
Mf R	0.598	0.472	1.267	0.617	0.918	0.672	0.012	0.491	0.024	-0.180	0.953	-0.189
Mnm L	0.418	0.472	0.886	-0.811	0.918	-0.883	0.481	0.512	0.939	-0.531	0.992	-0.535
Mnm R	0.285	0.472	0.604	-1.072	0.918	-1.168	-0.218	0.501	-0.435	-1.180	0.972	-1.214
Nm L	0.056	0.472	0.119	-0.713	0.918	-0.777	-0.399	0.512	-0.779	-1.190	0.992	-1.200
Nm R	0.466	0.472	0.987	-0.963	0.918	-1.049	-0.159	0.501	-0.317	-1.113	0.972	-1.145
Al L	0.237	0.472	0.502	-0.548	0.918	-0.597	-0.131	0.491	-0.267	-0.594	0.953	-0.623
Al R	0.050	0.472	0.106	-1.105	0.918	-1.204	0.360	0.491	0.733	-0.669	0.953	-0.702

Table B.51c continued

Landmark		Females 55-64 years (<i>n</i> = 24)					Females 65-84 years (<i>n</i> = 22)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Lno L	0.906	0.472	1.919	0.425	0.918	0.463	0.843	0.491	1.717	1.145	0.953	1.201
Lno R	0.201	0.472	0.426	-0.816	0.918	-0.889	0.434	0.491	0.884	0.080	0.953	0.084
Cf L	0.391	0.501	0.780	-0.452	0.972	-0.465	0.643	0.512	1.256	-0.016	0.992	-0.016
Cf R	-0.107	0.491	-0.218	0.147	0.953	0.154	0.667	0.512	1.303	-0.460	0.992	-0.464
Sc L	0.781	0.580	1.347	1.491	1.121	1.330	0.507	0.616	0.823	0.351	1.191	0.295
Sc R	0.172	0.536	0.321	0.394	1.038	0.380	-0.056	0.597	-0.094	-1.096	1.154	-0.950
Fe L	0.532	0.472	1.127	-0.691	0.918	-0.753	0.769	0.491	1.566	1.634	0.953	1.715
Fe R	0.413	0.472	0.875	0.225	0.918	0.245	1.029	0.491	2.096	0.949	0.953	0.996
Lf L	0.112	0.472	0.237	-0.948	0.918	-1.033	0.409	0.491	0.833	-0.929	0.953	-0.975
Lf R	0.414	0.472	0.877	-0.284	0.918	-0.309	0.309	0.491	0.629	-0.417	0.953	-0.438
So L	0.179	0.472	0.379	-0.743	0.918	-0.809	0.043	0.491	0.088	-0.998	0.953	-1.047
So R	0.692	0.472	1.466	0.288	0.918	0.314	0.125	0.491	0.255	-0.328	0.953	-0.344
Os L	0.686	0.472	1.453	0.793	0.918	0.864	0.098	0.491	0.200	0.837	0.953	0.878
Os R	0.417	0.472	0.883	-0.265	0.918	-0.289	0.466	0.491	0.949	-0.254	0.953	-0.267
Or L	0.456	0.472	0.966	-0.504	0.918	-0.549	0.328	0.491	0.668	-0.406	0.953	-0.426
Or R	0.414	0.472	0.877	0.384	0.918	0.418	0.092	0.491	0.187	-0.891	0.953	-0.935
Sor L	0.506	0.472	1.072	0.379	0.918	0.413	0.397	0.491	0.809	-0.243	0.953	-0.255
Sor R	0.411	0.472	0.871	0.024	0.918	0.026	0.509	0.491	1.037	-0.522	0.953	-0.548
Smc L	-0.480	0.491	-0.978	-0.851	0.953	-0.893	0.065	0.536	0.121	-1.484	1.038	-1.430
Smc R	0.330	0.501	0.659	-0.777	0.972	-0.799	0.269	0.524	0.513	-1.004	1.014	-0.990
Ecm L	0.188	0.687	0.274	-0.949	1.334	-0.711	-0.056	0.752	-0.074	-0.717	1.481	-0.484
Ecm R	-0.242	0.580	-0.417	0.087	1.121	0.078	-0.554	0.752	-0.737	-0.755	1.481	-0.510

Table B.51c continued

Landmark		Females 55-64 years (<i>n</i> = 24)					Females 65-84 years (<i>n</i> = 22)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Ft L	0.680	0.472	1.441	0.528	0.918	0.575	0.322	0.491	0.656	-0.817	0.953	-0.857
Ft R	0.035	0.472	0.074	-0.437	0.918	-0.476	-0.013	0.491	-0.026	-0.361	0.953	-0.379
Fmt L	0.005	0.472	0.011	-0.422	0.918	-0.460	0.282	0.491	0.574	-0.526	0.953	-0.552
Fmt R	0.526	0.472	1.114	-0.309	0.918	-0.337	0.033	0.491	0.067	-0.248	0.953	-0.260
Fmo L	0.255	0.472	0.540	-1.152	0.918	-1.255	0.729	0.491	1.485	-0.342	0.953	-0.359
Fmo R	0.148	0.472	0.314	0.017	0.918	0.019	0.539	0.491	1.098	-0.735	0.953	-0.771
Ec L	1.031	0.472	2.184	0.431	0.918	0.469	0.198	0.491	0.403	-1.014	0.953	-1.064
Ec R	0.531	0.472	1.125	-0.299	0.918	-0.326	-0.230	0.491	-0.468	-0.359	0.953	-0.377
Mz L	-0.132	0.472	-0.280	0.216	0.918	0.235	-0.127	0.491	-0.259	0.006	0.953	0.006
Mz R	-0.139	0.472	-0.294	-0.109	0.918	-0.119	0.142	0.491	0.289	-0.235	0.953	-0.247
Zm L	-0.312	0.472	-0.661	-0.572	0.918	-0.623	0.397	0.491	0.809	-0.215	0.953	-0.226
Zm R	0.057	0.472	0.121	-1.054	0.918	-1.148	0.284	0.491	0.578	-0.834	0.953	-0.875
Ol L	-0.726	0.597	-1.216	-0.583	1.154	-0.505	-0.323	0.687	-0.470	0.457	1.334	0.343
Ol R	-0.097	0.637	-0.152	-1.526	1.232	-1.239	0.058	0.597	0.097	-0.813	1.154	-0.705
Ju L	0.465	0.524	0.887	-0.699	1.014	-0.689	-0.291	0.524	-0.555	-0.041	1.014	-0.040
Ju R	0.389	0.481	0.809	-1.113	0.935	-1.190	0.327	0.512	0.639	0.658	0.992	0.663
Zy L	0.650	0.580	1.270	-0.252	1.121	-0.225	-0.117	0.616	-0.190	-1.156	1.191	-0.971
Zy R	0.348	0.512	0.583	-0.943	0.992	-0.951	0.796	0.524	1.519	0.447	1.014	0.441
Sgl L	0.577	0.597	0.966	0.006	1.154	0.005	1.366	0.752	1.816	0.663	1.481	0.448
Sgl R	-0.085	0.550	-0.155	-1.138	1.063	-1.071	0.695	0.580	1.198	0.782	1.121	0.698
Cdl L	0.591	0.597	0.990	-0.373	1.154	-0.323	0.173	0.794	0.218	-0.903	1.587	-0.569
Cdl R	-0.305	0.564	-0.541	-0.310	1.091	-0.284	0.134	0.580	0.231	0.805	1.121	0.718

red = significant deviation from normality

Table B.52a - Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, females (BMI < 18.5)

Landmark		Females BMI < 18.5 (n = 20)				
Unilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
M	-0.343	0.913	-0.376	-3.043	2.000	-1.522
Sg	0.756	0.913	0.828	0.129	2.000	0.065
G	0.141	0.913	0.154	-0.985	2.000	-0.493
N	-0.032	0.913	-0.035	-1.808	2.000	-0.904
Mn	0.568	0.913	0.622	-1.770	2.000	-0.885
Rhi	1.549	1.014	1.528	2.792	2.619	1.066
Ss	-0.637	0.913	-0.698	0.131	2.000	0.066
Mp	-0.508	0.913	-0.556	-0.484	2.000	-0.242
Pr	-1.627	1.225	-1.328			
Ids	-1.220	1.225	-0.996			
Bilateral						
Nlr L	-1.158	1.014	-1.142	0.430	2.619	0.164
Nlr R	0.546	0.913	0.598	-2.705	2.000	-1.353
Nmf L	0.590	0.913	0.646	-2.550	2.000	-1.275
Nmf R	0.025	0.913	0.027	-2.043	2.000	-1.022
Mf L	-0.121	0.913	-0.133	-0.648	2.000	-0.324
Mf R	1.508	0.913	1.652	2.501	2.000	1.251
Mnm L	0.534	0.913	0.585	-2.379	2.000	-1.190
Mnm R	-0.060	0.913	-0.066	-1.046	2.000	-0.523
Nm L	0.516	0.913	0.565	-3.227	2.000	-1.614
Nm R	0.348	0.913	0.381	-2.608	2.000	-1.304
Al L	0.362	0.913	0.396	-2.073	2.000	-1.037
Al R	1.079	0.913	1.182	0.311	2.000	0.156
Lno L	-0.724	0.913	-0.793	-0.153	2.000	-0.077
Lno R	0.189	0.913	0.207	0.191	2.000	0.096
Cf L	0.342	0.913	0.375	-2.470	2.000	-1.235
Cf R	-0.122	0.913	-0.134	-2.247	2.000	-1.124
Sc L	0.677	0.913	0.742	-1.970	2.000	-0.985
Sc R	0.543	0.913	0.595	-3.008	2.000	-1.504
Fe L	0.227	0.913	0.249	-0.798	2.000	-0.399
Fe R	0.029	0.913	0.032	-1.763	2.000	-0.882
Lf L	-0.766	0.913	-0.839	0.090	2.000	0.045
Lf R	-0.905	0.913	-0.991	-0.145	2.000	-0.073
So L	-0.650	0.913	-0.712	-1.105	2.000	-0.553
So R	0.344	0.913	0.377	-0.576	2.000	-0.288
Os L	0.105	0.913	0.115	-1.239	2.000	-0.620
Os R	0.057	0.913	0.062	-2.251	2.000	-1.126
Or L	0.522	0.913	0.572	-1.075	2.000	-0.538
Or R	0.257	0.913	0.281	-0.166	2.000	-0.083

Table B.52a continued

Landmark		Females BMI < 18.5 (<i>n</i> = 20)				
Bilateral	Skewness	St.Error	z -score	Kurtosis	St. Error	z -score
Sor L	0.102	0.913	0.112	0.241	2.000	0.121
Sor R	0.533	0.913	0.584	-0.853	2.000	-0.427
Smc L	-0.527	0.913	-0.577	-2.927	2.000	-1.464
Smc R	-0.564	0.913	-0.618	-1.416	2.000	-0.708
Ecm L	1.093	1.225	0.892			
Ecm R	1.659	1.014	1.636	2.847	2.619	1.087
Ft L	-0.197	0.913	-0.216	-0.577	2.000	-0.289
Ft R	-0.181	0.913	-0.198	0.121	2.000	0.061
Fmt L	0.435	0.913	0.476	-2.306	2.000	-1.153
Fmt R	-0.106	0.913	-0.116	-0.636	2.000	-0.318
Fmo L	0.333	0.913	0.365	-2.037	2.000	-1.019
Fmo R	0.138	0.913	0.151	-1.136	2.000	-0.568
Ec L	0.589	0.913	0.645	-2.602	2.000	-1.301
Ec R	-0.159	0.913	-0.174	0.143	2.000	0.072
Mz L	-1.073	0.913	-1.175	0.613	2.000	0.307
Mz R	1.966	0.913	2.153	4.072	2.000	2.036
Zm L	0.598	0.913	0.655	-2.874	2.000	-1.437
Zm R	0.355	0.913	0.389	-2.675	2.000	-1.338
Ol L	1.372	1.225	1.120			
Ol R	1.541	1.014	1.520	2.126	2.619	0.812
Ju L	0.259	0.913	0.284	-2.535	2.000	-1.268
Ju R	0.003	0.913	0.003	-2.204	2.000	-1.102
Zy L	0.595	0.913	0.652	-3.107	2.000	-1.554
Zy R	0.759	0.913	0.831	-2.406	2.000	-1.203
Sgl L	-0.607	0.913	-0.665	-0.927	2.000	-0.464
Sgl R	-0.777	0.913	-0.851	0.166	2.000	0.083
Cdl L	-0.570	0.913	-0.624	-1.303	2.000	-0.652
Cdl R	0.214	1.014	0.211	-0.928	2.619	-0.354

red = significant deviation from normality

**Table B.52b – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, males and females
(18.5 > BMI < 25.0)**

Landmark		Males 18.5 > BMI < 25.0 (<i>n</i> = 68)					Females 18.5 > BMI < 25.0 (<i>n</i> = 92)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.289	0.291	0.993	-0.366	0.574	-0.638	0.183	0.251	0.729	-0.496	0.498	-0.996
Sg	0.493	0.291	1.694	0.371	0.574	0.646	0.664	0.251	2.645	-0.132	0.498	-0.265
G	0.312	0.291	1.072	-0.263	0.574	-0.458	0.065	0.251	0.259	-0.234	0.498	-0.470
N	-0.120	0.291	-0.412	-0.304	0.574	-0.530	0.095	0.251	0.378	-0.397	0.498	-0.797
Mn	-0.003	0.295	-0.010	-0.580	0.582	-0.997	0.228	0.255	0.894	-0.126	0.506	-0.249
Rhi	0.644	0.291	2.213	0.687	0.574	1.197	0.615	0.253	2.431	-0.158	0.500	-0.316
Ss	0.623	0.291	2.141	0.337	0.574	0.587	0.353	0.254	1.390	-0.407	0.503	-0.809
Mp	-0.046	0.293	-0.157	-0.302	0.578	-0.522	0.327	0.257	1.272	-0.442	0.508	-0.870
Pr	0.539	0.299	1.803	-0.373	0.590	-0.632	0.312	0.279	1.118	-0.129	0.552	-0.234
Ids	0.299	0.309	0.968	-0.328	0.608	-0.539	0.133	0.295	0.451	-0.606	0.582	-1.041
Bilateral												
Nlr L	0.364	0.297	1.226	0.025	0.586	0.043	-0.091	0.269	-0.338	0.062	0.532	0.117
Nlr R	0.340	0.295	1.153	-0.037	0.582	-0.064	0.197	0.269	0.732	-0.290	0.532	-0.545
Nmf L	0.570	0.291	1.959	-0.072	0.574	-0.125	0.320	0.251	1.275	-0.489	0.498	-0.982
Nmf R	0.731	0.291	2.512	0.093	0.574	0.162	0.355	0.251	1.414	-0.487	0.498	-0.978
Mf L	0.585	0.291	2.010	0.033	0.574	0.057	0.284	0.251	1.131	-0.145	0.498	-0.291
Mf R	0.248	0.291	0.852	-0.675	0.574	-1.176	0.185	0.251	0.737	-0.699	0.498	-1.404
Mnm L	0.637	0.299	2.130	0.026	0.590	0.044	0.250	0.254	0.984	-0.504	0.503	-1.002
Mnm R	0.318	0.293	1.085	-0.302	0.578	-0.522	0.320	0.254	1.260	-0.276	0.503	-0.549
Nm L	0.358	0.291	1.230	-0.400	0.574	-0.697	0.174	0.254	0.685	-0.216	0.503	-0.429
Nm R	0.390	0.291	1.340	-0.403	0.574	-0.702	0.361	0.254	1.421	-0.367	0.503	-0.730
Al L	0.507	0.291	1.742	0.080	0.574	0.139	0.218	0.251	0.869	-0.442	0.498	-0.888
Al R	0.276	0.291	0.948	-0.356	0.574	-0.620	0.311	0.251	1.239	-0.205	0.498	-0.412

Table B.52b continued

Landmark		Males 18.5 > BMI < 25.0 (<i>n</i> = 68)					Females 18.5 > BMI < 25.0 (<i>n</i> = 92)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Lno L	0.197	0.291	0.677	-0.454	0.574	-0.791	-0.058	0.251	-0.231	-0.275	0.498	-0.552
Lno R	0.031	0.291	0.107	-0.723	0.574	-1.260	0.234	0.251	0.932	-0.165	0.498	-0.331
Cf L	0.316	0.293	1.078	-0.425	0.578	-0.735	0.258	0.257	1.004	-0.462	0.508	-0.909
Cf R	0.206	0.293	0.703	-0.214	0.578	-0.370	0.231	0.257	0.899	-0.343	0.508	-0.675
Sc L	0.384	0.299	1.284	0.161	0.590	0.273	0.355	0.272	1.305	-0.419	0.538	-0.779
Sc R	0.388	0.299	1.298	-0.083	0.590	-0.141	0.269	0.271	0.993	-0.194	0.535	-0.363
Fe L	0.337	0.291	1.158	-0.417	0.574	-0.726	0.601	0.253	2.375	-0.352	0.500	-0.704
Fe R	0.626	0.291	2.151	-0.080	0.574	-0.139	0.186	0.251	0.741	-0.597	0.498	-1.199
Lf L	0.601	0.291	2.065	-0.329	0.574	-0.573	0.557	0.251	2.219	-0.290	0.498	-0.582
Lf R	0.427	0.291	1.467	-0.519	0.574	-0.904	0.602	0.251	2.398	-0.192	0.498	-0.386
So L	0.146	0.291	0.502	-0.736	0.574	-1.282	0.430	0.251	1.713	-0.200	0.498	-0.402
So R	0.200	0.291	0.687	-0.959	0.574	-1.671	0.383	0.251	1.526	-0.116	0.498	-0.233
Os L	0.190	0.291	0.653	-0.480	0.574	-0.836	0.204	0.251	0.813	-0.457	0.498	-0.918
Os R	-0.200	0.291	-0.687	-0.148	0.574	-0.258	0.240	0.251	0.956	-0.280	0.498	-0.562
Or L	0.585	0.291	2.010	-0.232	0.574	-0.404	0.425	0.251	1.693	0.104	0.498	0.209
Or R	0.431	0.291	1.481	-0.648	0.574	-1.129	0.134	0.251	0.534	-0.310	0.498	-0.622
Sor L	0.721	0.291	2.478	-0.187	0.574	-0.326	0.005	0.251	0.020	-0.335	0.498	-0.673
Sor R	0.672	0.291	2.309	-0.327	0.574	-0.570	-0.055	0.251	-0.219	-0.577	0.498	-1.159
Smc L	0.187	0.291	0.643	-0.146	0.574	-0.254	0.353	0.257	1.374	-0.383	0.508	-0.754
Smc R	-0.048	0.291	-0.165	0.057	0.574	0.099	0.077	0.257	0.300	-0.136	0.508	-0.268
Ecm L	0.240	0.304	0.789	-0.670	0.599	-1.119	0.180	0.279	0.645	0.330	0.552	0.598
Ecm R	0.067	0.309	0.217	-0.611	0.608	-1.005	0.406	0.276	1.471	-0.524	0.545	-0.961

Table B.52b continued

Landmark		Males 18.5 > BMI < 25.0 (<i>n</i> = 68)					Females 18.5 > BMI < 25.0 (<i>n</i> = 92)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Ft L	0.706	0.291	2.426	0.019	0.574	0.033	0.425	0.251	1.693	-0.557	0.498	-1.118
Ft R	0.447	0.291	1.536	-0.256	0.574	-0.446	0.237	0.251	0.944	-0.427	0.498	-0.857
Fmt L	0.027	0.291	0.093	-0.341	0.574	-0.594	0.085	0.251	0.339	-0.548	0.498	-1.100
Fmt R	0.249	0.291	0.856	-0.094	0.574	-0.164	0.127	0.251	0.506	-0.536	0.498	-1.076
Fmo L	0.236	0.291	0.811	-0.540	0.574	-0.941	0.248	0.251	0.988	-0.486	0.498	-0.976
Fmo R	0.488	0.293	1.666	-0.336	0.578	-0.581	0.119	0.251	0.474	-0.236	0.498	-0.474
Ec L	0.598	0.291	2.055	-0.370	0.574	-0.645	0.384	0.251	1.530	0.048	0.498	0.096
Ec R	0.033	0.291	0.113	-0.596	0.574	-1.038	0.267	0.251	1.064	-0.270	0.498	-0.542
Mz L	0.371	0.291	1.275	-0.637	0.574	-1.110	-0.191	0.251	-0.761	-0.347	0.498	-0.697
Mz R	0.131	0.291	0.450	-0.461	0.574	-0.803	-0.186	0.251	-0.741	-0.332	0.498	-0.667
Zm L	0.409	0.291	1.405	-0.277	0.574	-0.483	0.226	0.251	0.900	-0.198	0.498	-0.398
Zm R	0.157	0.291	0.540	-0.280	0.574	-0.488	-0.040	0.251	-0.159	-0.407	0.498	-0.817
Ol L	0.226	0.311	0.727	-0.044	0.613	-0.072	0.201	0.276	0.728	-0.442	0.545	-0.811
Ol R	0.017	0.309	0.055	-0.626	0.608	-1.030	0.206	0.277	0.744	-0.214	0.548	-0.391
Ju L	0.368	0.297	1.239	-0.522	0.586	-0.891	0.000	0.260	0.000	0.202	0.514	0.393
Ju R	0.379	0.291	1.302	-0.206	0.574	-0.359	0.232	0.254	0.913	0.109	0.503	0.217
Zy L	0.666	0.337	1.976	-0.028	0.662	-0.042	0.276	0.293	0.942	-0.462	0.578	-0.799
Zy R	0.415	0.311	1.334	-0.484	0.613	-0.790	0.320	0.272	1.176	-0.480	0.538	-0.892
Sgl L	0.351	0.357	0.983	-0.336	0.702	-0.479	0.255	0.304	0.839	-0.466	0.599	-0.778
Sgl R	-0.176	0.322	-0.547	-0.449	0.634	-0.708	-0.339	0.285	-1.189	0.086	0.563	0.153
Cdl L	0.171	0.369	0.463	-0.403	0.724	-0.557	0.529	0.322	1.643	-0.474	0.634	-0.748
Cdl R	-0.035	0.327	-0.107	-0.163	0.644	-0.253	0.037	0.281	0.132	-0.297	0.555	-0.535

red = significant deviation from normality

**Table B.52c – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, males and females
(25.0 > BMI < 30.0)**

Landmark		Males 25.0 > BMI < 30.0 (<i>n</i> = 59)					Females 25.0 > BMI < 30.0 (<i>n</i> = 40)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.199	0.311	0.640	-0.067	0.613	-0.109	0.688	0.374	1.840	0.012	0.733	0.016
Sg	0.074	0.311	0.238	-0.679	0.613	-1.108	-0.249	0.374	-0.666	-0.009	0.733	-0.012
G	0.008	0.311	0.026	-0.135	0.613	-0.220	0.521	0.374	1.393	-0.383	0.733	-0.523
N	0.174	0.311	0.559	-0.529	0.613	-0.863	0.140	0.374	0.374	0.041	0.733	0.056
Mn	0.384	0.311	1.235	-0.538	0.613	-0.878	0.109	0.374	0.291	-0.855	0.733	-1.166
Rhi	0.154	0.311	0.495	-0.766	0.613	-1.250	0.332	0.374	0.888	-0.499	0.733	-0.681
Ss	-0.135	0.311	-0.434	-0.171	0.613	-0.279	-0.034	0.378	-0.090	-0.728	0.741	-0.982
Mp	-0.306	0.319	-0.959	-0.100	0.628	-0.159	0.339	0.378	0.897	1.025	0.741	1.383
Pr	0.227	0.333	0.682	0.244	0.656	0.372	1.635	0.403	4.057	2.541	0.788	3.225
Ids	0.232	0.343	0.676	0.176	0.674	0.261	1.566	0.456	3.434	4.181	0.887	4.714
Bilateral												
Nlr L	0.071	0.330	0.215	0.570	0.650	0.877	0.445	0.403	1.104	0.619	0.788	0.786
Nlr R	0.158	0.330	0.479	0.515	0.650	0.792	-0.320	0.409	-0.782	1.312	0.798	1.644
Nmf L	0.242	0.311	0.778	-0.389	0.613	-0.635	0.068	0.374	0.182	0.066	0.733	0.090
Nmf R	0.088	0.311	0.283	-0.526	0.613	-0.858	0.087	0.374	0.233	-0.090	0.733	-0.123
Mf L	0.480	0.311	1.543	-0.644	0.613	-1.051	0.854	0.374	2.283	1.111	0.733	1.516
Mf R	0.155	0.311	0.498	-0.631	0.613	-1.029	0.825	0.374	2.206	0.150	0.733	0.205
Mnm L	0.569	0.316	1.801	-0.385	0.623	-0.618	0.293	0.378	0.775	-0.924	0.741	-1.247
Mnm R	0.353	0.316	1.117	-0.307	0.623	-0.493	-0.105	0.374	-0.281	-0.017	0.733	-0.023
Nm L	0.082	0.311	0.264	-0.322	0.613	-0.525	0.179	0.374	0.479	-0.461	0.733	-0.629
Nm R	-0.293	0.311	-0.942	0.154	0.613	0.251	0.081	0.374	0.217	-0.326	0.733	-0.445
Al L	-0.020	0.311	-0.064	-0.703	0.613	-1.147	1.248	0.374	3.337	1.205	0.733	1.644
Al R	0.167	0.311	0.537	-0.237	0.613	-0.387	0.430	0.374	1.150	-0.454	0.733	-0.619

Table B.52c continued

Landmark		Males 25.0 > BMI < 30.0 (<i>n</i> = 59)					Females 25.0 > BMI < 30.0 (<i>n</i> = 40)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Lno L	0.079	0.311	0.254	-1.080	0.613	-1.762	0.464	0.374	1.241	-0.340	0.733	-0.464
Lno R	-0.076	0.311	-0.244	-0.985	0.613	-1.607	0.433	0.374	1.158	-0.316	0.733	-0.431
Cf L	0.020	0.319	0.063	-0.697	0.628	-1.110	0.880	0.378	2.328	-0.101	0.741	-0.136
Cf R	0.418	0.319	1.310	0.034	0.628	0.054	0.592	0.374	1.583	-0.092	0.733	-0.126
Sc L	-0.044	0.337	-0.131	-0.151	0.662	-0.228	1.237	0.409	3.024	3.661	0.798	4.588
Sc R	-0.743	0.333	-2.231	0.576	0.656	0.878	0.729	0.393	1.855	0.872	0.768	1.135
Fe L	-0.160	0.311	-0.514	-0.481	0.613	-0.785	0.210	0.378	0.556	0.156	0.741	0.211
Fe R	0.299	0.311	0.961	-0.343	0.613	-0.560	0.676	0.374	1.807	1.071	0.733	1.461
Lf L	0.251	0.311	0.807	-0.534	0.613	-0.871	-0.378	0.378	-1.000	-0.048	0.741	-0.065
Lf R	-0.019	0.311	-0.061	-0.131	0.613	-0.214	0.309	0.374	0.826	-0.186	0.733	-0.254
So L	0.329	0.311	1.058	-0.392	0.613	-0.639	0.699	0.378	1.849	-0.009	0.741	-0.012
So R	0.455	0.311	1.463	-0.566	0.613	-0.923	0.602	0.374	1.610	0.315	0.733	0.430
Os L	-0.375	0.311	-1.206	-0.307	0.613	-0.501	0.429	0.374	1.147	1.445	0.733	1.971
Os R	0.006	0.311	0.019	-0.385	0.613	-0.628	-0.052	0.374	-0.139	0.059	0.733	0.080
Or L	0.776	0.311	2.495	0.176	0.613	0.287	0.343	0.374	0.917	-0.697	0.733	-0.951
Or R	0.480	0.311	1.543	-0.711	0.613	-1.160	0.240	0.374	0.642	-0.910	0.733	-1.241
Sor L	0.592	0.311	1.904	-0.031	0.613	-0.051	0.491	0.374	1.313	-0.532	0.733	-0.726
Sor R	0.259	0.311	0.833	-0.502	0.613	-0.819	0.306	0.374	0.818	-0.670	0.733	-0.914
Smc L	0.135	0.319	0.423	-0.528	0.628	-0.841	0.532	0.388	1.371	-0.445	0.759	-0.586
Smc R	-0.080	0.319	-0.251	-0.569	0.628	-0.906	0.994	0.388	2.562	0.409	0.759	0.539
Ecm L	-0.118	0.365	-0.323	-0.356	0.717	-0.497	0.622	0.441	1.410	-0.357	0.858	-0.416
Ecm R	-0.359	0.361	-0.994	-0.631	0.709	-0.890	0.972	0.427	2.276	-0.044	0.833	-0.053

Table B.52c continued

Landmark		Males 25.0 > BMI < 30.0 (<i>n</i> = 59)					Females 25.0 > BMI < 30.0 (<i>n</i> = 40)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Ft L	0.371	0.311	1.193	0.045	0.613	0.073	0.525	0.378	1.389	-0.333	0.741	-0.449
Ft R	0.271	0.311	0.871	-0.657	0.613	-1.072	0.366	0.374	0.979	-0.315	0.733	-0.430
Fmt L	0.322	0.311	1.035	-0.064	0.613	-0.104	0.220	0.374	0.588	-0.563	0.733	-0.768
Fmt R	0.330	0.311	1.061	-0.421	0.613	-0.687	0.113	0.374	0.302	-0.603	0.733	-0.823
Fmo L	0.192	0.311	0.617	-0.881	0.613	-1.437	-0.041	0.374	-0.110	-0.392	0.733	-0.535
Fmo R	-0.107	0.311	-0.344	-0.494	0.613	-0.806	-0.090	0.374	-0.241	-0.514	0.733	-0.701
Ec L	0.490	0.311	1.576	-0.318	0.613	-0.519	0.073	0.374	0.195	-0.440	0.733	-0.600
Ec R	0.423	0.311	1.360	-0.553	0.613	-0.902	-0.189	0.374	-0.505	-0.379	0.733	-0.517
Mz L	0.204	0.311	0.656	-0.319	0.613	-0.520	0.376	0.374	1.005	-0.454	0.733	-0.619
Mz R	0.186	0.311	0.598	-0.528	0.613	-0.861	0.545	0.374	1.457	-0.217	0.733	-0.296
Zm L	0.351	0.311	1.129	-0.417	0.613	-0.680	0.614	0.374	1.642	0.046	0.733	0.063
Zm R	0.041	0.311	0.132	-0.173	0.613	-0.282	0.377	0.378	0.997	-0.409	0.741	-0.552
Ol L	-0.009	0.369	-0.024	-0.483	0.724	-0.667	1.315	0.409	3.215	2.396	0.798	3.003
Ol R	-0.268	0.357	-0.751	-0.245	0.702	-0.349	0.511	0.409	1.249	-0.421	0.798	-0.528
Ju L	-0.086	0.325	-0.265	-0.628	0.639	-0.983	0.314	0.388	0.809	-0.738	0.759	-0.972
Ju R	0.139	0.314	0.443	0.009	0.618	0.015	0.581	0.403	1.442	-0.514	0.788	-0.652
Zy L	-0.010	0.414	-0.024	-0.288	0.809	-0.356	-0.008	0.448	-0.018	-0.321	0.872	-0.368
Zy R	0.571	0.409	1.396	0.394	0.798	0.494	0.333	0.434	0.767	-0.661	0.845	-0.782
Sgl L	0.133	0.472	0.282	-0.808	0.918	-0.880	-0.378	0.481	-0.786	-0.166	0.935	-0.178
Sgl R	0.002	0.448	0.004	-0.554	0.872	-0.635	0.431	0.456	0.945	-0.983	0.887	-1.108
Cdl L	0.273	0.472	0.578	0.235	0.918	0.256	-0.008	0.448	-0.018	0.043	0.872	0.049
Cdl R	0.228	0.434	0.525	-0.953	0.845	-1.128	0.267	0.464	0.575	-0.946	0.902	-1.049

red = significant deviation from normality

**Table B.52d – Standard error and z-score values for skewness and kurtosis of facial soft tissue depths, males and females
(30.0 > BMI)**

Landmark		Males 30.0 > BMI (<i>n</i> = 31)					Females 30.0 > BMI (<i>n</i> = 23)					
Unilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
M	0.085	0.421	0.202	-0.579	0.821	-0.705	-0.229	0.481	-0.476	-0.306	0.935	-0.327
Sg	0.583	0.421	1.385	0.253	0.821	0.308	-0.458	0.481	-0.952	-0.014	0.935	-0.015
G	0.722	0.421	1.715	-0.080	0.821	-0.097	-0.434	0.481	-0.902	-0.428	0.935	-0.458
N	-0.323	0.421	-0.767	-0.814	0.821	-0.991	-0.114	0.481	-0.237	-0.788	0.935	-0.843
Mn	0.042	0.421	0.100	-0.902	0.821	-1.099	-0.169	0.481	-0.351	0.120	0.935	0.128
Rhi	0.132	0.421	0.314	-0.790	0.821	-0.962	0.237	0.481	0.493	-0.734	0.935	-0.785
Ss	-0.043	0.421	-0.102	-0.417	0.821	-0.508	-0.231	0.491	-0.470	0.072	0.953	0.076
Mp	-0.087	0.421	-0.207	-0.436	0.821	-0.531	-0.097	0.491	-0.198	-1.091	0.953	-1.145
Pr	-0.072	0.456	-0.158	-0.985	0.887	-1.110	0.228	0.512	0.445	0.143	0.992	0.144
Ids	-0.370	0.472	-0.784	-0.142	0.918	-0.155	0.202	0.536	0.377	-0.431	1.038	-0.415
Bilateral												
Nlr L	-0.237	0.441	-0.537	-0.844	0.858	-0.984	-0.185	0.501	-0.369	-0.784	0.972	-0.807
Nlr R	0.032	0.441	0.073	-0.176	0.858	-0.205	-0.238	0.501	-0.475	-0.620	0.972	-0.638
Nmf L	0.811	0.421	1.926	-0.368	0.821	-0.448	-0.297	0.481	-0.617	-0.247	0.935	-0.264
Nmf R	0.225	0.421	0.534	-0.252	0.821	-0.307	0.329	0.481	0.684	-0.637	0.935	-0.681
Mf L	0.585	0.421	1.390	-0.742	0.821	-0.904	0.421	0.481	0.875	-0.342	0.935	-0.366
Mf R	0.187	0.421	0.444	-0.757	0.821	-0.922	0.325	0.481	0.676	-0.730	0.935	-0.781
Mnm L	0.457	0.421	1.086	-0.793	0.821	-0.966	-0.186	0.481	-0.387	-0.610	0.935	-0.652
Mnm R	0.543	0.421	1.290	-0.261	0.821	-0.318	-0.102	0.481	-0.212	-0.769	0.935	-0.822
Nm L	0.179	0.421	0.425	-0.308	0.821	-0.375	-0.126	0.481	-0.262	0.441	0.935	0.472
Nm R	-0.191	0.421	-0.454	-0.596	0.821	-0.726	-0.112	0.481	-0.233	0.103	0.935	0.110
Al L	0.445	0.421	1.057	-0.444	0.821	-0.541	0.569	0.481	1.183	-0.801	0.935	-0.857
Al R	-0.186	0.421	-0.442	-0.447	0.821	-0.544	0.419	0.481	0.871	-0.573	0.935	-0.613

Table B.52d continued

Landmark		Males 30.0 > BMI (<i>n</i> = 31)					Females 30.0 > BMI (<i>n</i> = 23)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Lno L	0.534	0.421	1.268	-0.196	0.821	-0.239	-0.049	0.481	-0.102	-0.316	0.935	-0.338
Lno R	0.328	0.421	0.779	-0.588	0.821	-0.716	-0.216	0.481	-0.449	0.406	0.935	0.434
Cf L	0.391	0.421	0.929	-0.779	0.821	-0.949	-0.031	0.481	-0.064	-0.587	0.935	-0.628
Cf R	0.563	0.421	1.337	-0.544	0.821	-0.663	0.472	0.481	0.981	-0.336	0.935	-0.359
Sc L	0.445	0.434	1.025	0.379	0.845	0.449	0.208	0.512	0.406	-1.403	0.992	-1.414
Sc R	0.297	0.434	0.684	-0.976	0.845	-1.155	0.540	0.501	1.078	0.463	0.972	0.476
Fe L	0.018	0.421	0.043	-0.739	0.821	-0.900	0.218	0.481	0.453	-0.155	0.935	-0.166
Fe R	0.420	0.421	0.998	-0.224	0.821	-0.273	-0.067	0.481	-0.139	0.120	0.935	0.128
Lf L	0.118	0.421	0.280	-0.980	0.821	-1.194	0.425	0.481	0.884	0.443	0.935	0.474
Lf R	-0.015	0.421	-0.036	-0.604	0.821	-0.736	0.013	0.481	0.027	-0.207	0.935	-0.221
So L	0.135	0.421	0.321	-0.946	0.821	-1.152	-0.192	0.481	-0.399	-0.170	0.935	-0.182
So R	0.042	0.421	0.100	-0.395	0.821	-0.481	0.079	0.481	0.164	0.432	0.935	0.462
Os L	0.417	0.421	0.990	-0.761	0.821	-0.927	0.207	0.481	0.430	-0.147	0.935	-0.157
Os R	0.392	0.421	0.931	-0.447	0.821	-0.544	0.132	0.481	0.274	-0.071	0.935	-0.076
Or L	0.184	0.421	0.437	-0.501	0.821	-0.610	0.403	0.481	0.838	-0.158	0.935	-0.169
Or R	0.324	0.421	0.770	-0.304	0.821	-0.370	0.164	0.481	0.341	-0.395	0.935	-0.422
Sor L	0.550	0.421	1.306	-0.192	0.821	-0.234	0.085	0.481	0.177	-0.316	0.935	-0.338
Sor R	0.145	0.421	0.344	-0.434	0.821	-0.529	-0.137	0.481	-0.285	-0.261	0.935	-0.279
Smc L	0.044	0.434	0.101	-0.561	0.845	-0.664	0.366	0.501	0.731	0.348	0.972	0.358
Smc R	0.514	0.427	1.204	0.058	0.833	0.070	0.084	0.481	0.175	-0.440	0.935	-0.471
Ecm L	0.067	0.481	0.139	-1.305	0.935	-1.396	-0.197	0.616	-0.320	-0.616	1.191	-0.517
Ecm R	0.328	0.501	0.655	0.322	0.972	0.331	0.119	0.550	0.216	-0.298	1.063	-0.280

Table B.52d continued

Landmark		Males 30.0 > BMI (<i>n</i> = 31)					Females 30.0 > BMI (<i>n</i> = 23)					
Bilateral	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score	Skewness	St.Error	z -score	Kurtosis	St.Error	z -score
Ft L	0.209	0.421	0.496	-0.725	0.821	-0.883	0.428	0.481	0.890	-0.141	0.935	-0.151
Ft R	0.343	0.421	0.815	-0.966	0.821	-1.177	-0.078	0.481	-0.162	-0.526	0.935	-0.563
Fmt L	0.462	0.421	1.097	-0.578	0.821	-0.704	0.336	0.481	0.699	-0.223	0.935	-0.239
Fmt R	0.905	0.421	2.150	-0.009	0.821	-0.011	0.543	0.481	1.129	-0.161	0.935	-0.172
Fmo L	0.664	0.421	1.577	-0.025	0.821	-0.030	-0.147	0.481	-0.306	-1.040	0.935	-1.112
Fmo R	0.325	0.421	0.772	-0.564	0.821	-0.687	0.078	0.481	0.162	-0.165	0.935	-0.176
Ec L	0.512	0.421	1.216	-0.851	0.821	-1.037	-0.053	0.481	-0.110	-0.662	0.935	-0.708
Ec R	0.457	0.421	1.086	-0.329	0.821	-0.401	-0.140	0.481	-0.291	-0.366	0.935	-0.391
Mz L	0.464	0.421	1.102	-0.221	0.821	-0.269	-0.114	0.481	-0.237	-0.446	0.935	-0.477
Mz R	0.412	0.421	0.979	-0.803	0.821	-0.978	-0.371	0.481	-0.771	-0.040	0.935	-0.043
Zm L	-0.162	0.421	-0.385	-0.364	0.821	-0.443	0.273	0.481	0.568	-0.575	0.935	-0.615
Zm R	0.224	0.421	0.532	-0.570	0.821	-0.694	-0.110	0.481	-0.229	-0.147	0.935	-0.157
Ol L	0.603	0.564	1.069	0.098	1.091	0.090	0.660	0.597	1.106	-0.553	1.154	-0.479
Ol R	-0.023	0.501	-0.046	-0.748	0.972	-0.770	-0.149	0.564	-0.264	0.590	1.091	0.541
Ju L	-0.421	0.464	-0.907	-0.476	0.902	-0.528	-0.023	0.550	-0.042	-0.597	1.063	-0.562
Ju R	0.455	0.434	1.048	-0.490	0.845	-0.580	0.203	0.481	0.422	-0.741	0.935	-0.793
Zy L	0.368	0.661	0.557	-1.190	1.279	-0.930	-0.515	0.661	-0.779	-0.030	1.279	-0.023
Zy R	0.054	0.524	0.103	-0.879	1.014	-0.867	0.343	0.550	0.624	-1.084	1.063	-1.020
Sgl L	0.667	0.687	0.971	-0.119	1.334	-0.089	-0.120	0.661	-0.182	-1.308	1.279	-1.023
Sgl R	0.141	0.564	0.250	-0.133	1.091	-0.122	0.204	0.597	0.342	-0.786	1.154	-0.681
Cdl L	1.028	0.687	1.496	0.315	1.334	0.236	0.864	0.752	1.149	-0.381	1.481	-0.257
Cdl R	0.338	0.637	0.531	-1.021	1.232	-0.829	-0.062	0.637	-0.097	0.024	1.232	0.019

red = significant deviation from normality

Table B.53 - Intra-observer error

Anatomical Landmark	<i>n</i>	Absolute mean diff. (mm)	VMV (mm)	TEM (mm)	Relative TEM (%)	<i>R</i>
M	72	0.2570	4.9682	0.0469	0.94	0.97
Sg	72	0.2905	6.0664	0.0530	0.87	0.97
G	72	0.2739	5.9052	0.0500	0.82	0.97
N	72	0.2460	8.2388	0.0449	0.55	0.97
Mn	72	0.3632	5.5968	0.0663	1.19	0.97
Rhi	72	0.3450	3.3691	0.0630	1.87	0.97
Ss	72	0.8049	14.5572	0.1470	1.01	0.97
Mp	72	0.5680	13.1681	0.1037	0.79	0.97
Pr	65	0.4943	12.3815	0.0951	0.77	0.96
Ids	58	0.4782	13.9140	0.0976	0.70	0.96
Nlr L	70	0.4578	14.2474	0.0850	0.60	0.97
Nlr R	70	0.5240	14.3095	0.0973	0.68	0.97
Nmf L	72	0.4240	7.1919	0.0774	1.08	0.97
Nmf R	72	0.4948	7.4484	0.0903	1.21	0.97
Mf L	72	0.5027	8.9306	0.0918	1.03	0.97
Mf R	72	0.4368	8.6856	0.0797	0.92	0.97
Mnm L	72	0.3756	3.9004	0.0686	1.76	0.97
Mnm R	72	0.3475	3.7445	0.0634	1.69	0.97
Nm L	72	0.5249	5.0269	0.0958	1.91	0.97
Nm R	72	0.4170	4.5221	0.0761	1.68	0.97
Al L	72	0.3459	9.8741	0.0632	0.64	0.97
Al R	72	0.4777	9.6294	0.0872	0.91	0.97
Lno L	72	0.4143	14.1885	0.0757	0.53	0.97
Lno R	72	0.2376	14.6144	0.0434	0.30	0.97
Cf L	70	0.4773	13.8690	0.0886	0.64	0.97
Cf R	70	0.5677	13.7912	0.1054	0.76	0.97
Sc L	65	0.2236	13.6541	0.0430	0.32	0.96
Sc R	65	0.2647	13.5704	0.0509	0.38	0.96
Fe L	72	0.2498	5.5221	0.0456	0.83	0.97
Fe R	72	0.5007	5.8076	0.0914	1.57	0.97
Lf L	72	0.2449	6.9293	0.0447	0.65	0.97
Lf R	72	0.1771	7.0688	0.0323	0.46	0.97
So L	72	0.2675	8.5718	0.0488	0.57	0.97
So R	72	0.2917	8.7117	0.0533	0.61	0.97
Os L	72	0.4010	9.2592	0.0732	0.79	0.97
Os R	72	0.4323	9.4913	0.0789	0.83	0.97
Or L	72	0.3422	8.0056	0.0625	0.78	0.97
Or R	72	0.3398	8.0197	0.0620	0.77	0.97
Sor L	72	0.2451	7.1457	0.0448	0.63	0.97
Sor R	72	0.2917	7.4293	0.0533	0.72	0.97

Table B.53 continued

Anatomical Landmark	<i>n</i>	Absolute mean diff. (mm)	VMV (mm)	TEM (mm)	Relative TEM (%)	<i>R</i>
Smc L	70	0.6352	32.7256	0.1180	0.36	0.97
Smc R	62	0.6713	31.9491	0.1317	0.41	0.96
Ecm L	53	0.3226	35.9761	0.0688	0.19	0.95
Ecm R	48	0.2425	35.4023	0.0542	0.15	0.95
Ft L	72	0.2193	7.6329	0.0401	0.53	0.97
Ft R	72	0.2659	7.6192	0.0486	0.64	0.97
Fmt L	72	0.5567	8.3719	0.1016	1.20	0.97
Fmt R	72	0.6321	8.0800	0.1154	1.43	0.97
Fmo L	70	0.5167	8.4671	0.0959	1.13	0.97
Fmo R	72	0.5567	9.1058	0.1016	1.12	0.97
Ec L	72	0.7047	6.7044	0.1287	1.92	0.97
Ec R	72	0.6859	7.0154	0.1252	1.79	0.97
Mz L	72	0.2937	10.6214	0.0536	0.51	0.97
Mz R	72	0.3286	10.4101	0.0600	0.58	0.97
Zm L	72	0.4676	15.5941	0.0854	0.55	0.97
Zm R	72	0.6337	16.0111	0.1157	0.72	0.97
OI L	58	0.3383	27.7842	0.0691	0.25	0.96
OI R	46	0.4676	27.2649	0.0895	0.33	0.96
Ju L	70	0.3322	11.6048	0.0617	0.53	0.97
Ju R	55	0.2528	10.7916	0.0527	0.49	0.96
Zy L	48	0.2658	10.4318	0.0594	0.57	0.95
Zy R	38	0.2065	9.3951	0.0516	0.55	0.94
Sgl L	46	0.4700	14.0882	0.1078	0.77	0.95
Sgl R	38	0.3902	13.2518	0.0976	0.74	0.94
Cdl L	46	0.6682	16.6654	0.1533	0.92	0.95
Cdl R	38	0.9040	15.6139	0.2260	1.45	0.94

Table B.54 - Inter-observer error

Anatomical Landmark	<i>n</i>	Absolute mean diff. (mm)	VMV (mm)	TEM (mm)	Relative TEM (%)	<i>R</i>
M	23	0.3770	5.1432	0.0556	1.08	0.98
Sg	24	0.4292	6.3867	0.0620	0.97	0.98
G	24	0.5046	6.1202	0.0728	1.19	0.98
N	24	0.4758	8.4308	0.0687	0.82	0.98
Mn	24	0.7258	5.7242	0.1048	1.83	0.98
Rhi	24	0.5858	3.6600	0.0846	2.31	0.98
Ss	24	1.1517	14.5592	0.1662	1.14	0.98
Mp	24	0.7042	12.9758	0.1016	0.78	0.98
Pr	21	1.1128	12.4705	0.1717	0.41	0.98
Ids	18	2.3922	13.1282	0.3987	3.04	0.97
Nlr L	23	1.2313	13.8172	0.1816	1.31	0.98
Nlr R	23	1.4017	13.7651	0.2067	1.50	0.98
Nmf L	24	1.3979	7.6652	0.2018	1.47	0.98
Nmf R	24	1.2525	7.8933	0.1808	2.29	0.98
Mf L	24	2.1875	8.0842	0.3157	3.91	0.98
Mf R	24	2.0158	7.8933	0.2910	3.69	0.98
Mnm L	24	0.8817	4.2046	0.1273	3.07	0.98
Mnm R	24	0.9100	4.1383	0.1314	3.17	0.98
Nm L	24	1.3783	5.7004	0.1990	3.49	0.98
Nm R	24	1.4179	5.3777	0.2047	3.80	0.98
Al L	24	1.7933	10.5646	0.2589	2.45	0.98
Al R	24	2.3596	10.6590	0.3406	3.20	0.98
Lno L	24	0.8275	14.6450	0.1194	0.82	0.98
Lno R	24	1.1313	14.9631	0.1633	1.09	0.98
Cf L	23	3.3244	15.4679	0.4902	3.17	0.98
Cf R	23	2.8374	15.3868	0.4184	2.73	0.98
Sc L	21	0.5443	13.5247	0.0840	0.62	0.98
Sc R	21	0.6267	13.7781	0.0967	0.70	0.98
Fe L	24	0.5688	5.8935	0.0821	1.39	0.98
Fe R	24	0.6375	5.9300	0.0920	1.55	0.98
Lf L	24	0.3933	7.2342	0.0568	0.79	0.98
Lf R	24	0.3733	7.1538	0.0539	0.75	0.98
So L	24	0.5379	8.7073	0.0776	0.89	0.98
So R	24	0.6600	8.6392	0.0953	1.10	0.98
Os L	24	0.9996	9.7148	0.1443	1.49	0.98
Os R	24	0.5892	9.8308	0.0850	0.87	0.98
Or L	24	0.7892	8.5971	0.1139	1.33	0.98
Or R	24	0.7279	8.6027	0.1051	1.22	0.98
Sor L	24	1.1617	7.8850	0.1556	1.97	0.98
Sor R	24	0.7117	7.9875	0.1218	1.52	0.97

Table B.54 continued

Anatomical		Absolute mean			Relative	
Landmark	<i>n</i>	diff. (mm)	VMV (mm)	TEM (mm)	TEM (%)	<i>R</i>
Smc L	23	1.4044	33.3039	0.2071	0.62	0.98
Smc R	20	2.0314	32.3306	0.3212	0.99	0.98
Ecm L	16	0.9350	36.6769	0.1653	0.45	0.97
Ecm R	14	1.0507	36.5488	0.1986	0.54	0.96
Ft L	22	0.4241	7.9924	0.0639	0.80	0.98
Ft R	23	1.4844	7.9646	0.2189	2.75	0.98
Fmt L	24	1.6300	8.0108	0.2353	2.94	0.98
Fmt R	24	1.3125	7.6971	0.1894	2.46	0.98
Fmo L	23	0.8848	8.9179	0.1305	1.46	0.98
Fmo R	24	0.5075	9.2213	0.0733	0.80	0.98
Ec L	24	0.6479	6.9060	0.0935	1.35	0.98
Ec R	24	0.6746	7.2156	0.0974	1.35	0.98
Mz L	24	0.7296	10.8785	0.1053	0.97	0.98
Mz R	24	0.5579	10.6315	0.0805	0.76	0.98
Zm L	24	1.9213	16.6531	0.0277	0.17	1.00
Zm R	24	1.8135	16.9626	0.2618	1.54	0.98
OI L	18	0.3650	28.0771	0.0608	0.22	0.97
OI R	13	0.3639	27.8668	0.0714	0.26	0.96
Ju L	22	0.2764	11.8574	0.0417	0.35	0.98
Ju R	18	0.4350	10.6671	0.0725	0.68	0.97
Zy L	18	0.7800	10.8720	0.1300	1.20	0.97
Zy R	12	0.5608	9.8214	0.1145	1.17	0.96
Sgl L	15	0.7200	14.3206	0.1315	0.92	0.97
Sgl R	12	1.7242	13.7689	0.3519	2.56	0.96
Cdl L	15	1.3220	17.0977	0.2414	1.41	0.97
Cdl R	13	0.9100	16.5290	0.1785	1.08	0.96

Table B.55 - Facial soft tissue thicknesses (mm), males <24 years, 18.5 > BMI < 25.0

Landmark		Males <24 years, 18.5 > BMI < 25.0 (<i>n</i> = 21)													
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shor	SH σ	SH $\bar{x}$	SH MAD	ShorMax
M	21	4.8	4.8	0.6	3.5	6.3	0.3	11	4.6	5.2	4.9	0.2	4.9	0.2	5.2
Sg	21	5.6	5.7	0.9	4.1	7.5	0.5	11	5.2	6.2	5.7	0.4	5.8	0.3	6.3
G	21	5.5	5.4	0.7	4.6	7.3	0.4	11	4.7	5.5	5.1	0.2	5.1	0.2	6.1
N	21	8.4	8.4	1.0	6.3	10.1	0.5	11	7.8	8.8	8.3	0.4	8.2	0.3	9.6
Mn	21	6.0	6.0	1.2	3.5	8.1	0.9	11	5.5	7.1	6.3	0.5	6.2	0.4	7.6
Rhi	21	3.6	3.5	1.1	2.0	6.5	0.6	11	3.1	4.1	3.6	0.4	3.6	0.3	4.2
Ss	21	16.3	16.0	2.5	12.8	21.7	1.3	11	14.7	17.2	16.1	0.9	16.2	0.7	19.1
Mp	21	14.5	14.2	1.5	12.6	18.4	1.0	11	13.1	14.9	14.0	0.7	13.9	0.7	16.2
Pr	21	13.5	13.1	1.8	10.9	17.9	1.2	11	11.7	13.7	12.7	0.7	12.9	0.6	15.4
Ids	21	15.8	15.4	3.0	10.0	24.1	1.2	11	13.6	16.5	15.2	0.9	15.1	0.7	18.7
Bilateral															
Nlr L	21	16.0	16.1	1.5	13.4	19.1	1.2	11	15.6	17.7	16.8	0.7	16.8	0.4	17.7
Nlr R	21	16.0	16.0	1.7	12.6	19.9	1.4	11	14.5	16.9	15.6	0.9	15.8	0.9	17.5
Nmf L	21	8.4	7.9	1.8	6.3	12.3	1.1	11	6.4	8.5	7.3	0.7	7.3	0.5	9.7
Nmf R	21	7.8	7.8	1.9	5.4	12.3	1.0	11	5.4	7.9	6.5	0.9	6.5	0.8	9.1
Mf L	21	10.1	9.2	3.0	5.9	15.4	2.2	11	6.4	9.5	8.2	1.1	8.7	0.6	13.4
Mf R	21	9.8	10.0	2.5	5.7	14.6	1.8	11	9.1	12.6	10.7	1.1	10.3	0.6	12.9
Mnm L	20	3.9	3.8	1.0	2.3	6.0	0.5	11	3.5	4.4	3.9	0.3	3.8	0.1	4.7
Mnm R	21	3.9	3.8	1.0	2.4	6.7	0.5	11	3.4	4.3	3.8	0.3	3.8	0.1	4.8
Nm L	21	4.7	4.6	1.0	3.3	6.4	0.6	11	4.0	5.4	4.6	0.5	4.6	0.4	5.9
Nm R	21	5.1	4.8	1.1	3.3	8.0	0.8	11	4.6	5.7	5.2	0.4	5.2	0.5	6.3
Al L	21	9.4	9.5	1.1	7.5	11.2	0.8	11	8.5	10.1	9.3	0.5	9.5	0.3	10.4
Al R	21	9.4	9.5	1.0	7.6	11.1	0.7	11	8.8	10.2	9.6	0.5	9.6	0.4	11.0

Table B.55 continued

Landmark		Males <24 years, 18.5 > BMI < 25.0 (n = 21)													
Bilateral	n	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.	MAD	SH n	SH Min.	SH Max.	Shorth	SH σ	SH $\tilde{x}$	SH MAD	ShorMax
Lno L	21	14.4	13.8	2.0	11.7	19.7	0.6	11	13.1	14.3	13.7	0.4	13.7	0.3	15.7
Lno R	21	14.4	13.7	1.6	12.2	17.5	0.7	11	12.6	14.4	13.6	0.5	13.6	0.3	16.4
Cf L	21	14.1	13.9	1.6	11.3	17.3	1.2	11	12.4	14.4	13.5	0.7	13.7	0.6	15.9
Cf R	21	14.1	14.2	1.5	11.4	16.9	0.9	11	12.9	14.6	13.7	0.6	13.7	0.7	16.0
Sc L	21	14.4	14.2	1.3	12.4	17.5	0.8	11	13.7	15.4	14.6	0.6	14.7	0.4	15.4
Sc R	21	14.4	14.6	1.4	12.7	18.1	1.0	11	13.0	14.8	14.0	0.7	14.2	0.6	15.6
Fe L	21	5.0	4.9	0.9	3.7	7.1	0.4	11	4.5	5.4	4.9	0.3	4.9	0.2	6.2
Fe R	21	5.0	4.8	0.9	3.5	7.5	0.4	11	4.4	5.2	4.7	0.3	4.7	0.2	5.8
Lf L	21	6.2	6.0	1.1	4.7	8.9	0.6	11	5.7	6.9	6.2	0.4	6.1	0.2	8.1
Lf R	21	6.2	6.2	1.0	4.8	8.7	0.6	11	5.4	6.4	5.9	0.4	5.9	0.4	7.1
So L	21	7.5	7.4	1.1	5.5	10.3	0.4	11	7.3	7.9	7.5	0.2	7.4	0.1	9.2
So R	21	7.4	7.5	0.8	6.1	8.6	0.6	11	6.6	7.7	7.2	0.4	7.3	0.4	8.1
Os L	21	8.9	8.8	1.1	6.9	10.9	0.7	11	7.8	8.9	8.4	0.4	8.4	0.3	10.2
Os R	21	8.6	8.5	1.5	5.8	11.5	0.8	11	8.1	9.7	8.7	0.5	8.5	0.2	10.7
Or L	21	6.8	6.5	1.3	4.5	9.7	0.9	11	6.4	8.0	7.2	0.7	7.2	0.7	8.2
Or R	21	6.7	6.7	1.4	4.0	8.5	1.2	11	6.4	8.2	7.2	0.7	7.0	0.5	8.5
Sor L	21	6.0	6.1	1.0	4.6	7.3	0.9	11	5.8	7.2	6.6	0.5	6.6	0.4	7.2
Sor R	21	6.1	5.8	1.4	3.8	8.4	1.0	11	4.6	6.4	5.5	0.6	5.6	0.5	7.5
Smc L	21	28.7	28.4	3.4	22.1	34.0	2.3	11	27.2	31.4	29.1	1.6	28.8	1.4	33.0
Smc R	21	28.5	28.1	3.4	21.2	38.1	1.6	11	26.3	29.8	28.2	1.1	28.0	0.8	31.8
Ecm L	20	30.7	31.3	3.1	22.7	34.0	1.3	11	30.8	33.4	32.2	0.9	32.4	0.9	34.0
Ecm R	21	31.1	31.8	3.8	21.7	40.4	1.9	11	29.8	32.9	31.8	1.0	32.0	0.6	35.2

Table B.55 continued

Landmark		Males <24 years, 18.5 > BMI < 25.0 (<i>n</i> = 21)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
Ft L	21	6.5	6.3	0.9	5.4	8.2	0.7	11	5.4	6.4	5.8	0.4	5.7	0.3	7.5
Ft R	21	6.5	6.7	0.9	5.3	8.3	0.5	11	6.1	7.2	6.8	0.3	6.7	0.3	7.6
Fmt L	21	7.2	7.0	2.0	4.5	14.0	0.8	11	6.5	8.0	7.1	0.5	7.0	0.2	8.8
Fmt R	21	7.1	7.0	1.8	4.1	13.4	0.7	11	6.5	7.8	7.2	0.5	7.2	0.5	8.2
Fmo L	21	8.1	7.7	2.1	4.8	11.6	1.3	11	6.3	8.8	7.5	0.9	7.4	0.7	11.1
Fmo R	21	8.2	7.9	2.5	4.5	12.9	1.8	11	5.2	8.7	7.1	1.3	7.3	0.9	10.7
Ec L	21	5.1	4.9	0.9	3.3	7.2	0.4	11	4.4	5.0	4.7	0.2	4.7	0.2	6.3
Ec R	21	5.1	5.2	1.3	2.8	7.7	0.9	11	4.1	5.6	4.8	0.6	4.7	0.5	6.4
Mz L	21	7.9	7.8	1.0	5.9	9.8	0.8	11	6.6	7.8	7.4	0.4	7.4	0.3	8.8
Mz R	21	8.1	8.1	1.3	5.5	10.3	1.0	11	6.3	8.2	7.4	0.7	7.4	0.6	9.5
Zm L	21	13.7	13.7	2.2	9.7	18.2	1.4	11	12.9	15.8	14.4	1.1	14.3	1.0	16.0
Zm R	21	13.4	13.6	2.3	9.2	17.4	1.4	11	13.2	15.8	14.3	0.9	14.0	0.6	17.4
Ol L	20	25.1	25.3	2.6	19.3	29.8	1.8	11	25.0	28.4	26.4	1.3	26.1	0.9	28.4
Ol R	20	24.9	25.2	2.8	17.5	29.7	1.6	11	24.9	27.4	26.2	1.0	26.5	0.9	27.4
Ju L	20	8.9	8.6	1.1	7.5	11.2	0.8	11	7.7	9.5	8.4	0.6	8.3	0.4	10.2
Ju R	21	9.2	9.4	1.7	7.3	15.1	0.8	11	8.4	10.2	9.3	0.6	9.5	0.4	10.2
Zy L	18	7.6	7.5	1.7	5.5	11.1	1.2	10	6.0	8.1	7.2	0.8	7.3	0.7	9.4
Zy R	19	8.0	7.9	1.9	5.8	12.8	1.6	10	5.9	8.2	6.9	0.9	6.8	0.6	9.6
Sgl L	16	13.2	13.1	1.8	10.0	17.7	0.8	9	12.2	13.9	13.1	0.6	13.1	0.6	14.8
Sgl R	18	13.3	13.3	1.8	10.2	16.4	1.2	10	12.0	14.1	13.1	0.8	13.0	0.9	15.7
Cdl L	16	15.6	15.8	3.3	10.1	20.8	2.7	9	15.0	20.2	17.0	1.8	16.8	1.4	20.2
Cdl R	18	15.6	15.5	3.2	10.8	21.5	2.1	10	12.6	17.3	15.2	1.5	15.1	0.9	19.6

Table B.56 - Facial soft tissue thicknesses (mm), females <24 years, 18.5 > BMI < 25.0

Landmark		Females <24 years, 18.5 > BMI < 25.0 (<i>n</i> = 14)													
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
M	14	4.2	4.0	0.7	3.3	5.9	0.4	8	3.3	4.1	3.8	0.3	3.9	0.1	4.8
Sg	14	5.0	4.9	0.9	3.7	6.7	0.5	8	4.1	5.3	4.7	0.4	4.7	0.2	6.1
G	14	5.1	5.2	0.6	4.1	6.0	0.5	8	4.6	5.7	5.2	0.4	5.2	0.3	5.7
N	14	6.7	6.7	0.9	5.5	8.0	0.8	8	6.5	8.0	7.2	0.5	7.2	0.5	7.8
Mn	14	5.1	5.1	1.3	3.0	7.4	0.7	8	3.7	5.4	4.7	0.7	5.0	0.4	6.0
Rhi	14	2.8	2.7	0.7	1.8	4.0	0.4	8	2.1	2.9	2.5	0.3	2.5	0.2	3.5
Ss	14	14.3	14.5	2.1	11.2	18.4	1.0	8	14.1	16.9	15.0	0.9	14.8	0.6	16.9
Mp	14	12.3	12.3	1.2	9.9	14.7	0.6	8	11.4	12.7	12.2	0.5	12.2	0.4	13.5
Pr	14	12.1	12.1	1.9	8.8	16.9	1.2	8	10.3	12.7	11.5	0.9	11.3	0.6	13.5
Ids	13	13.2	13.3	2.1	9.3	16.3	1.1	7	11.9	14.2	13.2	0.9	13.3	0.6	14.8
Bilateral															
Nlr L	14	12.6	12.6	1.3	9.5	14.8	0.7	8	11.7	13.2	12.5	0.5	12.6	0.4	13.7
Nlr R	14	12.8	12.7	1.3	10.0	15.1	0.6	8	12.1	13.4	12.8	0.5	12.9	0.4	14.0
Nmf L	14	6.2	6.0	1.1	4.8	8.4	0.6	8	4.8	6.0	5.5	0.5	5.7	0.4	7.3
Nmf R	14	6.0	6.0	1.1	4.1	8.2	0.7	8	4.9	6.4	5.7	0.5	5.8	0.5	7.2
Mf L	14	7.8	7.3	2.1	4.7	11.9	1.0	8	5.8	8.2	6.9	0.7	6.8	0.6	10.7
Mf R	14	8.2	7.9	1.7	5.5	11.1	1.0	8	7.0	9.0	7.9	0.7	7.8	0.5	10.6
Mnm L	14	3.8	3.6	1.1	2.1	6.4	0.6	8	3.0	4.2	3.6	0.4	3.5	0.2	4.8
Mnm R	14	3.6	3.5	0.9	2.7	6.2	0.4	8	3.0	3.6	3.3	0.3	3.4	0.2	3.9
Nm L	14	4.1	4.0	0.6	3.4	4.9	0.5	8	3.6	4.6	4.0	0.4	3.8	0.2	4.8
Nm R	14	4.3	4.2	0.6	3.5	5.3	0.4	8	3.5	4.4	3.9	0.3	4.0	0.2	4.8
Al L	14	8.4	8.0	1.3	6.8	10.9	1.0	8	6.8	8.6	7.6	0.6	7.6	0.4	9.8
Al R	14	8.4	8.2	1.4	6.5	10.9	0.9	8	6.9	8.6	7.8	0.6	7.7	0.5	10.0

Table B.56 continued

Landmark		Females <24 years, 18.5 > BMI < 25.0 (<i>n</i> = 14)													
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\tilde{x}$	SH MAD	ShorMax
Lno L	14	12.1	12.3	1.9	8.0	15.8	0.8	8	11.4	13.3	12.4	0.7	12.4	0.4	15.0
Lno R	14	11.9	12.0	1.9	8.5	14.9	1.1	8	10.3	13.2	11.8	1.0	12.0	0.9	14.1
Cf L	14	12.3	12.1	1.9	9.0	15.8	1.0	8	11.0	13.6	12.0	0.9	11.9	0.6	14.8
Cf R	14	12.6	12.7	1.6	9.7	15.6	0.8	8	11.3	13.1	12.4	0.6	12.7	0.3	14.2
Sc L	14	12.3	12.3	1.2	11.0	15.1	0.9	8	11.0	12.8	11.6	0.7	11.3	0.4	13.2
Sc R	14	12.5	12.5	1.1	10.9	14.6	1.0	8	11.3	12.8	12.1	0.6	12.2	0.5	13.7
Fe L	13	4.8	4.6	1.0	3.4	6.6	0.5	7	4.0	4.7	4.4	0.3	4.3	0.3	6.1
Fe R	14	4.7	4.7	0.8	3.7	6.1	0.3	8	3.7	4.9	4.3	0.5	4.6	0.2	5.1
Lf L	14	6.0	6.2	1.2	4.0	7.9	0.9	8	5.5	7.3	6.5	0.7	6.5	0.6	7.3
Lf R	14	5.9	6.1	1.2	4.2	8.0	1.0	8	4.4	6.2	5.5	0.8	5.8	0.4	7.3
So L	14	7.3	7.3	1.0	5.3	8.9	0.6	8	6.3	7.5	7.0	0.4	7.1	0.3	8.6
So R	14	7.0	7.1	1.0	5.0	8.2	0.6	8	6.8	8.2	7.6	0.5	7.5	0.6	8.1
Os L	14	7.3	7.4	1.0	5.5	8.8	0.7	8	6.7	8.2	7.5	0.6	7.5	0.4	8.5
Os R	14	7.5	7.6	0.7	6.2	8.9	0.4	8	6.9	7.7	7.4	0.3	7.5	0.2	8.2
Or L	14	7.4	7.6	1.4	4.0	9.0	0.8	8	6.9	8.5	7.7	0.6	7.6	0.5	8.8
Or R	14	7.0	7.0	1.4	4.2	8.9	1.2	8	6.5	8.8	7.5	0.9	7.3	0.8	8.8
Sor L	14	6.7	7.2	1.6	3.3	8.4	0.8	8	6.9	8.4	7.6	0.5	7.7	0.5	8.2
Sor R	14	6.3	6.9	1.7	3.4	8.5	1.2	8	6.8	8.5	7.4	0.6	7.2	0.4	8.4
Smc L	14	28.4	28.2	3.3	23.0	34.8	2.6	8	25.1	30.6	27.3	1.8	27.2	1.4	31.7
Smc R	14	28.0	28.2	2.4	23.6	31.2	1.5	8	28.0	31.2	29.4	1.3	28.9	0.9	31.1
Ecm L	14	31.0	31.1	2.7	25.8	34.8	1.6	8	30.1	34.0	32.0	1.3	32.3	1.1	34.4
Ecm R	14	31.1	31.9	2.6	27.1	34.2	1.6	8	31.1	34.2	32.8	1.0	33.0	0.6	33.7

Table B.56 continued

Landmark		Females <24 years, 18.5 > BMI < 25.0 (<i>n</i> = 14)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{y}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
Ft L	14	6.5	6.1	1.4	4.8	8.5	1.2	8	5.0	7.8	6.0	1.1	5.4	0.4	8.1
Ft R	14	6.6	6.4	1.3	4.4	8.9	1.1	8	5.6	7.6	6.6	0.8	6.5	0.8	8.2
Fmt L	14	6.9	7.0	0.9	5.5	8.7	0.5	8	6.4	7.5	7.0	0.4	7.0	0.4	7.8
Fmt R	14	6.7	6.7	0.9	5.1	8.5	0.7	8	6.2	7.6	6.9	0.5	7.1	0.4	7.5
Fmo L	14	7.5	7.4	1.1	5.9	9.7	0.7	8	6.5	7.8	7.0	0.5	7.1	0.5	8.7
Fmo R	14	7.4	7.3	1.1	5.4	9.3	0.4	8	6.9	7.9	7.3	0.3	7.2	0.3	8.7
Ec L	14	5.5	5.5	0.7	4.2	7.1	0.2	8	5.2	5.7	5.5	0.2	5.5	0.1	6.0
Ec R	14	6.0	5.9	0.9	4.7	8.0	0.6	8	4.8	6.1	5.6	0.4	5.5	0.3	6.8
Mz L	14	10.4	10.6	1.1	8.2	12.3	0.8	8	9.6	10.8	10.3	0.5	10.4	0.4	11.5
Mz R	14	10.6	10.7	1.5	7.8	12.7	1.1	8	9.6	11.8	10.5	0.9	10.3	0.7	12.2
Zm L	14	15.3	15.3	1.5	12.9	19.1	1.0	8	13.9	16.0	15.1	0.8	15.1	0.8	16.4
Zm R	14	14.8	15.0	1.3	12.2	16.9	0.6	8	14.3	15.7	15.0	0.5	15.1	0.3	16.1
Ol L	14	23.3	23.3	2.5	19.1	28.0	1.6	8	20.2	23.8	22.4	1.2	22.2	1.1	25.8
Ol R	14	23.4	23.5	2.0	19.6	26.5	1.1	8	22.2	24.3	23.3	0.8	23.5	0.4	25.4
Ju L	14	10.6	10.3	1.5	8.3	14.2	0.7	8	9.3	11.1	10.3	0.6	10.1	0.5	12.1
Ju R	14	10.7	10.5	1.4	8.9	14.1	1.1	8	8.9	10.9	9.9	0.7	9.8	0.6	11.9
Zy L	9	8.6	8.2	2.0	6.0	11.8									
Zy R	10	8.9	8.9	1.8	6.6	12.3	1.1	8	8.9	10.9	9.9	0.7	9.8	0.6	11.9
Sgl L	9	10.9	11.1	2.2	6.9	14.2									
Sgl R	9	11.5	12.1	2.0	8.0	13.6									
Cdl L	7	13.5	13.2	3.1	9.8	17.7									
Cdl R	10	14.2	14.7	2.4	10.3	18.0	1.4	6	12.8	16.3	14.7	1.3	15.3	1.0	16.3

Table B.57 - Facial soft tissue thicknesses (mm), males 25-34 years, 25.0 > BMI < 30.0

Landmark		Males 25-34 years, 25.0 > BMI < 30.0 (<i>n</i> = 9)				
Unilateral	<i>n</i>	$\bar{x}$	$\check{x}$	σ	Min.	Max.
M	9	4.9	4.9	0.7	4.0	6.1
Sg	9	6.1	6.3	0.8	5.0	7.0
G	9	6.0	6.2	0.6	5.0	7.0
N	9	9.1	8.7	1.2	8.0	11.4
Mn	9	6.3	6.2	0.8	4.8	7.5
Rhi	9	3.9	4.0	0.5	3.4	4.9
Ss	9	17.8	16.5	3.0	15.4	22.7
Mp	9	14.5	14.9	1.5	12.8	17.0
Pr	9	13.3	13.4	2.1	10.3	17.3
Ids	9	14.3	14.0	1.7	11.7	17.1
Bilateral						
Nlr L	9	15.5	15.0	1.5	13.8	17.9
Nlr R	9	15.1	15.3	1.0	13.5	16.6
Nmf L	9	7.8	7.8	1.1	5.5	9.0
Nmf R	9	7.2	7.2	1.3	5.2	10.0
Mf L	9	8.6	8.7	1.2	7.1	10.9
Mf R	9	9.0	8.5	1.7	6.9	12.8
Mnm L	9	3.8	4.0	0.6	2.9	4.9
Mnm R	9	3.6	3.6	0.4	2.9	4.5
Nm L	9	5.2	5.1	0.9	4.2	7.2
Nm R	9	5.3	5.1	0.9	4.2	7.0
Al L	9	9.7	9.5	1.2	8.0	11.5
Al R	9	9.3	9.2	0.8	8.3	10.6
Lno L	9	14.1	13.8	1.8	11.0	17.2
Lno R	9	14.9	15.1	1.6	12.5	17.0
Cf L	9	15.2	15.4	2.5	10.7	18.2
Cf R	9	14.3	14.1	1.5	11.3	16.6
Sc L	9	15.3	15.0	1.7	13.2	18.1
Sc R	9	14.7	14.8	0.8	13.4	16.0
Fe L	9	5.4	5.3	0.8	4.3	6.8
Fe R	9	5.3	5.2	0.9	4.4	7.5
Lf L	9	6.7	6.7	0.6	5.7	7.4
Lf R	9	7.0	6.8	0.9	5.7	8.3
So L	9	8.4	8.8	1.4	6.4	10.8
So R	9	8.2	8.1	1.4	5.7	10.1
Os L	9	9.9	9.7	1.0	8.4	11.6
Os R	9	10.0	9.7	0.9	8.9	11.3
Or L	9	6.7	6.6	1.3	4.7	9.2
Or R	9	6.5	6.7	1.2	4.8	8.5

Table B.57 continued

Landmark		Males 25-34 years, 25.0 > BMI < 30.0 (<i>n</i> = 9)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	9	6.7	6.7	1.7	4.1	9.0
Sor R	9	6.3	6.4	1.3	4.4	7.8
Smc L	9	31.2	30.8	2.3	28.5	35.3
Smc R	9	29.8	29.5	2.3	26.1	33.6
Ecm L	9	33.0	34.1	3.3	28.7	39.1
Ecm R	9	33.2	34.0	3.0	27.1	36.4
Ft L	9	7.4	7.2	1.3	5.5	8.9
Ft R	9	7.0	7.6	1.0	5.5	8.0
Fmt L	9	8.7	8.8	1.2	6.8	11.1
Fmt R	9	8.0	8.3	1.3	6.2	10.3
Fmo L	9	8.5	8.0	1.7	6.6	12.1
Fmo R	9	8.0	1.4	1.4	5.9	10.2
Ec L	9	5.4	5.1	1.1	3.9	7.8
Ec R	9	5.6	5.8	1.1	3.9	7.7
Mz L	9	9.1	9.6	1.1	7.1	10.5
Mz R	9	9.1	9.2	1.2	6.7	10.3
Zm L	9	14.0	14.4	1.7	11.4	15.6
Zm R	9	13.6	13.5	1.7	10.2	16.2
Ol L	9	26.9	26.7	1.2	25.2	28.7
Ol R	9	26.4	26.2	1.7	23.7	29.1
Ju L	9	9.9	9.7	1.7	7.5	12.8
Ju R	9	9.6	9.8	1.5	6.8	11.7
Zy L	7	8.6	7.9	1.3	7.4	10.6
Zy R	7	9.1	8.9	1.2	7.5	10.6
Sgl L						
Sgl R	6	13.6	13.7	1.4	11.7	15.1
Cdl L	4	17.6	18.0	2.6	14.2	20.4
Cdl R	7	17.2	16.6	2.2	15.0	21.5

Table B.58 - Facial soft tissue thicknesses (mm), females 25-34 years, 25.0 > BMI < 30.0

Landmark		Females 25-34 years, 25.0 > BMI < 30.0 (<i>n</i> = 5)				
Unilateral	<i>n</i>	$\bar{x}$	$\check{x}$	σ	Min.	Max
M	5	4.7	4.8	0.4	4.2	5.2
Sg	5	5.5	5.8	0.7	4.7	6.4
G	5	5.7	5.7	0.5	4.9	6.4
N	5	7.2	7.3	1.0	5.6	8.2
Mn	5	4.9	5.0	0.7	4.2	5.9
Rhi	5	3.2	3.0	1.1	1.8	4.9
Ss	5	14.1	14.4	1.0	12.8	15.1
Mp	5	11.8	11.7	0.5	11.1	12.5
Pr	5	12.2	11.7	2.6	9.4	16.0
Ids	5	12.2	12.3	1.0	11.1	13.8
Bilateral						
Nlr L	5	12.0	12.0	1.1	10.6	13.6
Nlr R	5	12.0	12.4	0.9	10.5	12.9
Nmf L	5	6.5	6.7	1.2	5.2	8.1
Nmf R	5	6.1	5.6	1.2	4.8	7.7
Mf L	5	9.1	9.0	2.3	5.8	11.6
Mf R	5	8.4	7.9	2.5	5.9	12.3
Mnm L	5	3.7	3.7	0.6	3.2	4.6
Mnm R	5	3.9	3.8	1.2	2.5	5.7
Nm L	5	4.2	4.1	1.5	2.3	6.3
Nm R	5	4.5	5.0	2.2	2.2	7.4
Al L	5	8.8	8.5	0.9	7.8	10.1
Al R	5	8.9	8.8	0.7	8.2	9.8
Lno L	5	13.3	12.8	2.5	10.3	15.9
Lno R	5	13.2	12.5	2.3	10.8	17.0
Cf L	5	12.3	12.2	1.4	10.5	14.1
Cf R	5	12.4	12.2	1.5	10.5	14.3
Sc L	5	11.6	12.2	1.5	9.2	13.0
Sc R	5	11.8	11.8	1.4	10.0	13.1
Fe L	5	5.0	5.0	0.6	4.0	5.8
Fe R	5	5.0	4.8	1.0	3.7	6.2
Lf L	5	6.6	6.9	0.9	5.0	7.2
Lf R	5	6.1	6.2	0.9	4.7	7.2
So L	5	7.9	8.0	0.7	6.8	8.7
So R	5	7.7	8.1	1.3	5.4	8.7
Os L	5	8.4	8.7	1.1	6.4	9.3
Os R	5	8.2	8.7	1.5	5.6	9.5
Or L	5	7.4	8.2	1.7	5.3	9.1
Or R	5	7.1	7.2	1.4	5.6	8.8

Table B.58 continued

Landmark		Females 25-34 years, 25.0 > BMI < 30.0 (<i>n</i> = 5)				
Bilateral	<i>n</i>	$\bar{x}$	$\check{x}$	σ	Min.	Max
Sor L	5	7.7	7.8	1.3	5.7	9.0
Sor R	5	7.0	7.0	1.5	5.4	8.6
Smc L	5	31.4	29.5	3.7	28.4	37.0
Smc R	5	29.8	29.1	2.9	27.1	33.8
Ecm L	5	33.9	32.5	3.8	30.3	40.1
Ecm R	5	33.6	32.5	3.5	29.9	39.2
Ft L	5	7.7	7.7	1.9	5.3	10.1
Ft R	5	7.6	7.2	2.3	4.6	10.8
Fmt L	5	7.7	7.5	2.2	5.5	11.0
Fmt R	5	7.5	6.7	2.5	5.1	11.6
Fmo L	5	8.1	8.9	2.4	3.9	10.0
Fmo R	5	7.3	7.8	2.0	3.7	8.8
Ec L	5	6.0	6.5	2.4	3.1	9.0
Ec R	5	5.7	5.4	1.6	3.4	7.4
Mz L	5	10.7	10.9	0.6	9.8	11.3
Mz R	5	11.0	11.1	0.6	10.1	11.8
Zm L	5	14.9	15.7	1.2	13.0	15.8
Zm R	5	15.3	15.7	1.4	12.9	16.4
Ol L	5	26.4	25.3	3.0	24.0	31.4
Ol R	5	25.0	25.7	1.5	23.2	26.0
Ju L	5	11.7	11.6	1.2	10.4	13.0
Ju R						
Zy L						
Zy R						
Sgl L						
Sgl R						
Cdl L	4	16.3	16.2	2.6	13.9	18.8
Cdl R						

Table B.59 - Facial soft tissue thicknesses (mm), males 35-44 years, 25.0 > BMI < 30.0

Landmark		Males 35-44 years, 25.0 > BMI < 30.0 (<i>n</i> = 14)													
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
M	14	5.3	5.3	0.6	4.3	6.6	0.3	8	5.1	5.9	5.4	0.3	5.3	0.2	6.1
Sg	14	6.4	6.6	0.9	4.7	8.4	0.3	8	6.2	6.9	6.6	0.2	6.7	0.1	6.9
G	14	6.1	6.0	0.8	4.4	7.7	0.3	8	5.6	6.3	6.0	0.2	6.0	0.1	7.1
N	14	9.0	8.5	1.7	6.6	12.8	1.2	8	6.6	8.8	7.9	0.8	8.3	0.3	10.4
Mn	14	6.3	6.0	1.5	4.9	10.6	0.7	8	5.0	6.5	5.9	0.5	5.9	0.5	7.0
Rhi	14	4.0	3.7	1.3	2.5	6.1	1.0	8	2.6	4.8	3.7	0.9	3.4	0.5	5.6
Ss	14	16.1	16.1	1.9	12.8	21.0	0.7	8	15.3	16.8	16.1	0.6	16.2	0.5	17.1
Mp	14	14.6	14.6	1.5	12.0	17.0	1.0	8	13.2	15.7	14.5	1.0	14.0	0.9	16.4
Pr	14	13.0	13.1	1.6	10.1	15.8	1.2	8	12.1	14.8	13.6	0.9	13.3	0.4	14.8
Ids	14	15.3	15.2	2.1	12.5	19.5	1.2	8	13.4	16.1	14.9	1.0	15.2	0.9	17.1
Bilateral															
Nlr L	14	15.6	15.5	1.2	13.7	17.5	0.9	8	13.7	15.5	14.8	0.7	15.1	0.4	17.1
Nlr R	14	16.0	15.9	1.8	13.4	19.8	1.2	8	14.1	16.7	15.4	1.0	15.2	0.7	17.6
Nmf L	14	8.9	8.2	2.0	6.5	12.5	1.4	8	6.5	8.8	7.6	0.8	7.6	0.6	10.6
Nmf R	14	7.8	8.2	1.5	4.6	9.6	1.1	8	7.0	8.9	7.8	0.7	8.1	0.7	9.3
Mf L	14	9.6	9.0	2.7	5.7	14.4	1.5	8	6.7	9.8	8.5	1.1	8.7	0.6	12.1
Mf R	14	9.9	9.8	2.3	6.7	13.5	2.2	8	6.7	10.5	8.5	1.5	8.4	1.1	12.8
Mnm L	13	4.0	3.4	1.4	2.3	7.6	0.3	7	3.0	4.0	3.3	0.3	3.2	0.1	4.8
Mnm R	14	4.0	3.7	1.0	3.0	6.2	0.5	8	3.0	4.1	3.4	0.4	3.3	0.1	4.8
Nm L	14	5.5	5.2	1.5	3.7	8.5	0.7	8	3.7	5.2	4.6	0.6	4.9	0.3	6.5
Nm R	14	5.7	5.7	1.3	3.9	8.1	0.8	8	4.2	5.9	5.2	0.6	5.5	0.5	6.9
Al L	14	10.2	10.1	1.6	7.1	13.5	1.0	8	9.4	11.5	10.6	0.8	10.8	0.5	11.4
Al R	14	10.5	9.9	1.6	8.3	13.4	0.9	8	8.3	10.2	9.5	0.6	9.6	0.3	12.1

Table B.59 continued

Landmark		Males 35-44 years, 25.0 > BMI < 30.0 (<i>n</i> = 14)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
Lno L	14	14.6	14.3	2.7	10.1	18.5	2.2	8	14.1	18.5	16.2	1.7	16.5	2.0	18.2
Lno R	14	14.4	14.1	2.4	10.1	18.3	1.9	8	12.4	16.4	14.2	1.5	13.7	1.1	17.1
Cf L	14	13.8	14.0	1.7	9.4	16.7	1.0	8	13.2	15.3	14.4	0.8	14.4	0.6	15.3
Cf R	14	14.1	13.6	2.9	9.7	20.2	1.1	8	12.2	14.7	13.4	0.9	13.1	0.9	16.7
Sc L	14	14.2	13.9	1.8	10.9	18.4	1.1	8	13.3	15.4	14.2	0.8	13.9	0.4	16.2
Sc R	14	14.1	14.3	1.5	11.4	16.0	0.7	8	14.2	16.0	14.9	0.8	14.5	0.3	16.0
Fe L	14	5.7	5.8	0.7	4.5	6.9	0.6	8	5.6	6.5	5.9	0.3	5.8	0.1	6.6
Fe R	14	5.5	5.4	0.9	4.0	7.1	0.7	8	4.5	5.9	5.1	0.5	5.0	0.5	6.4
Lf L	14	7.3	7.3	1.0	5.3	9.1	0.8	8	6.9	8.2	7.6	0.5	7.7	0.5	8.2
Lf R	14	7.3	7.3	1.0	5.8	9.1	0.7	8	5.8	7.4	6.9	0.6	7.2	0.1	8.2
So L	14	8.8	8.6	1.2	7.2	11.6	0.5	8	8.3	9.4	8.8	0.4	8.6	0.2	10.7
So R	14	8.9	8.6	1.3	7.2	12.5	0.5	8	8.0	8.9	8.4	0.3	8.4	0.3	9.6
Os L	14	10.1	10.2	1.4	7.7	12.1	1.3	8	9.8	12.1	11.0	0.9	11.0	0.9	12.0
Os R	14	10.4	10.5	1.7	7.5	13.0	1.5	8	8.9	12.0	10.7	1.1	10.5	1.0	12.5
Or L	14	7.8	7.6	2.3	4.6	12.9	1.0	8	6.5	9.0	7.7	0.9	7.8	0.7	10.1
Or R	14	7.6	6.9	1.7	5.1	11.2	1.1	8	6.1	8.9	7.2	1.0	6.8	0.7	9.6
Sor L	14	7.1	6.9	2.0	3.9	11.0	1.4	8	5.5	8.4	6.8	1.0	6.7	0.7	9.3
Sor R	14	6.9	6.9	1.7	3.5	9.5	1.2	8	5.3	7.6	6.4	0.9	6.5	0.8	8.6
Smc L	14	33.9	35.1	3.8	27.1	38.9	2.4	8	33.8	38.9	36.3	1.6	36.1	1.0	38.2
Smc R	14	33.8	34.3	3.2	26.7	40.2	1.5	8	32.3	35.9	34.3	1.1	34.5	0.7	36.5
Ecm L	12	37.2	37.4	4.5	28.8	42.5	3.1	7	36.3	41.4	38.9	2.1	38.9	1.8	41.4
Ecm R	14	37.2	38.2	3.6	29.1	42.1	2.4	8	37.6	42.1	39.5	1.5	39.2	1.0	41.4

Table B.59 continued

Landmark		Males 35-44 years, 25.0 > BMI < 30.0 (<i>n</i> = 14)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
Lno L	14	14.6	14.3	2.7	10.1	18.5	2.2	8	14.1	18.5	16.2	1.7	16.5	2.0	18.2
Lno R	14	14.4	14.1	2.4	10.1	18.3	1.9	8	12.4	16.4	14.2	1.5	13.7	1.1	17.1
Cf L	14	13.8	14.0	1.7	9.4	16.7	1.0	8	13.2	15.3	14.4	0.8	14.4	0.6	15.3
Cf R	14	14.1	13.6	2.9	9.7	20.2	1.1	8	12.2	14.7	13.4	0.9	13.1	0.9	16.7
Sc L	14	14.2	13.9	1.8	10.9	18.4	1.1	8	13.3	15.4	14.2	0.8	13.9	0.4	16.2
Sc R	14	14.1	14.3	1.5	11.4	16.0	0.7	8	14.2	16.0	14.9	0.8	14.5	0.3	16.0
Fe L	14	5.7	5.8	0.7	4.5	6.9	0.6	8	5.6	6.5	5.9	0.3	5.8	0.1	6.6
Fe R	14	5.5	5.4	0.9	4.0	7.1	0.7	8	4.5	5.9	5.1	0.5	5.0	0.5	6.4
Lf L	14	7.3	7.3	1.0	5.3	9.1	0.8	8	6.9	8.2	7.6	0.5	7.7	0.5	8.2
Lf R	14	7.3	7.3	1.0	5.8	9.1	0.7	8	5.8	7.4	6.9	0.6	7.2	0.1	8.2
So L	14	8.8	8.6	1.2	7.2	11.6	0.5	8	8.3	9.4	8.8	0.4	8.6	0.2	10.7
So R	14	8.9	8.6	1.3	7.2	12.5	0.5	8	8.0	8.9	8.4	0.3	8.4	0.3	9.6
Os L	14	10.1	10.2	1.4	7.7	12.1	1.3	8	9.8	12.1	11.0	0.9	11.0	0.9	12.0
Os R	14	10.4	10.5	1.7	7.5	13.0	1.5	8	8.9	12.0	10.7	1.1	10.5	1.0	12.5
Or L	14	7.8	7.6	2.3	4.6	12.9	1.0	8	6.5	9.0	7.7	0.9	7.8	0.7	10.1
Or R	14	7.6	6.9	1.7	5.1	11.2	1.1	8	6.1	8.9	7.2	1.0	6.8	0.7	9.6
Sor L	14	7.1	6.9	2.0	3.9	11.0	1.4	8	5.5	8.4	6.8	1.0	6.7	0.7	9.3
Sor R	14	6.9	6.9	1.7	3.5	9.5	1.2	8	5.3	7.6	6.4	0.9	6.5	0.8	8.6
Smc L	14	33.9	35.1	3.8	27.1	38.9	2.4	8	33.8	38.9	36.3	1.6	36.1	1.0	38.2
Smc R	14	33.8	34.3	3.2	26.7	40.2	1.5	8	32.3	35.9	34.3	1.1	34.5	0.7	36.5
Ecm L	12	37.2	37.4	4.5	28.8	42.5	3.1	7	36.3	41.4	38.9	2.1	38.9	1.8	41.4
Ecm R	14	37.2	38.2	3.6	29.1	42.1	2.4	8	37.6	42.1	39.5	1.5	39.2	1.0	41.4

**Table B.60 - Facial soft tissue thicknesses (mm), females 35-44 years,
25.0 > BMI < 30.0**

Landmark		Females 35-44 years, 25.0 > BMI < 30.0 (<i>n</i> = 5)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	5	4.6	4.5	0.5	4.1	5.4
Sg	5	5.7	5.7	0.4	5.0	6.2
G	5	6.0	5.8	0.7	5.3	7.0
N	5	8.0	7.7	0.8	7.4	9.3
Mn	5	5.0	4.9	0.4	4.6	5.6
Rhi	5	2.6	2.4	0.6	2.0	3.4
Ss	5	12.7	10.6	3.9	8.9	17.6
Mp	5	11.5	10.4	2.5	9.5	15.5
Pr	4	10.7	10.7	1.3	9.0	12.2
Ids						
Bilateral						
Nlr L	5	12.9	13.4	1.5	10.5	14.0
Nlr R	5	12.2	12.1	1.2	10.7	14.0
Nmf L	5	6.1	6.8	1.5	3.8	7.2
Nmf R	5	5.8	5.9	1.3	3.7	7.2
Mf L	5	7.0	7.2	0.9	5.9	8.3
Mf R	5	7.9	8.1	1.7	6.1	10.2
Mnm L	5	3.3	3.3	0.4	2.9	3.7
Mnm R	5	3.7	3.8	0.5	3.0	4.3
Nm L	5	3.8	3.6	0.8	3.1	5.0
Nm R	5	4.1	4.0	0.7	3.2	4.8
Al L	5	9.3	9.5	0.6	8.3	9.9
Al R	5	9.6	9.7	1.3	8.0	11.4
Lno L	5	13.1	11.1	2.9	10.9	16.8
Lno R	5	12.7	11.8	2.0	10.5	15.1
Cf L	5	13.2	12.6	2.9	10.5	17.3
Cf R	5	13.9	13.7	3.1	9.7	18.4
Sc L	4	11.3	11.2	1.0	10.5	12.5
Sc R	5	11.5	12.1	1.4	9.2	12.7
Fe L	5	5.3	5.8	0.9	4.1	6.3
Fe R	5	4.6	4.7	0.4	4.1	5.2
Lf L	5	6.9	6.8	0.6	6.2	7.8
Lf R	5	6.4	6.5	0.6	5.8	7.2
So L	5	7.8	7.6	0.7	7.2	9.0
So R	5	8.1	7.8	0.8	7.4	9.4
Os L	5	8.2	8.3	1.7	5.5	9.7
Os R	5	8.1	8.4	1.6	6.3	10.0
Or L	5	7.4	6.4	2.2	5.6	10.6
Or R	5	7.4	6.7	2.0	5.3	9.5

Table B.60 continued

Landmark		Females 35-44 years, 25.0 > BMI < 30.0 (<i>n</i> = 5)				
Bilateral	<i>n</i>	$\bar{x}$	$\bar{y}$	σ	Min.	Max.
Sor L	5	6.9	6.5	2.3	4.1	9.6
Sor R	5	7.0	7.5	2.2	4.1	9.3
Smc L	5	28.8	28.7	2.4	26.3	31.6
Smc R	5	30.1	30.3	1.5	27.7	31.4
Ecm L	4	31.0	31.2	2.2	28.4	33.1
Ecm R	5	32.8	32.7	1.2	31.4	34.0
Ft L	5	5.9	5.8	0.6	5.3	6.7
Ft R	5	5.9	5.8	0.8	4.8	6.8
Fmt L	5	7.3	8.4	1.6	5.1	8.6
Fmt R	5	7.1	7.3	1.8	4.7	9.2
Fmo L	5	8.1	8.6	1.8	5.8	10.7
Fmo R	5	8.1	8.7	2.6	4.2	11.0
Ec L	5	5.2	5.4	1.0	3.4	5.9
Ec R	5	6.3	7.0	2.0	3.4	8.2
Mz L	5	11.3	11.2	1.2	9.9	13.2
Mz R	5	11.6	11.4	0.9	10.5	13.1
Zm L	5	15.2	15.1	1.5	13.4	17.0
Zm R	5	15.4	14.8	1.6	13.7	17.1
Ol L	4	24.5	24.5	2.4	21.7	27.4
Ol R	4	24.5	24.1	2.7	21.6	28.1
Ju L	4	11.0	10.4	1.5	9.9	13.3
Ju R	4	11.4	11.1	1.3	10.4	13.2
Zy L						
Zy R	4	9.9	9.8	2.1	7.5	12.4
Sgl L						
Sgl R						
Cdl L						
Cdl R	4	16.7	16.2	3.8	13.0	21.6

Table B.61 - Facial soft tissue thicknesses (mm), males 35-44 years, 30.0 > BMI

Landmark		Males 35-44 years, 30.0 > BMI (<i>n</i> = 9)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	9	5.2	5.0	1.0	3.8	7.2
Sg	9	6.9	6.2	1.3	5.8	9.9
G	9	6.4	6.4	0.9	5.5	8.4
N	9	9.6	10.0	1.5	7.7	11.8
Mn	9	7.4	7.2	1.1	5.7	8.9
Rhi	9	4.1	3.9	1.0	2.6	6.3
Ss	9	16.8	16.7	1.3	14.9	19.0
Mp	9	15.0	14.9	0.7	14.0	16.2
Pr	8	14.3	14.0	1.8	12.2	17.1
Ids	7	15.8	15.7	1.8	12.2	17.6
Bilateral						
Nlr L	8	16.0	15.9	1.6	13.6	18.0
Nlr R	8	16.1	15.6	1.6	14.5	18.8
Nmf L	9	8.9	8.3	1.3	7.6	11.5
Nmf R	9	8.6	8.2	1.4	6.8	10.6
Mf L	9	11.1	10.9	2.1	7.6	14.2
Mf R	9	10.6	11.1	1.8	8.0	13.2
Mnm L	9	4.3	4.1	0.9	3.2	5.7
Mnm R	9	4.0	3.9	0.8	2.6	5.2
Nm L	9	5.2	4.9	1.5	3.9	8.8
Nm R	9	5.3	5.3	1.2	3.1	7.6
Al L	9	10.6	10.4	1.0	9.5	12.7
Al R	9	10.3	10.5	0.7	9.2	11.1
Lno L	9	16.5	16.7	1.1	15.1	18.4
Lno R	9	15.7	15.1	1.5	14.2	18.1
Cf L	9	15.6	15.3	1.7	13.4	18.7
Cf R	9	15.7	14.8	2.3	13.4	20.0
Sc L	9	16.0	15.7	2.5	12.5	20.5
Sc R	9	15.6	15.9	2.3	12.4	19.2
Fe L	9	6.0	5.7	1.3	4.3	8.3
Fe R	9	5.8	5.8	1.1	4.0	7.7
Lf L	9	7.8	7.7	1.3	5.8	9.9
Lf R	9	7.6	7.3	1.6	5.0	9.7
So L	9	9.2	9.2	1.6	6.9	12.0
So R	9	9.0	9.2	1.7	6.2	11.5
Os L	9	10.9	10.6	1.0	9.6	12.8
Os R	9	10.5	10.4	1.9	6.4	13.2
Or L	9	8.8	8.7	2.4	5.3	13.8
Or R	9	8.4	7.8	2.3	4.9	11.8

Table B.61 continued

Landmark		Males 35-44 years, 30.0 > BMI (<i>n</i> = 9)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	9	8.5	8.1	2.2	5.1	12.4
Sor R	9	8.2	8.2	1.9	5.8	11.6
Smc L	9	37.1	36.4	4.7	31.5	47.1
Smc R	8	34.8	34.1	1.9	32.6	38.1
Ecm L	7	38.5	38.3	2.9	34.6	42.4
Ecm R	6	38.0	37.9	2.0	34.9	40.7
Ft L	9	8.6	8.4	2.3	6.2	13.1
Ft R	9	8.5	7.5	2.5	6.1	13.7
Fmt L	9	9.1	8.7	1.8	6.9	13.2
Fmt R	9	8.9	8.2	2.3	7.2	14.6
Fmo L	9	10.2	9.3	3.1	6.1	17.1
Fmo R	9	10.1	9.4	2.8	7.6	16.7
Ec L	9	6.1	5.1	2.2	3.4	11.0
Ec R	9	6.6	5.9	2.3	4.0	12.0
Mz L	9	11.9	11.3	2.1	9.1	15.8
Mz R	9	11.6	11.1	2.1	9.4	16.1
Zm L	9	18.1	18.5	2.2	14.1	21.4
Zm R	9	17.2	16.8	2.2	13.4	20.3
Ol L	6	34.7	34.9	2.6	31.5	38.9
Ol R	6	33.2	33.6	2.2	30.3	35.7
Ju L	8	11.7	12.0	1.4	9.3	13.5
Ju R	8	11.6	11.5	1.2	9.6	13.2
Zy L	4	13.3	13.2	2.0	11.1	15.9
Zy R	7	12.4	12.4	1.5	10.8	14.4
Sgl L	4	17.4	16.9	1.4	16.5	19.5
Sgl R	6	16.1	16.0	1.9	13.5	18.5
Cdl L	4	21.0	20.1	6.0	15.4	28.5
Cdl R	6	19.8	20.0	3.7	15.2	24.7

Table B.62 - Facial soft tissue thicknesses (mm), females 35-44 years, 30.0 > BMI

Landmark		Females 35-44 years, 30.0 > BMI (<i>n</i> = 8)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	8	5.0	5.1	0.8	4.0	6.0
Sg	8	6.0	6.2	0.9	4.5	7.1
G	8	6.2	6.3	0.8	5.0	7.3
N	8	8.1	7.9	1.5	6.7	11.3
Mn	8	5.8	5.7	1.3	4.4	8.1
Rhi	8	3.5	3.3	0.8	2.7	5.2
Ss	8	16.0	16.3	1.5	13.4	18.5
Mp	8	13.1	13.7	1.3	11.2	14.7
Pr	8	11.3	10.8	1.3	9.8	13.7
Ids	8	12.6	12.8	0.5	11.7	13.4
Bilateral						
Nlr L	8	13.9	13.8	0.5	13.2	14.6
Nlr R	8	13.8	13.9	0.4	13.2	14.3
Nmf L	8	8.0	7.4	2.0	6.5	12.5
Nmf R	8	7.6	7.5	1.6	5.5	10.9
Mf L	8	9.2	8.4	2.8	6.5	13.9
Mf R	8	9.8	8.9	2.4	7.6	14.8
Mnm L	8	4.3	4.4	0.6	3.6	5.0
Mnm R	8	4.4	4.6	0.6	3.3	5.2
Nm L	8	5.2	5.0	1.3	3.4	6.8
Nm R	8	5.1	5.2	0.8	4.2	6.6
Al L	8	9.8	9.4	1.5	8.0	12.5
Al R	8	10.2	10.1	1.6	8.2	12.6
Lno L	8	15.2	15.5	1.8	12.4	18.0
Lno R	8	14.8	15.5	1.6	12.3	16.4
Cf L	8	14.2	13.9	1.9	11.4	17.4
Cf R	8	14.0	13.7	1.1	12.9	16.3
Sc L	8	12.2	12.0	1.0	11.0	13.3
Sc R	8	12.2	12.0	1.1	10.6	13.6
Fe L	8	5.8	6.0	0.9	4.3	7.2
Fe R	8	5.4	5.1	1.0	4.4	7.0
Lf L	8	7.0	6.7	0.6	6.5	8.1
Lf R	8	6.9	6.6	1.3	5.3	8.9
So L	8	9.3	9.4	1.1	6.9	10.4
So R	8	9.0	8.7	1.4	7.1	11.5
Os L	8	9.4	9.8	1.8	7.1	12.4
Os R	8	9.5	9.4	1.4	7.9	12.0
Or L	8	9.1	8.6	1.2	8.0	10.8
Or R	8	8.9	9.3	1.2	6.5	10.3

Table B.62 continued

Landmark		Females 35-44 years, 30.0 > BMI (<i>n</i> = 8)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	8	9.1	8.9	1.7	7.4	11.8
Sor R	8	8.7	9.0	1.9	5.9	10.8
Smc L	7	36.6	36.9	2.7	32.5	40.0
Smc R	8	36.2	36.4	2.6	32.7	40.2
Ecm L	6	38.9	38.1	2.7	36.2	42.8
Ecm R	7	38.7	38.6	2.0	36.1	41.1
Ft L	8	8.8	8.8	1.5	6.9	10.6
Ft R	8	9.0	9.4	1.0	7.5	10.1
Fmt L	8	8.6	8.8	1.7	6.2	11.7
Fmt R	8	8.7	8.8	1.2	7.1	10.8
Fmo L	8	9.4	10.1	2.0	6.3	12.2
Fmo R	8	8.9	9.3	1.5	6.4	10.7
Ec L	8	6.5	7.2	1.6	3.6	8.0
Ec R	8	7.0	6.9	1.0	5.4	8.2
Mz L	8	12.5	12.6	0.8	11.0	13.5
Mz R	8	12.6	12.7	1.0	10.7	13.6
Zm L	8	17.4	17.4	1.8	14.8	19.6
Zm R	8	17.1	17.1	1.9	13.3	19.5
OI L	6	29.9	28.7	3.9	26.3	36.3
OI R	6	29.6	29.2	3.2	26.1	33.4
Ju L	7	13.6	13.2	1.1	12.4	15.4
Ju R	8	14.1	14.1	1.8	11.4	16.9
Zy L	4	12.5	12.3	2.0	10.3	15.1
Zy R	5	14.4	12.1	4.1	10.6	20.5
Sgl L	5	15.3	15.1	1.4	13.4	17.2
Sgl R	5	16.0	16.0	1.4	14.6	17.8
Cdl L	4	16.3	15.1	3.8	13.3	21.8
Cdl R	4	18.5	18.7	4.9	12.5	24.1

Table B.63 - Facial soft tissue thicknesses (mm), males 45-54 years, 18.5 > BMI < 25.0

Landmark		Males 45-54 years, 18.5 > BMI < 25.0 (<i>n</i> = 10)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
M	10	4.8	4.6	1.3	3.7	7.5	0.6	6	3.7	4.8	4.2	0.5	4.2	0.5	5.7
Sg	10	5.6	5.2	1.2	4.0	7.5	0.9	6	4.4	6.4	5.3	0.8	5.2	0.5	7.4
G	10	5.2	5.2	0.7	4.2	6.6	0.4	6	4.6	5.4	5.0	0.3	5.1	0.3	5.5
N	10	8.2	8.0	1.1	6.6	10.3	0.4	6	7.2	8.3	7.9	0.4	8.0	0.3	9.2
Mn	10	6.4	6.5	0.9	4.8	7.4	0.6	6	6.1	7.2	6.6	0.5	6.7	0.5	7.2
Rhi	10	3.5	3.2	1.0	2.4	5.6	0.5	6	2.4	3.6	3.0	0.4	3.1	0.2	4.3
Ss	10	14.9	14.1	2.3	12.7	19.1	0.9	6	12.7	14.1	13.5	0.6	13.7	0.4	17.4
Mp	9	13.7	13.4	1.3	11.7	15.9									
Pr	9	11.4	11.3	1.5	9.9	15.0									
Ids	7	12.6	12.1	2.8	9.0	17.8									
Bilateral															
Nlr L	10	14.6	14.6	1.5	12.8	17.2	1.1	6	13.0	15.6	14.3	1.1	14.3	1.2	15.8
Nlr R	10	14.4	14.5	1.7	11.5	17.0	1.3	6	13.4	16.0	14.7	1.0	14.5	0.9	16.2
Nmf L	10	7.5	6.9	1.7	4.6	10.1	1.2	6	6.6	9.3	7.8	1.2	7.0	0.3	9.5
Nmf R	10	7.5	6.7	1.5	5.7	9.9	0.7	6	6.3	8.8	7.1	1.1	6.4	0.2	9.4
Mf L	10	8.2	8.3	2.0	5.5	11.3	1.8	6	6.3	10.2	8.5	1.4	8.5	1.3	10.5
Mf R	10	8.1	7.4	2.4	5.5	13.0	1.6	6	5.5	9.1	6.9	1.3	6.8	0.9	10.1
Mnm L	8	3.4	3.0	0.9	2.7	5.3									
Mnm R	10	3.3	3.3	0.7	2.4	4.3	0.5	6	2.4	3.5	2.9	0.4	3.0	0.3	3.9
Nm L	10	4.6	4.4	1.0	3.4	6.7	0.3	6	3.8	4.7	4.3	0.4	4.1	0.4	6.1
Nm R	10	4.9	4.5	1.2	3.9	8.1	0.4	6	3.9	4.8	4.3	0.3	4.2	0.3	5.2
Al L	10	9.0	8.6	1.3	6.9	11.8	0.5	6	8.2	9.8	8.8	0.6	8.5	0.3	10.6
Al R	10	9.2	9.0	1.4	7.4	10.9	1.4	6	8.3	10.9	9.9	1.1	10.4	0.6	10.8

Table B.63 continued

Landmark		Males 45-54 years, 18.5 > BMI < 25.0 (<i>n</i> = 10)													
Bilateral	<i>n</i>	$\bar{X}$	$\bar{X}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{X}$	SH MAD	ShorMax
Lno L	10	13.1	13.2	1.6	10.8	16.0	1.0	6	10.8	13.4	12.3	1.1	12.8	0.6	14.3
Lno R	10	13.1	13.4	2.0	9.8	15.7	1.3	6	11.9	14.8	13.5	1.2	14.1	0.8	14.8
Cf L	10	13.7	13.2	2.4	9.7	18.1	1.0	6	11.8	14.5	13.2	0.9	13.2	0.4	17.1
Cf R	10	14.4	15.1	3.1	8.8	18.1	2.7	6	12.6	18.1	16.0	2.0	15.3	2.2	18.0
Sc L	9	13.2	12.6	2.9	10.2	20.1									
Sc R	9	13.2	12.8	2.3	9.7	17.7									
Fe L	10	5.5	5.8	0.8	3.6	6.1	0.2	6	5.5	6.1	5.9	0.2	5.9	0.1	6.0
Fe R	10	5.1	4.8	1.0	3.6	7.1	0.4	6	4.5	5.4	4.9	0.3	4.8	0.1	6.3
Lf L	10	6.6	6.6	1.0	5.2	8.3	0.8	6	5.8	7.5	6.7	0.6	6.9	0.5	7.5
Lf R	10	6.5	6.2	0.8	5.2	7.6	0.5	6	5.8	7.3	6.3	0.5	6.1	0.3	7.6
So L	10	8.6	8.7	1.5	5.6	10.7	1.0	6	7.9	10.0	8.9	0.8	9.0	0.8	10.0
So R	10	8.4	8.6	1.5	6.0	10.3	1.3	6	8.1	10.3	9.2	0.9	9.0	0.7	10.2
Os L	10	9.7	9.6	1.2	8.0	11.6	1.0	6	8.0	10.3	9.1	0.8	8.9	0.5	11.0
Os R	10	9.6	9.8	0.7	8.0	10.4	0.2	6	9.6	10.1	9.8	0.2	9.8	0.2	10.1
Or L	10	7.2	6.5	2.2	5.0	11.4	1.4	6	5.0	7.9	6.0	1.1	5.5	0.5	9.5
Or R	10	7.1	6.5	2.0	4.5	10.6	1.8	6	5.9	9.1	7.3	1.3	6.9	1.0	9.4
Sor L	10	6.7	6.0	2.3	4.3	10.9	1.2	6	4.3	6.7	5.4	0.9	5.2	0.5	9.5
Sor R	10	6.5	5.8	2.6	3.0	11.0	1.4	6	3.0	6.7	5.0	1.2	4.8	0.8	9.5
Smc L	10	29.9	29.2	5.4	23.6	41.8	2.3	6	23.6	30.2	27.2	2.6	27.5	2.0	33.5
Smc R	10	30.6	29.9	5.7	21.8	41.5	3.2	6	27.3	36.1	31.1	3.0	30.1	1.6	39.5
Ecm L	9	33.2	32.8	6.0	27.0	45.0									
Ecm R	9	34.5	33.8	6.3	25.6	44.1									

Table B.63 continued

Landmark		Males 45-54 years, 18.5 > BMI < 25.0 (<i>n</i> = 10)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
Ft L	10	6.6	6.5	1.2	5.0	8.5	1.1	6	5.0	6.7	5.9	0.7	6.1	0.6	7.7
Ft R	10	6.8	6.8	1.4	5.0	9.9	0.8	6	5.5	7.2	6.5	0.6	6.6	0.5	7.9
Fmt L	10	7.7	8.4	2.1	5.1	10.8	2.1	6	5.1	8.6	6.7	1.6	5.8	0.8	9.8
Fmt R	10	7.3	7.6	1.2	5.4	8.7	0.9	6	6.8	8.7	7.9	0.7	8.0	0.6	8.6
Fmo L	10	8.4	8.9	2.7	4.5	13.5	2.2	6	5.8	9.6	7.9	1.7	8.5	1.1	10.6
Fmo R	9	8.6	8.9	3.0	4.8	14.5									
Ec L	10	6.8	6.4	2.6	3.8	12.5	0.9	6	4.1	7.3	6.1	1.1	6.0	0.8	9.4
Ec R	10	6.8	6.3	2.3	3.8	11.9	1.0	6	4.7	7.6	6.2	1.0	6.3	0.6	8.6
Mz L	10	8.7	8.1	2.0	6.8	12.5	1.0	6	6.8	8.8	7.6	0.8	7.3	0.4	10.9
Mz R	10	9.0	9.2	1.8	6.4	11.6	1.5	6	7.7	11.1	9.3	1.3	9.7	1.0	12.6
Zm L	10	15.4	14.7	3.8	11.4	22.7	3.3	6	11.4	16.4	13.4	2.0	13.5	2.1	18.9
Zm R	10	15.1	14.5	3.6	9.8	21.2	2.2	6	9.8	15.9	13.2	2.0	12.9	1.2	19.0
Ol L	7	25.3	24.8	2.9	21.8	28.8									
Ol R	7	25.8	24.3	3.5	21.1	30.5									
Ju L	9	9.9	8.6	2.1	7.6	13.3									
Ju R	10	10.3	9.4	1.9	7.6	12.9	1.2	6	9.0	12.6	10.5	1.6	9.4	0.4	12.7
Zy L	5	8.7	8.0	1.1	7.8	10.3									
Zy R	6	9.1	9.4	1.8	6.3	10.8									
Sgl L	5	14.5	14.2	1.8	11.9	16.5									
Sgl R	5	14.2	14.4	1.5	11.8	15.4									
Cdl L	5	18.7	17.9	2.7	16.3	22.9									
Cdl R															

Table B.64 - Facial soft tissue thicknesses (mm), females 45-54 years, 18.5 > BMI < 25.0

Landmark		Females 45-54 years, 18.5 > BMI < 25.0 (<i>n</i> = 14)													
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
M	14	4.0	3.9	0.5	3.2	5.0	0.4	8	3.6	4.4	4.0	0.3	3.9	0.3	4.5
Sg	14	5.2	4.9	0.9	4.0	7.1	0.3	8	4.5	5.2	4.8	0.2	4.8	0.2	6.3
G	14	5.7	5.6	0.8	4.8	7.3	0.5	8	4.9	5.7	5.3	0.3	5.5	0.2	6.5
N	14	7.2	7.1	0.9	5.8	9.1	0.7	8	6.9	8.2	7.5	0.5	7.5	0.5	8.2
Mn	14	5.1	5.3	0.8	3.8	6.2	0.7	8	4.3	5.7	5.0	0.6	5.3	0.5	6.0
Rhi	14	3.1	3.3	0.7	1.7	4.2	0.6	8	2.3	3.5	2.9	0.4	2.8	0.4	3.9
Ss	14	13.3	12.7	2.2	10.7	19.2	1.1	8	12.0	14.2	13.0	0.8	12.7	0.5	16.4
Mp	14	11.3	10.5	1.8	9.7	16.4	0.6	8	9.7	11.1	10.3	0.4	10.2	0.2	12.4
Pr	12	9.6	9.3	1.6	7.5	12.5	1.2	7	7.5	9.9	8.7	0.8	8.5	0.6	11.2
Ids	9	11.8	11.4	2.6	9.2	15.6									
Bilateral															
Nlr L	13	12.1	11.8	1.8	8.8	16.3	0.8	7	11.0	12.6	11.8	0.5	11.8	0.5	14.3
Nlr R	13	12.2	11.8	1.7	9.7	15.4	0.8	7	10.9	12.6	11.8	0.6	11.8	0.6	14.4
Nmf L	14	5.4	5.2	1.4	3.6	8.7	0.5	8	4.2	5.7	5.1	0.5	5.1	0.4	6.6
Nmf R	14	5.3	5.0	1.2	3.4	8.0	0.4	8	4.4	5.5	5.0	0.4	4.9	0.3	6.7
Mf L	14	6.5	6.3	1.6	3.0	9.9	0.6	8	5.9	7.1	6.4	0.5	6.3	0.4	8.8
Mf R	14	7.1	6.8	1.8	4.3	10.2	1.2	8	5.4	8.2	6.8	1.0	6.7	0.9	9.6
Mnm L	14	2.9	2.9	0.4	2.1	3.5	0.3	8	2.5	3.1	2.8	0.2	2.9	0.2	3.4
Mnm R	13	3.0	2.9	0.6	1.8	3.9	0.4	7	2.7	3.4	3.0	0.3	3.1	0.3	3.5
Nm L	14	3.5	3.5	0.9	2.1	5.3	0.5	8	2.8	4.0	3.4	0.4	3.5	0.3	4.3
Nm R	13	4.0	3.8	1.1	1.5	6.5	0.4	7	3.4	4.0	3.7	0.3	3.6	0.2	4.8
Al L	14	8.8	8.9	1.0	7.4	10.4	0.8	8	7.5	9.0	8.4	0.6	8.6	0.4	9.7
Al R	14	8.7	8.8	0.9	7.2	10.1	0.7	8	7.7	9.1	8.5	0.5	8.6	0.4	9.6

Table B.64 continued

Landmark		Females 45-54 years, 18.5 > BMI < 25.0 (<i>n</i> = 14)													
Bilateral	<i>n</i>	$\bar{X}$	$\bar{X}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{X}$	SH MAD	ShorMax
Lno L	14	12.4	12.8	1.8	8.5	15.6	1.2	8	11.4	13.7	12.7	0.9	12.9	0.7	14.3
Lno R	14	12.7	13.0	1.9	9.5	15.9	1.3	8	10.6	13.5	12.5	1.0	12.9	0.5	15.0
Cf L	14	12.6	11.8	2.5	9.6	18.9	1.2	8	10.8	13.4	12.0	0.9	11.6	0.4	15.5
Cf R	14	13.2	12.5	2.7	10.7	19.0	1.5	8	10.7	12.9	11.5	0.8	11.2	0.5	15.7
Sc L	14	10.3	10.3	0.9	8.2	11.6	0.7	8	10.0	11.1	10.5	0.5	10.4	0.4	11.4
Sc R	13	10.2	10.3	0.9	8.3	11.8	0.4	7	9.9	10.5	10.2	0.3	10.2	0.3	10.9
Fe L	14	4.5	4.4	0.9	3.4	5.8	0.8	8	3.4	4.5	3.9	0.5	3.9	0.4	5.4
Fe R	14	4.5	4.4	1.0	3.0	5.8	1.0	8	4.1	5.6	4.9	0.7	5.3	0.2	5.6
Lf L	14	5.7	5.6	1.0	4.5	8.1	0.8	8	4.5	5.7	5.1	0.5	4.9	0.4	6.7
Lf R	14	5.6	5.6	1.0	4.3	8.1	0.7	8	4.7	5.9	5.4	0.5	5.5	0.4	6.5
So L	14	7.5	7.5	1.2	5.7	9.4	1.1	8	5.7	7.5	6.7	0.7	6.7	0.5	8.7
So R	14	7.2	7.1	0.9	5.7	8.9	0.6	8	6.5	7.7	7.1	0.4	6.9	0.4	8.4
Os L	14	7.7	7.4	1.4	6.0	10.2	1.2	8	6.0	8.4	6.8	0.8	6.4	0.4	9.1
Os R	14	7.8	7.6	1.4	5.8	10.8	0.8	8	5.8	7.9	7.0	0.8	7.4	0.4	8.9
Or L	14	6.7	6.8	1.3	5.0	9.0	0.9	8	5.4	7.2	6.4	0.7	6.8	0.4	7.7
Or R	14	6.7	6.8	1.2	4.7	9.2	0.8	8	6.1	7.8	7.1	0.6	6.9	0.3	7.8
Sor L	14	6.4	6.5	1.4	3.1	9.0	0.6	8	5.7	7.0	6.4	0.5	6.4	0.5	7.6
Sor R	14	6.1	6.5	1.1	3.5	7.7	0.7	8	5.7	7.1	6.4	0.5	6.6	0.3	7.1
Smc L	14	29.7	28.9	3.1	25.9	36.7	1.0	8	27.9	30.0	28.8	0.7	28.9	0.7	33.2
Smc R	14	30.2	30.6	2.8	25.0	34.4	1.8	8	28.2	32.3	30.6	1.5	30.9	1.3	32.9
Ecm L	12	32.6	31.9	3.8	28.6	41.3	2.3	7	28.6	32.0	30.4	1.4	30.3	1.3	35.9
Ecm R	10	32.7	32.4	3.3	27.7	39.7	2.2	6	30.3	34.9	32.8	1.7	32.8	1.6	36.1

Table B.64 continued

Landmark		Females 45-54 years, 18.5 > BMI < 25.0 (<i>n</i> = 14)													
Bilateral	<i>n</i>	$\bar{X}$	$\bar{X}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{X}$	SH MAD	ShorMax
Ft L	14	5.7	5.0	1.6	4.1	9.5	0.6	8	4.1	5.6	4.7	0.4	4.7	0.3	7.1
Ft R	14	6.1	5.7	1.7	4.2	9.9	1.1	8	4.4	6.7	5.4	0.9	5.5	0.8	7.6
Fmt L	14	6.6	6.2	1.3	5.1	9.9	0.5	8	5.5	6.7	6.1	0.4	6.1	0.3	7.7
Fmt R	14	6.6	6.6	1.5	4.4	9.5	1.3	8	4.8	7.5	6.0	1.0	6.1	1.0	7.9
Fmo L	14	7.3	6.7	2.3	4.4	12.9	0.9	8	5.8	8.3	6.8	0.8	6.6	0.3	9.9
Fmo R	14	7.1	7.0	2.2	4.2	11.9	1.5	8	4.6	7.9	6.2	1.2	5.8	0.8	9.2
Ec L	14	5.0	4.9	1.4	3.0	8.4	0.7	8	4.2	5.8	5.0	0.5	5.1	0.4	6.2
Ec R	14	5.3	5.0	1.3	3.6	7.8	1.1	8	3.6	5.8	4.5	0.7	4.4	0.7	6.8
Mz L	14	10.1	9.7	1.8	8.4	15.1	0.9	8	8.6	10.6	9.6	0.8	9.2	0.6	11.4
Mz R	14	10.2	10.1	1.5	8.5	14.5	0.9	8	8.8	10.5	9.7	0.6	9.7	0.6	11.1
Zm L	14	14.2	14.0	2.2	11.0	18.3	1.4	8	12.8	15.8	14.3	1.0	14.1	0.6	17.2
Zm R	14	14.2	13.8	2.4	10.9	19.3	1.2	8	12.0	15.2	13.7	1.0	13.6	0.8	17.1
Ol L	12	23.1	23.9	2.3	18.2	25.6	1.2	7	23.1	25.6	24.5	0.8	24.8	0.6	25.1
Ol R	13	24.6	24.5	4.2	17.8	33.1	1.3	7	23.1	26.3	24.7	0.9	24.7	0.3	30.1
Ju L	13	10.4	10.2	2.3	8.0	16.5	1.1	7	8.3	10.4	9.4	0.8	9.4	0.8	11.6
Ju R	13	10.2	9.9	1.9	7.3	14.4	1.5	7	9.2	11.5	10.3	1.0	10.2	0.9	11.7
Zy L	9	8.1	8.4	1.7	4.9	10.5									
Zy R	10	8.5	8.7	2.0	4.7	11.6	1.2	6	7.7	10.6	8.9	1.0	8.9	0.9	11.3
Sgl L	8	11.9	12.1	2.3	6.6	14.5									
Sgl R	8	11.9	12.1	2.1	7.8	14.7									
Cdl L	8	13.5	13.2	1.4	11.5	16.0									
Cdl R	9	13.1	13.1	1.8	9.5	15.8									

Table B.65 - Facial soft tissue thicknesses (mm), males 45-54 years, 25.0 > BMI < 30.0

Landmark		Males 45-54 years, 25.0 > BMI < 30.0 (<i>n</i> = 17)													
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
M	17	5.5	5.6	1.1	3.5	7.1	0.8	9	4.8	6.2	5.5	0.5	5.5	0.4	6.9
Sg	17	6.6	6.9	1.2	4.6	8.8	0.6	9	6.3	7.7	7.0	0.4	7.0	0.4	7.9
G	17	6.2	6.4	0.8	4.8	7.8	0.5	9	6.3	7.1	6.6	0.2	6.5	0.1	7.2
N	17	9.3	8.8	1.6	6.4	13.1	0.6	9	7.9	9.3	8.6	0.4	8.6	0.2	10.7
Mn	17	6.4	6.3	1.5	4.1	9.3	1.3	9	5.9	7.9	6.8	0.8	6.3	0.4	8.2
Rhi	17	3.9	3.9	1.2	2.0	5.7	1.0	9	2.9	4.3	3.5	0.5	3.4	0.5	5.4
Ss	17	15.5	15.4	2.8	11.3	22.4	1.5	9	14.8	17.4	16.0	0.9	15.9	1.0	18.2
Mp	16	13.9	14.1	2.3	9.9	19.2	1.0	9	13.4	15.0	14.3	0.7	14.5	0.6	15.6
Pr	14	11.8	11.9	1.7	8.7	14.3	1.3	8	10.6	13.3	11.8	1.0	11.7	0.9	13.5
Ids	13	13.6	13.6	1.5	10.3	16.6	0.6	7	12.6	14.2	13.7	0.5	13.8	0.4	15.2
Bilateral															
Nlr L	15	15.4	15.5	2.8	10.7	20.4	1.5	8	14.0	17.5	15.4	1.1	15.5	0.8	18.4
Nlr R	15	15.3	15.1	2.9	10.2	20.1	1.8	8	12.2	16.3	14.7	1.4	14.6	1.2	18.8
Nmf L	17	7.6	7.4	1.4	4.6	10.5	0.9	9	6.0	7.7	7.0	0.5	7.0	0.4	9.0
Nmf R	17	7.4	7.2	1.3	5.3	10.0	1.2	9	5.9	7.6	6.7	0.6	6.8	0.5	8.9
Mf L	17	9.0	8.3	2.1	6.4	12.8	1.1	9	6.3	8.8	7.5	0.9	7.7	0.6	11.5
Mf R	17	9.2	9.3	2.2	5.1	12.9	1.0	9	8.3	10.7	9.5	0.9	9.7	0.7	12.0
Mnm L	16	3.7	3.5	1.0	2.0	5.5	0.7	9	2.8	4.2	3.4	0.5	3.4	0.5	5.2
Mnm R	16	3.8	3.6	1.0	2.2	5.9	0.7	9	3.1	4.5	3.8	0.5	3.6	0.4	4.9
Nm L	17	4.9	5.0	1.0	3.3	6.2	0.9	9	4.6	6.1	5.4	0.5	5.5	0.4	6.0
Nm R	17	5.5	5.8	1.0	3.8	6.9	0.9	9	4.4	6.0	5.3	0.6	5.3	0.7	6.8
Al L	17	10.2	10.3	1.5	7.7	13.6	1.1	9	10.0	11.9	10.9	0.6	10.9	0.6	11.8
Al R	17	10.3	10.3	1.8	7.0	13.7	1.4	9	8.8	11.0	9.8	0.8	9.9	0.7	11.7

Table B.65 continued

Landmark		Males 45-54 years, 25.0 > BMI < 30.0 (<i>n</i> = 17)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
Lno L	17	15.0	15.1	3.2	11.0	22.2	2.6	9	11.9	15.7	13.8	1.5	14.1	1.4	17.7
Lno R	17	16.1	15.5	4.4	10.5	25.2	2.0	9	14.9	18.6	16.6	1.4	16.4	1.0	18.6
Cf L	16	13.6	12.6	2.2	11.0	17.0	1.5	9	11.0	14.4	12.1	1.0	11.9	0.5	16.4
Cf R	17	14.7	13.3	3.2	10.9	19.7	1.9	9	10.9	13.5	12.4	0.9	12.6	0.6	18.4
Sc L	12	13.3	13.8	2.0	9.4	15.9	1.3	7	13.6	15.8	14.6	0.9	14.6	0.8	15.8
Sc R	13	13.6	13.8	1.7	10.8	16.0	1.1	7	12.9	15.2	13.9	0.9	13.9	0.8	15.4
Fe L	17	6.0	6.0	1.3	3.6	8.7	0.9	9	5.5	7.0	6.3	0.6	6.3	0.6	7.2
Fe R	17	5.8	6.0	1.2	3.5	7.8	0.8	9	5.1	6.3	5.9	0.4	6.0	0.2	7.0
Lf L	17	7.5	7.6	1.4	5.1	9.8	1.1	9	6.5	8.2	7.4	0.7	7.4	0.6	9.1
Lf R	17	7.4	7.5	1.5	4.3	10.0	0.7	9	6.8	8.5	7.4	0.6	7.2	0.4	9.1
So L	17	8.7	8.6	1.0	7.1	10.4	0.9	9	7.7	9.2	8.3	0.5	8.3	0.5	9.8
So R	17	8.4	8.5	1.2	5.5	10.4	0.9	9	8.2	9.6	8.9	0.5	8.9	0.4	9.6
Os L	17	9.6	9.4	1.5	6.9	12.4	1.1	9	8.8	11.1	9.7	0.7	9.6	0.5	11.5
Os R	17	9.5	9.4	1.3	7.7	11.7	1.2	9	8.0	9.6	8.9	0.6	9.1	0.5	11.0
Or L	17	8.0	7.6	1.8	5.7	12.4	1.0	9	6.1	8.1	7.2	0.7	7.4	0.6	9.2
Or R	17	7.9	7.8	1.8	5.6	11.3	1.4	9	5.6	8.2	6.7	1.0	6.4	0.7	9.4
Sor L	17	7.4	7.2	1.5	4.8	11.1	0.9	9	5.8	7.5	6.7	0.6	6.8	0.5	8.7
Sor R	17	7.0	6.5	1.6	4.3	9.8	0.8	9	5.6	7.3	6.4	0.5	6.4	0.4	9.1
Smc L	17	32.7	34.0	3.4	26.4	38.1	2.5	9	31.1	35.9	33.8	1.9	34.0	1.5	35.9
Smc R	17	33.3	33.7	2.7	28.8	37.0	2.5	9	32.9	36.5	34.8	1.4	34.3	1.2	36.5
Ecm L	12	36.3	36.5	4.0	30.0	43.1	3.1	7	31.4	38.2	35.2	2.7	35.5	2.3	39.9
Ecm R	10	37.3	37.4	4.2	29.8	41.9	3.1	6	36.5	41.9	39.4	2.4	39.3	2.4	41.8

Table B.65 continued

Landmark		Males 45-54 years, 25.0 > BMI < 30.0 (<i>n</i> = 17)													
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\tilde{x}$	SH MAD	ShorMax
Ft L	17	7.1	7.1	1.3	5.0	10.6	0.5	9	6.6	7.5	7.1	0.3	7.1	0.2	8.3
Ft R	17	7.2	7.3	1.2	5.6	10.8	0.5	9	6.8	7.7	7.2	0.3	7.3	0.1	7.7
Fmt L	17	8.1	8.2	1.1	6.0	10.9	0.5	9	7.5	8.5	8.0	0.4	8.1	0.3	9.0
Fmt R	17	7.7	7.9	1.3	5.0	10.7	0.4	9	7.7	8.5	8.0	0.3	8.0	0.2	8.8
Fmo L	17	9.2	9.4	2.3	4.6	12.3	1.7	9	7.5	11.1	9.5	1.3	9.6	1.1	11.9
Fmo R	17	9.1	8.8	2.5	3.7	12.9	2.1	9	7.8	10.9	9.2	1.1	8.8	0.6	11.7
Ec L	17	6.3	6.1	1.7	3.5	9.5	1.0	9	5.0	7.0	6.0	0.8	5.9	0.8	8.4
Ec R	17	6.7	6.5	2.0	4.0	10.5	1.2	9	5.4	8.1	6.7	0.9	6.7	0.7	9.6
Mz L	17	10.0	9.9	1.6	7.3	13.6	1.0	9	8.8	10.2	9.5	0.6	9.6	0.6	12.0
Mz R	17	10.2	10.3	1.5	7.6	13.3	0.7	9	9.4	10.9	10.4	0.5	10.6	0.2	11.5
Zm L	17	15.7	15.7	2.3	11.5	20.0	1.8	9	13.4	16.7	15.0	1.1	15.2	0.8	18.0
Zm R	17	15.1	15.2	1.9	11.4	18.9	1.1	9	13.6	15.3	14.6	0.7	14.6	0.7	17.3
Ol L	13	26.5	26.2	2.8	21.8	31.1	1.4	7	24.8	27.8	26.1	1.2	25.9	1.0	30.0
Ol R	12	28.2	28.9	3.0	22.0	32.2	1.9	7	28.7	32.2	30.0	1.3	29.6	0.8	31.9
Ju L	16	10.8	10.4	1.8	8.2	14.7	1.4	9	9.7	12.2	11.0	1.0	10.9	0.9	12.6
Ju R	17	11.3	11.1	1.8	8.5	15.4	1.0	9	9.9	11.7	10.9	0.6	10.9	0.4	12.4
Zy L	8	10.0	10.0	1.3	7.8	12.1									
Zy R	7	10.0	10.2	0.8	8.6	11.1									
Sgl L	5	15.0	14.7	2.8	12.2	19.2									
Sgl R	5	14.8	14.9	0.8	13.9	15.9									
Cdl L	5	18.1	16.8	4.6	13.1	25.3									
Cdl R	6	18.2	18.7	2.2	15.5	21.3									

Table B.66 - Facial soft tissue thicknesses (mm), females 45-54 years, 25.0 > BMI < 30.0

Landmark		Females 45-54 years, 25.0 > BMI < 30.0 (<i>n</i> = 12)													
Unilateral	<i>n</i>	$\bar{x}$	$\bar{y}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
M	12	4.5	4.3	0.6	3.8	5.6	0.4	7	3.8	4.5	4.1	0.2	4.1	0.2	5.1
Sg	12	5.9	6.1	0.8	4.6	7.4	0.3	7	5.4	6.4	6.1	0.3	6.2	0.1	6.4
G	12	6.1	6.0	0.8	5.2	7.9	0.5	7	5.2	6.1	5.7	0.3	5.7	0.2	6.7
N	12	8.0	7.9	1.1	6.1	9.6	0.9	7	7.0	8.9	8.0	0.8	7.9	0.7	9.4
Mn	12	5.5	5.4	0.7	4.7	7.0	0.6	7	4.7	5.9	5.1	0.4	5.1	0.3	6.2
Rhi	12	3.4	3.5	0.7	2.6	4.4	0.7	7	2.6	3.6	3.0	0.4	3.0	0.3	4.2
Ss	12	13.2	13.2	1.8	10.3	16.1	1.8	7	13.1	16.1	14.2	1.1	14.0	0.9	15.5
Mp	12	11.3	11.5	1.2	9.6	13.2	0.9	7	9.6	11.7	10.7	0.8	10.7	0.7	12.4
Pr	11	10.8	9.7	2.7	8.1	16.6	1.0	6	9.1	11.0	10.0	0.7	9.7	0.7	15.3
Ids	8	11.8	11.4	2.4	9.2	17.1									
Bilateral															
Nlr L	11	11.8	11.7	1.2	10.5	14.5	0.6	6	10.5	11.7	11.1	0.5	11.1	0.4	12.7
Nlr R	11	12.0	11.9	1.1	10.8	14.1	0.9	6	10.8	12.1	11.4	0.5	11.3	0.4	13.3
Nmf L	12	6.5	6.1	2.3	3.7	13.0	0.5	7	5.2	6.5	5.9	0.5	5.8	0.4	7.3
Nmf R	12	6.6	6.4	2.3	3.7	12.7	1.1	7	4.7	7.0	5.9	0.9	5.8	0.8	7.6
Mf L	12	8.2	7.5	2.9	5.1	16.3	1.0	7	6.7	8.6	7.6	0.7	7.5	0.5	10.4
Mf R	12	8.5	7.7	2.8	5.4	15.2	0.9	7	6.7	8.8	7.5	0.7	7.4	0.5	10.7
Mnm L	11	3.7	3.2	1.2	2.3	6.7	0.7	6	3.1	4.3	3.7	0.5	3.9	0.4	4.3
Mnm R	12	4.0	3.9	1.0	2.3	6.5	0.4	7	3.4	4.3	3.9	0.3	3.9	0.1	5.0
Nm L	12	4.2	4.3	0.8	2.9	5.6	0.5	7	4.0	5.0	4.5	0.4	4.4	0.3	5.1
Nm R	12	4.6	4.8	1.0	3.1	6.5	0.7	7	3.9	5.5	4.8	0.6	5.0	0.3	5.4
Al L	12	9.3	9.0	1.2	7.8	12.4	0.2	7	7.8	9.1	8.7	0.5	8.8	0.2	9.9
Al R	12	9.3	9.1	1.4	7.3	12.2	0.8	7	7.9	9.8	8.8	0.6	8.9	0.4	10.9

Table B.66 continued

Landmark		Females 45-54 years, 25.0 > BMI < 30.0 (<i>n</i> = 12)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{y}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
Lno L	12	13.0	13.1	0.7	11.5	14.3	0.4	7	12.5	13.5	13.2	0.3	13.2	0.2	13.5
Lno R	12	12.8	12.9	1.1	11.1	14.1	0.9	7	12.6	14.1	13.4	0.6	13.6	0.4	13.9
Cf L	12	12.4	11.6	2.2	10.3	16.6	1.1	7	10.3	12.6	11.1	0.8	10.8	0.5	15.3
Cf R	12	12.0	11.5	2.1	9.4	15.9	1.5	7	9.4	11.7	10.7	0.9	10.9	0.7	14.0
Sc L	11	11.6	11.1	2.1	9.1	17.1	0.7	6	10.1	11.7	10.9	0.6	10.7	0.4	12.6
Sc R	11	11.3	10.8	1.7	9.5	15.5	0.5	6	9.5	10.8	10.4	0.4	10.4	0.2	12.1
Fe L	11	5.1	5.2	0.6	4.1	6.4	0.3	6	5.1	5.6	5.3	0.2	5.3	0.1	5.8
Fe R	12	4.9	4.8	0.8	3.4	6.0	0.6	7	4.3	5.6	4.9	0.5	4.8	0.4	5.8
Lf L	11	6.8	6.8	0.7	5.2	7.6	0.5	6	6.6	7.4	7.0	0.3	7.1	0.2	7.4
Lf R	12	6.5	6.6	0.9	5.2	7.2	0.8	7	6.6	7.7	7.0	0.4	7.0	0.4	7.5
So L	11	8.6	8.5	1.0	6.7	10.2	0.6	6	8.0	9.1	8.5	0.4	8.5	0.4	9.4
So R	12	8.4	8.5	1.1	6.4	11.0	0.3	7	8.2	9.2	8.6	0.3	8.6	0.2	9.2
Os L	12	8.6	8.6	1.0	7.2	10.6	0.7	7	7.6	9.0	8.4	0.6	8.6	0.4	9.4
Os R	12	9.0	9.3	1.7	5.4	11.6	1.2	7	7.6	9.8	8.7	0.9	8.6	0.8	10.5
Or L	12	8.1	7.5	1.8	5.7	11.3	1.1	7	6.4	9.0	7.4	0.9	7.2	0.4	10.3
Or R	12	7.9	7.1	1.7	5.8	10.8	0.6	7	5.8	7.7	6.8	0.5	6.9	0.2	9.3
Sor L	12	7.6	7.1	1.9	5.3	10.8	1.4	7	6.0	8.9	7.4	1.3	7.1	1.0	10.2
Sor R	12	7.1	6.7	1.9	5.1	11.3	1.4	7	5.1	7.9	6.1	1.0	5.8	0.6	8.8
Smc L	12	31.5	31.2	2.0	28.3	34.2	1.5	7	28.3	31.5	30.3	1.2	30.7	0.6	33.9
Smc R	11	31.6	31.0	2.1	29.6	37.0	0.9	6	29.7	31.9	30.8	0.8	30.9	0.8	32.9
Ecm L	8	33.3	33.6	2.8	29.0	37.6									
Ecm R	10	34.1	33.2	2.5	31.4	38.6	1.4	6	31.4	34.8	32.8	1.1	32.5	0.6	36.9

Table B.66 continued

Landmark		Females 45-54 years, 25.0 > BMI < 30.0 (<i>n</i> = 12)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{y}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	SH σ	SH $\bar{x}$	SH MAD	ShorMax
Ft L	11	7.2	7.1	1.2	5.8	10.1	0.9	6	5.9	7.6	6.8	0.7	6.8	0.7	8.1
Ft R	12	6.9	6.8	0.8	6.0	9.1	0.5	7	6.6	7.5	7.0	0.3	7.0	0.4	7.5
Fmt L	12	8.0	7.6	1.7	5.8	11.8	0.8	7	6.5	8.4	7.5	0.6	7.5	0.4	9.6
Fmt R	12	8.0	7.9	1.2	6.3	10.0	1.0	7	6.3	8.3	7.3	0.7	7.2	0.5	9.3
Fmo L	12	9.4	9.1	3.2	4.2	17.7	1.3	7	8.3	11.0	9.6	1.0	9.7	0.8	11.0
Fmo R	12	9.4	8.9	3.5	3.7	17.7	1.8	7	7.2	11.1	9.1	1.5	8.9	1.4	11.9
Ec L	12	7.3	7.1	2.1	3.4	12.5	0.7	7	6.2	7.3	6.8	0.4	7.0	0.3	8.3
Ec R	12	7.2	6.7	2.1	4.0	11.1	1.1	7	5.9	8.6	7.0	1.0	6.7	0.7	9.0
Mz L	12	11.0	10.9	0.9	10.0	12.8	0.5	7	10.0	10.9	10.5	0.4	10.4	0.4	11.9
Mz R	12	11.1	10.7	1.0	9.8	12.4	0.7	7	10.1	11.8	10.7	0.7	10.4	0.3	12.3
Zm L	12	16.3	15.6	3.0	14.1	25.0	0.9	7	14.4	16.4	15.5	0.8	15.6	0.7	17.6
Zm R	11	15.1	14.9	1.4	13.1	17.2	1.2	6	13.8	16.1	15.1	1.0	14.8	1.1	16.6
Ol L	11	25.9	24.6	3.5	22.7	35.3	0.8	6	23.8	25.6	24.6	0.6	24.3	0.3	28.4
Ol R	12	25.9	25.1	2.2	23.4	31.2	1.2	7	23.8	26.4	25.0	0.9	24.9	0.6	28.1
Ju L	12	11.4	10.9	1.3	9.8	14.0	0.9	7	10.1	12.2	10.9	0.8	10.7	0.4	12.9
Ju R	12	11.5	11.8	1.4	9.7	13.2	1.4	7	9.7	12.3	10.7	1.0	10.2	0.4	13.0
Zy L	10	9.9	8.7	2.5	7.9	15.4	0.7	6	7.9	9.4	8.5	0.5	8.6	0.2	11.8
Zy R	9	11.2	10.1	2.4	7.9	14.6									
Sgl L	8	14.4	14.6	1.4	11.5	16.4									
Sgl R	9	13.3	12.9	1.9	11.0	16.6									
Cdl L	9	17.5	17.2	2.2	15.3	21.7									
Cdl R	8	17.0	18.0	2.5	13.1	20.0									

Table B.67 - Facial soft tissue thicknesses (mm), males 45-54 years, 30.0 > BMI

Landmark		Males 45-54 years, 30.0 > BMI (<i>n</i> = 5)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	5	5.4	5.5	0.6	4.6	6.1
Sg	5	7.1	7.7	0.9	5.8	7.9
G	5	7.4	7.5	1.3	6.1	9.3
N	5	10.9	11.1	0.7	10.1	11.7
Mn	5	8.2	7.9	0.5	7.8	9.0
Rhi	5	5.3	5.2	0.5	4.8	6.0
Ss	5	18.1	17.8	1.6	16.5	20.1
Mp	5	16.1	16.1	1.6	13.8	17.8
Pr	4	14.2	13.5	1.9	12.9	17.0
Ids	4	16.5	14.9	4.2	13.5	22.8
Bilateral						
Nlr L	5	17.4	18.2	1.5	15.6	18.6
Nlr R	5	16.2	16.0	0.7	15.5	17.3
Nmf L	5	9.9	8.8	2.5	7.3	12.6
Nmf R	5	8.9	9.4	2.2	6.2	11.1
Mf L	5	10.7	9.6	2.7	8.2	14.7
Mf R	5	12.0	12.4	2.3	9.2	14.4
Mnm L	5	4.6	3.8	1.2	3.7	6.5
Mnm R	5	4.4	3.9	1.2	3.7	6.5
Nm L	5	6.2	5.6	1.2	5.1	7.4
Nm R	5	6.1	6.1	0.7	5.3	7.0
Al L	5	12.0	11.8	1.0	10.9	13.1
Al R	5	12.2	11.8	1.7	10.5	14.9
Lno L	5	16.3	14.4	3.9	12.4	20.7
Lno R	5	16.5	17.3	2.4	13.1	18.8
Cf L	5	15.8	14.0	3.7	13.0	21.7
Cf R	5	16.8	16.5	3.5	13.7	22.1
Sc L	5	15.8	15.7	1.6	14.5	18.5
Sc R	5	15.9	15.4	1.7	13.6	18.1
Fe L	5	6.3	6.2	1.1	5.1	8.0
Fe R	5	6.3	6.5	0.9	5.0	7.2
Lf L	5	7.6	7.7	1.3	6.2	9.6
Lf R	5	8.0	7.8	1.5	5.9	9.9
So L	5	9.3	9.4	1.4	7.7	11.4
So R	5	9.2	9.3	1.7	7.6	12.0
Os L	5	12.0	11.6	1.0	10.9	13.5
Os R	5	12.2	11.9	1.2	10.5	13.4
Or L	5	9.4	9.8	1.5	7.4	11.2
Or R	5	9.5	9.4	1.5	7.9	11.9

Table B.67 continued

Landmark		Males 45-54 years, 30.0 > BMI (<i>n</i> = 5)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	5	9.3	8.8	1.7	7.6	11.5
Sor R	5	9.1	8.7	1.2	8.2	11.2
Smc L	5	36.1	36.8	5.5	27.9	41.4
Smc R	5	34.7	35.7	3.5	30.3	38.5
Ecm L	4	41.5	42.0	2.5	38.1	44.0
Ecm R	4	40.6	40.6	1.6	39.1	42.0
Ft L	5	8.6	8.1	0.8	7.9	9.6
Ft R	5	8.2	8.2	0.7	7.3	9.1
Fmt L	5	10.9	10.3	1.8	9.4	14.0
Fmt R	5	10.0	9.7	0.9	8.9	11.2
Fmo L	5	10.6	10.7	2.0	7.9	13.3
Fmo R	5	10.7	11.8	2.2	7.2	12.6
Ec L	5	7.8	7.7	2.0	5.8	10.0
Ec R	5	8.4	8.3	2.3	6.3	12.2
Mz L	5	11.9	12.6	1.8	9.9	13.8
Mz R	5	11.8	11.7	1.5	9.8	13.8
Zm L	5	19.7	19.7	1.6	17.7	22.0
Zm R	5	18.9	19.2	1.9	16.4	21.3
Ol L						
Ol R	4	33.7	33.5	2.5	31.5	36.1
Ju L	5	12.7	13.0	1.1	11.4	14.1
Ju R	5	12.3	12.2	1.1	11.0	13.8
Zy L						
Zy R						
Sgl L						
Sgl R						
Cdl L						
Cdl R						

**Table B.68 - Facial soft tissue thicknesses (mm), males 55-64 years,
18.5 > BMI < 25.0**

Landmark		Males 55-64 years, 18.5 > BMI < 25.0 (<i>n</i> = 4)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{y}$	σ	Min.	Max.
M	4	4.6	4.3	1.2	3.4	6.3
Sg	4	6.1	5.6	1.6	4.8	8.4
G	4	5.6	5.1	1.6	4.5	7.9
N	4	9.1	8.8	2.2	6.7	11.9
Mn	4	6.3	6.8	1.5	4.2	7.5
Rhi	4	4.8	4.0	1.9	3.6	7.7
Ss	4	15.0	14.6	1.1	14.3	16.7
Mp	4	12.9	13.2	2.2	9.9	15.2
Pr	4	11.5	11.7	1.9	9.3	13.2
Ids						
Bilateral						
Nlr L	4	14.4	15.1	1.7	12.0	15.5
Nlr R	4	14.0	14.2	1.8	11.6	15.9
Nmf L	4	9.0	8.3	2.5	6.8	12.5
Nmf R	4	8.3	7.4	2.6	6.1	12.1
Mf L	4	8.6	8.5	2.8	5.6	11.9
Mf R	4	7.8	7.7	1.6	5.9	9.8
Mnm L	4	4.2	3.6	1.9	2.8	6.9
Mnm R	4	3.9	3.1	2.4	2.1	7.3
Nm L	4	5.1	4.0	2.3	3.8	8.5
Nm R	4	6.3	5.0	3.0	4.4	10.8
Al L	4	10.0	10.0	1.4	8.5	11.6
Al R	4	9.9	10.1	1.2	8.6	11.0
Lno L	4	13.1	12.7	1.2	12.1	14.8
Lno R	4	12.6	12.3	1.6	11.1	14.8
Cf L	4	12.9	12.3	1.6	11.9	15.3
Cf R	4	13.8	13.6	1.6	12.4	15.4
Sc L	4	13.1	13.1	1.1	11.8	14.6
Sc R	4	13.0	12.4	1.3	12.2	14.8
Fe L	4	5.4	5.3	1.1	4.4	6.8
Fe R	4	5.2	4.9	1.4	4.1	7.0
Lf L	4	6.5	6.5	1.2	5.1	7.9
Lf R	4	6.4	6.3	1.2	5.2	7.9
So L	4	7.6	7.7	1.5	5.7	9.2
So R	4	7.8	8.4	1.3	6.0	8.7
Os L	4	10.4	11.3	2.1	7.3	11.7
Os R	4	10.6	10.8	2.9	6.9	14.0
Or L	4	7.0	6.4	2.4	4.9	10.4
Or R	4	6.5	5.8	2.1	4.9	9.6

Table B.68 continued

Landmark		Males 55-64 years, 18.5 > BMI < 25.0 (<i>n</i> = 4)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	4	6.1	5.5	2.1	4.3	9.1
Sor R	4	5.9	4.8	2.7	4.1	10.0
Smc L	4	30.8	29.0	5.2	27.1	38.2
Smc R	4	30.5	30.5	3.3	27.3	33.9
Ecm L	4	34.4	33.7	4.9	29.1	41.0
Ecm R						
Ft L	4	7.8	7.6	2.3	5.4	10.6
Ft R	4	7.3	7.1	1.9	5.6	9.2
Fmt L	4	8.7	8.2	1.4	7.6	10.7
Fmt R	4	7.0	7.0	0.8	6.0	7.8
Fmo L	4	9.6	10.2	2.3	6.4	11.7
Fmo R	4	8.7	8.5	2.5	5.9	11.9
Ec L	4	8.6	8.8	0.9	7.4	9.5
Ec R	4	6.8	6.1	1.7	5.7	9.3
Mz L	4	8.1	8.1	1.2	6.9	9.5
Mz R	4	8.3	8.4	1.2	6.9	9.5
Zm L	4	13.8	13.3	2.4	11.9	17.0
Zm R	4	15.0	15.6	2.4	11.7	17.2
OI L						
OI R						
Ju L	4	9.5	9.6	1.9	7.5	11.4
Ju R	4	9.4	9.2	1.9	7.6	11.5
Zy L						
Zy R	4	9.1	9.3	2.5	6.0	11.8
Sgl L						
Sgl R						
Cdl L						
Cdl R	4	17.1	16.5	1.5	16.1	19.3

**Table B.69 - Facial soft tissue thicknesses (mm), males 55-64 years,
25.0 > BMI < 30.0**

Landmark		Males 55-64 years, 25.0 > BMI < 30.0 (<i>n</i> = 8)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	8	5.1	4.7	1.0	4.3	7.2
Sg	8	6.5	5.9	1.5	5.2	10.0
G	8	6.4	6.1	1.3	4.6	9.1
N	8	9.2	9.0	1.3	7.7	11.9
Mn	8	6.3	6.2	1.2	5.3	8.7
Rhi	8	4.1	4.3	1.0	2.6	5.5
Ss	8	14.5	14.8	2.7	11.2	18.9
Mp	7	12.6	13.1	1.8	9.1	14.8
Pr	5	12.1	12.1	1.3	10.3	13.7
Ids	5	13.2	13.6	1.6	10.9	14.7
Bilateral						
Nlr L	5	14.3	13.6	1.8	12.7	17.0
Nlr R	5	14.1	14.1	1.2	12.7	16.0
Nmf L	8	8.2	7.9	1.7	6.0	12.1
Nmf R	8	8.6	7.8	2.0	7.1	13.3
Mf L	8	9.2	9.6	2.6	6.0	14.0
Mf R	8	9.9	8.3	3.6	6.7	17.3
Mnm L	8	3.9	3.9	0.8	2.9	5.0
Mnm R	8	3.9	4.1	1.1	2.2	5.2
Nm L	8	4.9	5.0	1.0	3.4	6.3
Nm R	8	5.1	5.1	1.4	3.0	7.0
Al L	8	9.5	9.4	0.7	8.6	10.4
Al R	8	9.7	9.7	1.1	7.3	10.9
Lno L	8	13.4	12.6	3.4	10.3	20.4
Lno R	8	13.8	13.4	2.4	11.0	17.7
Cf L	7	13.2	10.8	7.0	9.1	28.9
Cf R	6	15.5	12.5	8.4	8.6	30.9
Sc L	6	12.7	13.0	3.0	9.5	17.4
Sc R	6	12.7	13.5	3.4	8.7	17.8
Fe L	8	5.9	6.1	0.9	4.6	7.1
Fe R	8	5.8	5.5	0.8	5.0	7.4
Lf L	8	7.7	7.2	1.4	6.1	9.9
Lf R	8	7.5	7.0	1.5	5.9	9.8
So L	8	8.7	8.0	1.7	7.0	12.4
So R	8	8.5	7.9	1.6	7.1	12.1
Os L	8	11.6	11.5	1.0	9.8	13.0
Os R	8	11.6	14.1	10.0	10.0	14.1
Or L	8	7.8	7.0	2.2	6.0	12.1
Or R	8	7.9	7.0	2.6	5.8	12.8

Table B.69 continued

Landmark		Males 55-64 years, 25.0 > BMI < 30.0 (<i>n</i> = 8)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	8	6.9	5.6	2.6	4.9	12.4
Sor R	8	7.3	6.6	2.9	4.0	12.6
Smc L	6	33.0	32.8	3.1	28.4	37.9
Smc R	6	35.9	36.4	2.9	31.6	38.5
Ecm L	4	38.8	38.2	1.7	37.6	41.3
Ecm R	4	38.4	39.7	3.9	32.8	41.6
Ft L	8	7.1	6.7	2.2	4.9	12.0
Ft R	8	7.5	6.6	2.2	5.4	12.0
Fmt L	8	8.0	7.8	1.6	5.6	10.8
Fmt R	8	8.8	8.1	2.0	7.2	12.8
Fmo L	8	10.6	10.5	2.9	6.1	14.0
Fmo R	8	10.2	11.1	2.6	5.6	14.0
Ec L	8	7.2	6.6	2.3	3.9	11.0
Ec R	8	7.2	7.3	1.8	4.7	9.9
Mz L	8	9.4	9.6	1.9	7.4	12.1
Mz R	8	9.3	9.1	1.7	7.3	11.9
Zm L	8	15.4	14.6	2.7	12.8	19.8
Zm R	8	14.9	15.2	1.8	11.7	17.2
Ol L						
Ol R	4	30.7	31.0	1.8	28.2	32.5
Ju L	7	10.6	10.7	1.7	7.5	12.8
Ju R	7	10.7	10.8	1.8	8.1	13.9
Zy L	5	9.4	9.5	3.2	6.1	14.0
Zy R	6	10.5	10.4	2.9	7.4	15.3
Sgl L	4	14.7	14.1	1.5	13.7	17.0
Sgl R	5	14.5	14.3	2.4	10.9	16.9
Cdl L	6	19.5	18.3	3.9	15.9	25.5
Cdl R	5	18.0	16.5	3.8	14.2	22.6

Table B.70 - Facial soft tissue thicknesses (mm), females 55-64 years, 25.0 > BMI < 30.0

Landmark		Females 55-64 years, 25.0 > BMI < 30.0 (<i>n</i> = 5)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	5	5.1	4.9	1.1	3.8	6.3
Sg	5	5.7	5.6	1.1	4.2	6.7
G	5	6.1	5.9	1.2	4.6	7.9
N	5	7.7	7.7	1.2	5.8	8.7
Mn	5	5.6	5.8	0.6	5.0	6.5
Rhi	5	3.8	3.8	0.8	3.1	5.1
Ss	5	13.0	12.7	1.9	11.4	16.2
Mp	5	11.1	11.4	1.3	8.9	12.1
Pr	5	9.5	9.7	0.4	8.8	9.9
Ids	5	10.6	10.5	0.5	10.1	11.4
Bilateral						
Nlr L	4	10.6	11.0	1.5	8.5	11.9
Nlr R						
Nmf L	5	6.3	6.0	1.0	5.1	7.8
Nmf R	5	6.2	6.2	1.0	4.6	7.4
Mf L	5	8.1	7.4	1.7	6.4	10.2
Mf R	5	8.3	7.9	1.2	6.9	9.7
Mnm L	5	3.8	3.8	0.8	2.6	4.7
Mnm R	5	3.7	4.1	1.1	1.8	4.4
Nm L	5	4.0	3.8	0.8	3.1	5.0
Nm R	5	4.9	4.7	1.6	2.7	6.9
Al L	5	8.5	8.6	0.4	8.2	9.1
Al R	5	8.7	8.6	1.6	6.7	10.6
Lno L	5	14.0	13.3	1.4	12.5	15.6
Lno R	5	14.1	14.5	2.3	10.5	16.4
Cf L	4	11.7	11.9	1.3	10.2	12.9
Cf R	5	12.4	12.2	1.5	10.7	14.7
Sc L						
Sc R	4	10.2	10.2	0.7	9.2	11.0
Fe L	5	5.9	5.4	0.9	5.1	6.9
Fe R	5	5.4	5.3	0.7	4.8	6.2
Lf L	5	7.2	7.3	0.6	6.1	7.6
Lf R	5	7.1	6.9	1.2	5.4	8.4
So L	5	9.4	8.9	1.3	8.1	11.2
So R	5	8.6	8.1	1.3	7.3	10.8
Os L	5	8.9	9.3	1.8	6.8	10.6
Os R	5	8.6	7.8	2.0	6.3	10.8
Or L	5	8.6	8.6	1.7	6.1	10.7
Or R	5	8.6	7.6	1.9	7.1	11.6

Table B.70 continued

Landmark		Females 55-64 years, 25.0 > BMI < 30.0 (<i>n</i> = 5)				
Bilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
Sor L	5	7.7	8.3	1.7	5.4	9.3
Sor R	5	7.9	7.0	1.9	5.6	10.0
Smc L	4	35.2	36.5	2.5	31.5	36.5
Smc R	4	35.0	34.4	3.8	31.3	39.9
Ecm L						
Ecm R						
Ft L	5	7.8	7.5	2.0	5.9	10.7
Ft R	5	7.8	6.9	2.6	5.8	12.1
Fmt L	5	6.8	7.5	2.3	4.4	9.1
Fmt R	5	7.8	7.9	1.6	5.3	9.7
Fmo L	5	9.5	9.1	2.8	6.7	12.6
Fmo R	5	9.4	8.2	3.3	6.3	13.8
Ec L	5	6.8	6.0	2.0	5.1	10.1
Ec R	5	7.0	6.0	2.1	5.0	9.9
Mz L	5	11.8	12.0	1.4	10.2	13.3
Mz R	5	12.4	12.4	1.8	10.0	14.4
Zm L	5	16.3	16.9	1.8	13.2	17.9
Zm R	5	17.1	17.9	1.8	14.6	18.9
Ol L	4	27.4	27.9	1.7	25.2	28.7
Ol R						
Ju L	4	12.3	12.3	1.3	10.8	13.6
Ju R	4	13.2	13.7	1.9	10.5	14.9
Zy L						
Zy R						
Sgl L						
Sgl R						
Cdl L						
Cdl R						

Table B.71 - Facial soft tissue thicknesses (mm), males 55-64 years, 30.0 > BMI

Landmark		Males 55-64 years, 30.0 > BMI (<i>n</i> = 6)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	6	5.7	6.1	0.8	4.4	6.4
Sg	6	7.7	7.6	0.5	7.2	8.4
G	6	6.9	6.9	0.9	5.7	8.4
N	6	9.6	9.6	1.0	8.3	11.4
Mn	6	6.8	6.9	0.8	5.4	7.7
Rhi	6	4.1	3.8	1.0	3.0	5.7
Ss	6	14.5	13.1	3.7	11.2	21.5
Mp	6	14.1	13.3	2.7	11.5	18.1
Pr	4	13.7	13.6	2.3	11.4	16.2
Ids	4	15.1	15.0	1.5	13.4	17.0
Bilateral						
Nlr L	4	15.6	15.5	3.2	12.5	18.8
Nlr R	4	15.0	14.8	3.0	12.3	18.0
Nmf L	6	8.9	8.0	2.5	7.0	13.6
Nmf R	6	9.0	8.3	1.8	7.5	12.3
Mf L	6	9.8	9.2	1.9	8.3	13.3
Mf R	6	10.5	9.6	2.8	7.6	14.0
Mnm L	6	5.0	4.7	1.8	3.1	7.9
Mnm R	6	4.9	5.0	1.1	3.4	6.5
Nm L	6	5.4	5.7	0.7	4.0	5.9
Nm R	6	6.8	7.0	0.7	5.7	7.4
Al L	6	9.9	9.9	0.9	8.6	11.4
Al R	6	11.6	12.3	1.5	9.1	12.8
Lno L	6	15.7	15.4	3.1	12.4	20.8
Lno R	6	14.6	14.9	1.5	12.0	16.1
Cf L	6	13.8	14.4	1.2	12.2	14.8
Cf R	6	14.9	14.6	3.2	11.6	20.3
Sc L	4	15.5	14.6	2.5	13.7	19.0
Sc R	4	15.0	14.2	1.9	13.8	17.7
Fe L	6	6.4	6.3	1.5	4.5	8.4
Fe R	6	5.7	5.5	0.8	4.9	7.1
Lf L	6	7.7	7.2	1.1	6.8	9.3
Lf R	6	7.6	7.6	1.0	6.4	9.1
So L	6	9.9	10.0	1.6	8.2	11.8
So R	6	9.6	9.3	1.6	8.0	11.5
Os L	6	11.2	11.2	2.1	7.6	13.9
Os R	6	10.9	11.4	2.2	8.0	13.5
Or L	6	9.8	9.8	2.0	7.3	12.0
Or R	6	9.5	9.2	2.0	7.5	13.0

Table B.71 continued

Landmark		Males 55-64 years, 30.0 > BMI (<i>n</i> = 6)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	6	8.8	8.8	1.9	6.2	11.4
Sor R	6	9.2	8.9	2.0	7.4	13.0
Smc L	5	35.1	35.0	2.8	32.1	39.0
Smc R	6	36.3	36.0	2.7	32.9	39.8
Ecm L						
Ecm R						
Ft L	6	8.8	8.6	1.6	6.8	11.1
Ft R	6	9.0	8.9	1.5	7.4	10.6
Fmt L	6	10.2	9.3	2.7	7.2	14.3
Fmt R	6	10.1	9.7	2.6	7.2	13.8
Fmo L	6	10.3	10.7	2.7	7.0	14.1
Fmo R	6	9.7	10.2	1.6	7.2	11.2
Ec L	6	7.2	6.8	1.6	5.1	9.3
Ec R	6	8.1	8.1	1.4	6.5	10.5
Mz L	6	11.4	11.7	1.4	8.7	12.6
Mz R	6	11.5	11.5	0.8	10.4	12.8
Zm L	6	16.6	17.0	2.4	13.8	19.7
Zm R	6	15.6	15.9	1.3	13.9	17.0
Ol L						
Ol R						
Ju L						
Ju R	6	12.4	11.8	2.0	10.4	15.8
Zy L						
Zy R	4	11.9	12.0	1.5	10.1	13.5
Sgl L						
Sgl R						
Cdl L						
Cdl R						

Table B.72 - Facial soft tissue thicknesses (mm), females 55-64 years, 30.0 > BMI

Landmark		Females 55-64 years, 30.0 > BMI (<i>n</i> = 6)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	6	4.9	5.0	1.4	2.6	6.3
Sg	6	6.5	7.2	1.6	3.5	7.7
G	6	6.6	6.8	1.4	4.3	8.4
N	6	8.7	8.4	1.4	7.3	11.4
Mn	6	6.3	6.5	1.0	4.8	7.7
Rhi	6	4.2	4.6	1.0	2.2	5.0
Ss	5	13.9	14.3	1.0	12.8	15.1
Mp	5	12.2	11.9	0.9	11.5	13.8
Pr	4	10.7	10.9	0.7	9.8	11.4
Ids						
Bilateral						
Nlr L	5	13.0	12.5	1.7	11.6	15.9
Nlr R	5	12.7	12.5	1.1	11.6	14.1
Nmf L	6	7.9	7.5	3.5	4.3	13.6
Nmf R	6	7.3	6.4	3.0	4.2	12.3
Mf L	6	7.3	7.1	1.9	5.1	9.9
Mf R	6	9.2	8.6	3.3	5.7	14.0
Mnm L	6	4.3	4.0	2.0	2.0	7.4
Mnm R	6	4.2	3.5	2.0	2.6	7.9
Nm L	6	5.2	5.6	1.6	2.4	7.2
Nm R	6	5.9	6.6	2.2	2.4	8.2
Al L	6	10.5	10.4	1.6	8.5	12.7
Al R	6	10.4	10.5	1.5	8.0	12.3
Lno L	6	13.9	13.9	2.3	10.3	17.1
Lno R	6	13.3	13.8	2.2	9.8	16.3
Cf L	6	12.5	12.1	1.9	9.9	15.0
Cf R	6	13.0	12.7	3.1	8.7	17.5
Sc L	4	11.4	10.9	1.6	10.2	13.7
Sc R	5	11.5	11.4	1.6	9.5	13.8
Fe L	6	6.2	6.4	1.8	3.4	8.4
Fe R	6	5.5	5.6	1.7	2.6	7.8
Lf L	6	7.3	7.0	2.1	4.1	10.4
Lf R	6	7.2	7.3	1.8	4.0	9.6
So L	6	9.1	9.0	1.9	6.4	11.1
So R	6	8.6	8.3	2.2	5.4	11.9
Os L	6	9.9	9.2	2.1	8.2	13.9
Os R	6	10.2	9.4	1.9	8.6	13.5
Or L	6	8.9	7.8	3.1	5.2	13.4
Or R	6	8.9	8.4	2.9	4.6	12.2

Table B.72 continued

Landmark		Females 55-64 years, 30.0 > BMI (<i>n</i> = 6)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	6	8.2	7.8	2.6	4.5	12.2
Sor R	6	8.3	8.8	2.6	3.9	11.8
Smc L	6	32.9	33.4	3.9	25.9	36.6
Smc R	6	31.8	32.9	3.1	26.2	35.1
Ecm L						
Ecm R	4	36.5	36.5	0.6	35.7	37.1
Ft L	6	7.1	7.0	2.3	3.4	10.2
Ft R	6	7.1	7.6	2.0	3.5	9.2
Fmt L	6	7.4	7.4	2.5	3.6	10.6
Fmt R	6	8.3	8.7	2.2	5.0	10.9
Fmo L	6	10.5	10.6	2.1	7.8	13.3
Fmo R	6	10.0	10.1	1.7	7.7	12.9
Ec L	6	7.3	7.1	2.8	4.1	11.3
Ec R	6	7.4	7.3	3.5	3.8	13.3
Mz L	6	12.3	12.0	2.5	8.6	15.3
Mz R	6	12.4	12.9	2.5	8.4	14.8
Zm L	6	18.0	17.9	1.5	16.0	20.6
Zm R	6	17.5	17.7	1.7	14.5	19.3
OI L						
OI R	4	26.9	28.5	5.5	19.0	31.4
Ju L						
Ju R	6	13.5	13.5	2.7	10.4	17.3
Zy L						
Zy R	5	10.6	10.4	2.4	7.4	13.6
Sgl L						
Sgl R						
Cdl L						
Cdl R						

**Table B.73 - Facial soft tissue thicknesses (mm), males 65-84 years,
18.5 > BMI < 25.0**

Landmark		Males 65-84 years, 18.5 > BMI < 25.0 (<i>n</i> = 9)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	9	5.0	5.1	1.8	2.9	8.5
Sg	9	5.7	5.9	0.6	4.5	6.4
G	9	5.3	5.2	0.9	3.8	6.7
N	9	8.1	7.9	0.9	6.4	6.5
Mn	9	5.5	5.6	0.7	4.5	6.6
Rhi	9	4.4	4.3	0.8	3.2	5.6
Ss	9	15.9	15.0	3.0	12.2	21.9
Mp	9	13.9	13.8	2.3	11.0	18.8
Pr	6	11.4	11.8	1.6	8.6	13.1
Ids	5	12.5	12.4	1.8	10.9	15.3
Bilateral						
Nlr L	7	14.8	14.3	2.8	11.9	20.4
Nlr R	7	14.6	14.0	2.8	11.1	20.1
Nmf L	9	7.0	6.6	1.7	5.1	10.1
Nmf R	9	6.5	6.1	1.7	4.5	9.7
Mf L	9	6.7	7.2	1.7	4.1	8.5
Mf R	9	6.8	6.9	1.8	4.2	9.3
Mnm L	8	3.9	3.8	0.8	2.7	5.3
Mnm R	8	4.3	4.5	1.0	2.2	5.4
Nm L	9	4.7	4.8	1.0	2.8	5.9
Nm R	9	5.0	4.7	1.1	3.2	6.7
Al L	9	9.2	9.3	1.3	6.9	10.6
Al R	9	9.8	10.3	1.3	7.8	11.2
Lno L	9	12.5	11.8	2.4	9.9	16.9
Lno R	9	12.7	11.7	2.1	10.6	16.5
Cf L	8	14.0	14.2	2.5	10.5	17.7
Cf R	8	13.8	14.6	2.1	10.6	16.1
Sc L	6	13.0	12.8	1.5	11.6	15.6
Sc R	6	13.5	13.2	0.7	13.1	15.0
Fe L	9	6.1	6.2	1.5	4.0	8.1
Fe R	9	5.8	6.1	1.5	3.7	7.8
Lf L	9	7.0	7.4	1.9	4.4	9.5
Lf R	9	6.7	6.8	1.5	4.6	8.7
So L	9	9.1	9.5	1.0	7.7	10.0
So R	9	9.0	9.3	1.1	7.2	10.4
Os L	9	9.0	9.0	0.6	8.1	9.8
Os R	9	8.9	9.3	2.1	4.4	10.7
Or L	9	7.3	7.8	2.1	3.9	9.7
Or R	9	7.1	7.1	1.7	4.6	9.4

Table B.73 continued

Landmark		Males 65-84 years, 18.5 > BMI < 25.0 (<i>n</i> = 9)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	9	6.6	6.1	2.3	3.8	10.3
Sor R	9	6.0	5.5	2.0	3.6	9.4
Smc L	9	27.7	27.9	4.5	20.9	34.0
Smc R	9	28.1	28.3	3.3	22.1	31.7
Ecm L	5	32.4	32.5	3.1	29.1	37.0
Ecm R	4	32.9	32.8	3.7	29.5	36.5
Ft L	9	6.4	5.8	1.8	4.4	9.8
Ft R	9	6.4	6.3	1.2	4.6	8.1
Fmt L	9	6.9	7.6	2.0	3.6	9.2
Fmt R	9	6.7	6.5	1.6	4.2	9.6
Fmo L	9	9.3	9.5	2.5	5.6	13.4
Fmo R	9	8.8	7.5	2.6	6.0	13.6
Ec L	9	7.3	6.5	2.1	4.9	11.1
Ec R	9	7.8	6.5	2.1	5.8	11.1
Mz L	9	8.4	8.9	1.4	6.3	9.9
Mz R	9	8.3	8.8	1.3	6.5	9.9
Zm L	9	13.7	12.9	1.8	11.7	16.6
Zm R	9	13.3	12.9	1.6	11.0	16.8
Ol L	6	27.4	27.2	2.8	23.6	32.0
Ol R	7	25.5	26.0	1.6	23.4	27.4
Ju L	8	8.9	8.9	1.6	5.9	10.7
Ju R	9	9.0	9.2	1.5	6.5	10.5
Zy L	6	8.4	8.6	1.9	5.4	10.6
Zy R	7	8.6	9.0	1.9	5.3	10.8
Sgl L	4	14.0	14.0	1.9	12.0	15.9
Sgl R	6	15.6	15.4	1.7	13.5	18.5
Cdl L						
Cdl R	5	17.2	17.2	3.1	13.9	21.7

**Table B.74 - Facial soft tissue thicknesses (mm), males 65-84 years,
25.0 > BMI < 30.0**

Landmark		Males 65-84 years, 25.0 > BMI < 30.0 (<i>n</i> = 9)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	9	4.9	4.8	1.1	3.0	6.9
Sg	9	6.7	6.9	1.2	5.4	8.3
G	9	6.5	6.5	1.1	5.2	8.7
N	9	9.6	9.7	1.5	7.4	12.6
Mn	9	6.3	5.7	1.3	5.3	8.5
Rhi	9	4.5	4.5	1.0	3.4	6.5
Ss	9	14.5	13.2	5.0	9.5	24.8
Mp	8	12.6	12.0	1.7	11.3	15.6
Pr	7	11.2	10.9	1.1	9.5	12.7
Ids	5	12.9	12.5	1.7	10.6	14.7
Bilateral						
Nlr L	7	14.5	15.1	1.5	12.2	16.2
Nlr R	7	14.1	14.9	1.7	11.6	16.0
Nmf L	9	7.8	6.9	1.8	5.4	10.4
Nmf R	9	7.9	8.3	1.7	5.7	10.5
Mf L	9	8.7	7.8	3.2	4.9	13.5
Mf R	9	8.7	8.0	2.9	4.2	12.8
Mnm L	9	3.5	3.2	0.9	2.7	5.4
Mnm R	8	4.1	3.8	1.1	3.0	6.6
Nm L	9	4.3	4.5	1.2	2.8	6.4
Nm R	9	4.2	4.3	1.5	2.1	5.7
Al L	9	10.4	10.6	1.7	7.7	12.6
Al R	9	10.7	10.6	2.0	7.6	14.7
Lno L	9	15.0	15.5	2.7	10.6	18.3
Lno R	9	15.0	15.1	2.6	11.2	18.9
Cf L	8	13.9	14.2	1.8	10.6	16.0
Cf R	8	14.1	14.2	1.1	12.4	15.3
Sc L	7	12.3	12.0	1.8	10.8	15.8
Sc R	7	12.6	13.3	2.0	10.2	15.9
Fe L	9	5.6	5.8	0.9	4.2	7.3
Fe R	9	5.6	5.4	1.4	3.6	7.8
Lf L	9	7.3	6.8	1.6	5.0	9.6
Lf R	9	7.6	7.6	1.4	5.6	10.0
So L	9	9.2	8.7	2.0	6.2	11.9
So R	9	9.2	8.8	1.2	8.0	10.9
Os L	9	8.9	8.4	2.4	5.6	12.7
Os R	9	9.4	9.2	2.3	6.2	12.5
Or L	9	8.5	8.7	1.9	6.1	11.6
Or R	9	9.0	9.0	2.0	6.0	12.5

Table B.74 continued

Landmark		Males 65-84 years, 25.0 > BMI < 30.0 (<i>n</i> = 9)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	9	8.2	8.0	2.4	5.6	12.2
Sor R	9	8.3	8.0	2.0	5.2	11.2
Smc L	8	34.1	34.0	3.7	29.9	41.3
Smc R	8	35.1	35.4	3.0	31.5	39.1
Ecm L						
Ecm R	4	41.0	41.6	2.6	37.3	43.5
Ft L	9	7.7	7.9	1.0	6.3	9.0
Ft R	9	8.4	8.9	1.5	6.7	10.8
Fmt L	9	8.1	8.3	1.7	5.7	11.5
Fmt R	9	9.0	9.1	1.8	6.9	12.1
Fmo L	9	9.4	9.5	2.2	6.7	12.9
Fmo R	9	9.3	8.3	1.9	7.3	11.8
Ec L	9	7.5	7.3	1.8	4.6	11.0
Ec R	9	7.6	7.1	1.3	6.5	10.0
Mz L	9	10.8	10.6	0.9	9.1	11.9
Mz R	9	11.0	11.2	1.5	8.7	12.7
Zm L	9	16.3	15.6	2.0	14.1	19.9
Zm R	9	14.7	15.4	1.8	12.5	17.9
Ol L						
Ol R	4	30.4	30.0	2.2	28.3	33.3
Ju L	6	11.4	11.4	1.7	9.2	14.0
Ju R	9	12.0	12.0	2.0	9.2	15.0
Zy L						
Zy R	4	10.9	11.6	2.4	7.5	12.8
Sgl L						
Sgl R						
Cdl L						
Cdl R						

Table B.75 - Facial soft tissue thicknesses (mm), females 65-84 years, 25.0 > BMI < 30.0

Landmark		Females 65-84 years, 25.0 > BMI < 30.0 (<i>n</i> = 11)													
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	σ	$\bar{x}$	MAD	Shor-Max
M	11	5.0	4.8	0.5	4.2	5.7	0.4	6	4.2	4.9	4.6	0.2	4.7	0.2	5.5
Sg	11	6.1	6.0	0.5	5.6	7.0	0.2	6	5.8	6.3	5.9	0.2	5.8	0.0	6.6
G	11	6.7	6.6	1.0	5.3	8.4	0.7	6	5.3	6.8	6.1	0.5	6.0	0.2	7.8
N	11	8.4	8.8	1.3	6.7	10.9	0.8	6	7.7	9.5	8.7	0.7	9.0	0.2	9.4
Mn	11	5.5	5.9	1.0	3.8	6.7	0.7	6	4.6	6.6	5.9	0.7	6.0	0.5	6.6
Rhi	11	3.6	3.4	1.0	2.1	5.2	0.7	6	2.3	3.9	3.2	0.6	3.3	0.5	4.8
Ss	10	14.6	14.5	2.2	11.6	17.6	1.9	6	11.6	15.5	13.5	1.5	13.2	1.4	17.1
Mp	10	11.2	11.3	1.3	8.8	13.3	0.7	6	10.1	11.9	11.1	0.6	11.2	0.5	12.6
Pr	7	10.1	10.4	1.3	8.4	11.8									
Ids	4	11.9	12.1	1.7	9.7	13.7									
Bilateral															
Nlr L	7	12.0	11.3	1.7	10.5	15.4									
Nlr R	7	11.8	11.8	1.2	10.4	14.2									
Nmf L	11	6.1	5.9	1.3	3.7	8.0	0.9	6	4.8	6.8	5.7	0.8	5.7	0.7	7.4
Nmf R	11	6.3	6.1	1.6	3.2	8.8	0.9	6	5.3	7.1	6.2	0.7	6.1	0.5	8.3
Mf L	11	7.5	7.8	1.7	4.6	10.0	0.9	6	6.9	8.6	7.7	0.6	7.8	0.3	9.4
Mf R	11	8.0	7.8	2.0	4.8	11.7	1.1	6	6.2	7.9	7.3	0.6	7.4	0.4	10.1
Mnm L	11	4.4	4.4	1.3	2.6	6.7	0.6	6	3.8	5.3	4.6	0.5	4.5	0.5	5.5
Mnm R	11	4.4	4.1	1.3	2.8	7.0	0.9	6	3.3	5.0	4.2	0.7	4.1	0.7	5.3
Nm L	11	4.9	5.1	1.2	2.5	6.4	0.8	6	3.8	5.4	4.7	0.6	4.7	0.6	6.2
Nm R	11	5.0	5.0	1.1	3.0	6.3	0.9	6	5.0	6.1	5.4	0.5	5.1	0.1	6.2
Al L	11	10.7	9.6	2.3	8.3	15.0	1.2	6	8.3	10.9	9.2	0.9	8.8	0.6	12.5
Al R	11	10.3	10.3	1.7	7.8	13.6	1.0	6	8.3	10.6	9.6	0.8	9.3	0.9	12.2

Table B.75 continued

Landmark		Females 65-84 years, 25.0 > BMI < 30.0 (<i>n</i> = 11)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{y}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	σ	$\bar{x}$	MAD	Shor-Max
Lno L	11	13.5	13.9	1.7	11.2	17.0	1.2	6	12.7	14.8	13.8	0.9	13.9	0.8	14.8
Lno R	11	13.6	13.6	1.5	11.3	17.0	1.0	6	13.0	14.7	13.8	0.6	13.7	0.2	15.8
Cf L	11	12.7	11.8	2.7	9.8	17.9	1.8	6	9.8	13.1	11.1	1.1	11.0	0.8	15.7
Cf R	11	11.9	11.1	2.5	8.6	16.2	1.4	6	8.6	11.4	10.2	0.9	10.4	0.6	14.5
Sc L	8	10.7	10.8	1.3	8.9	12.5									
Sc R	9	10.7	10.4	1.3	8.5	12.6									
Fe L	11	5.5	5.4	0.4	4.8	6.1	0.3	6	5.0	5.7	5.4	0.3	5.4	0.2	6.0
Fe R	11	5.2	5.2	1.0	4.0	7.5	0.6	6	4.4	5.3	55.0	0.4	5.2	0.1	5.7
Lf L	11	6.9	6.6	0.9	5.8	8.2	0.7	6	6.1	7.4	6.5	0.6	6.2	0.1	8.1
Lf R	11	6.6	6.5	1.0	5.1	8.5	0.5	6	5.5	6.7	6.3	0.4	6.4	0.3	7.7
So L	11	8.8	8.7	1.4	6.8	10.8	1.0	6	6.8	8.8	8.0	0.7	8.0	0.5	10.5
So R	11	8.7	8.4	1.3	6.7	11.1	1.1	6	8.3	9.8	9.0	0.7	8.9	0.6	10.1
Os L	11	10.0	9.7	1.6	7.8	13.6	0.6	6	8.5	9.9	9.4	0.5	9.5	0.3	11.1
Os R	11	10.4	10.0	1.5	8.9	13.2	0.9	6	8.9	10.4	9.5	0.6	9.2	0.3	12.2
Or L	11	9.2	7.9	2.5	6.5	13.5	1.0	6	6.5	8.6	7.6	0.7	7.7	0.2	10.9
Or R	11	9.2	8.9	2.0	6.0	13.1	1.7	6	8.6	10.7	9.6	1.0	9.0	0.4	10.7
Sor L	11	8.1	7.2	2.4	5.7	11.8	1.2	6	5.7	7.4	6.5	0.6	6.4	0.4	11.5
Sor R	11	8.0	7.8	2.1	4.9	11.6	1.6	6	6.3	9.7	8.0	1.4	7.8	1.3	9.9
Smc L	10	33.6	33.4	4.9	27.6	40.3	5.3	6	27.6	36.0	31.1	3.3	31.2	3.1	39.0
Smc R	10	34.4	34.2	5.0	27.7	41.4	4.6	6	27.7	36.6	31.8	3.3	31.2	2.7	40.1
Ecm L	6	37.2	37.4	4.7	30.9	43.1									
Ecm R	5	38.7	39.7	3.9	32.2	42.8									

Table B.75 continued

Landmark		Females 65-84 years, 25.0 > BMI < 30.0 (<i>n</i> = 11)													
Bilateral	<i>n</i>	$\bar{x}$	$\bar{y}$	σ	Min.	Max.	MAD	SH <i>n</i>	SH Min.	SH Max.	Shorth	σ	$\bar{x}$	MAD	Shor-Max
Ft L	11	7.4	7.3	2.0	4.5	11.5	1.4	6	5.5	8.4	6.8	1.1	6.8	0.9	8.9
Ft R	11	7.5	7.3	2.3	4.9	13.3	1.3	6	5.3	7.6	6.7	0.9	6.9	0.6	8.9
Fmt L	11	9.4	8.5	3.5	5.8	17.4	2.0	6	5.8	8.8	7.2	1.1	7.0	0.5	10.6
Fmt R	11	9.3	8.0	3.5	5.8	17.8	1.9	6	7.6	10.0	8.9	1.1	9.4	0.6	10.0
Fmo L	11	9.3	9.4	2.7	5.8	13.5	2.5	6	6.5	10.3	8.3	1.6	8.5	1.4	12.5
Fmo R	11	10.1	9.9	2.7	6.3	14.9	1.6	6	9.2	12.5	10.6	1.3	10.0	0.6	12.7
Ec L	11	7.5	7.5	2.1	4.1	10.6	1.5	6	5.8	9.0	7.6	1.3	7.5	1.3	10.3
Ec R	11	7.8	7.9	1.5	5.8	11.0	0.8	6	6.7	8.0	7.6	0.5	7.9	0.1	8.5
Mz L	11	11.8	11.8	1.6	9.1	15.4	0.8	6	10.7	12.1	11.4	0.5	11.2	0.6	12.8
Mz R	11	12.0	11.8	1.5	9.4	14.7	0.9	6	10.7	12.7	11.7	0.7	11.7	0.7	13.4
Zm L	11	15.6	15.5	2.3	12.8	20.4	1.7	6	12.8	15.9	14.2	1.2	14.1	0.9	17.3
Zm R	11	15.5	16.1	1.8	13.1	18.5	1.5	6	13.1	16.2	14.5	1.3	14.2	1.0	17.1
Ol L	7	25.6	25.2	2.4	23.1	29.9									
Ol R	10	26.8	26.9	3.2	22.1	31.3	2.6	6	23.8	29.0	26.3	2.2	25.8	2.0	31.0
Ju L	10	12.4	12.2	2.3	9.3	18.0	0.5	6	10.5	12.5	11.9	0.7	12.1	0.2	13.2
Ju R	9	11.4	11.2	1.0	9.7	13.2									
Zy L	8	9.3	9.5	2.0	5.7	11.7									
Zy R	8	10.6	10.2	1.8	8.1	13.5									
Sgl L	6	13.5	13.2	1.0	12.8	15.5									
Sgl R	7	14.0	13.7	1.3	12.5	16.5									
Cdl L	6	16.1	15.9	2.7	12.2	19.8									
Cdl R	6	15.2	15.7	1.4	12.9	16.9									

**Table B.76 - Facial soft tissue thicknesses (mm), males 65-84,
30.0 > BMI**

Landmark		Males 65-84 years, 30.0 > BMI (<i>n</i> = 4)				
Unilateral	<i>n</i>	$\bar{x}$	$\bar{x}$	σ	Min.	Max.
M	4	6.4	6.5	0.9	5.2	7.3
Sg	4	8.0	7.8	1.4	6.5	9.9
G	4	7.2	7.0	1.2	6.2	8.9
N	4	9.5	9.4	2.2	7.1	11.9
Mn	4	6.7	6.6	1.0	5.7	8.0
Rhi	4	4.6	4.4	0.8	3.7	5.4
Ss	4	12.8	13.4	3.5	8.6	16.0
Mp	4	13.1	13.2	2.1	11.1	15.1
Pr						
Ids						
Bilateral						
Nlr L	4	14.0	14.2	1.9	11.6	15.9
Nlr R	4	13.8	13.7	2.0	11.8	15.9
Nmf L	4	8.4	7.2	2.7	6.7	12.4
Nmf R	4	7.4	7.0	2.0	5.5	10.1
Mf L	4	8.7	8.9	1.0	7.4	9.8
Mf R	4	8.2	8.3	1.6	6.2	9.8
Mnm L	4	4.9	5.1	0.9	3.8	5.7
Mnm R	4	5.0	4.8	1.2	4.0	6.4
Nm L	4	4.2	4.3	1.3	2.9	5.5
Nm R	4	5.2	3.9	2.9	3.4	9.6
Al L	4	10.8	10.3	2.0	9.1	13.5
Al R	4	9.7	9.3	2.2	7.9	12.4
Lno L	4	16.0	15.7	1.5	14.5	17.9
Lno R	4	14.7	14.1	2.4	12.5	18.0
Cf L	4	15.0	15.1	2.1	13.0	17.0
Cf R	4	14.5	13.9	1.9	13.0	17.1
Sc L	4	15.0	15.2	1.3	13.4	16.5
Sc R	4	14.9	14.6	1.9	13.0	17.5
Fe L	4	6.7	6.6	0.6	6.2	7.6
Fe R	4	6.1	6.1	0.9	5.2	6.9
Lf L	4	7.7	7.6	1.1	6.7	9.0
Lf R	4	7.7	7.7	0.8	7.0	8.5
So L	4	10.6	10.7	1.3	9.0	11.9
So R	4	10.1	9.8	1.0	9.3	11.5
Os L	4	11.3	10.4	2.8	9.2	15.1
Os R	4	11.3	10.6	2.3	9.3	14.5
Or L	4	10.2	9.0	2.6	8.5	14.1
Or R	4	9.6	8.6	2.6	7.9	13.4

Table B.76 continued

Landmark		Males 65-84 years, 30.0 > BMI (<i>n</i> = 4)				
Bilateral	<i>n</i>	$\bar{x}$	$\tilde{x}$	σ	Min.	Max.
Sor L	4	9.3	8.5	2.9	6.8	13.5
Sor R	4	9.3	8.8	2.9	6.3	13.2
Smc L						
Smc R	4	33.7	31.1	6.4	29.5	43.0
Ecm L						
Ecm R						
Ft L	4	10.3	10.4	1.0	9.2	11.2
Ft R	4	10.8	10.4	2.6	8.2	14.4
Fmt L	4	10.8	10.3	2.1	8.8	13.7
Fmt R	4	12.0	11.0	4.4	7.8	18.0
Fmo L	4	12.4	12.6	2.4	9.3	15.3
Fmo R	4	11.2	10.8	1.6	9.9	13.5
Ec L	4	8.8	9.6	2.5	5.0	10.7
Ec R	4	7.9	8.2	1.7	5.6	9.5
Mz L	4	11.8	11.4	2.9	9.4	15.3
Mz R	4	11.7	10.9	3.0	9.3	15.8
Zm L	4	16.9	15.6	3.8	14.1	22.2
Zm R	4	16.0	14.6	3.8	13.4	21.6
Ol L						
Ol R						
Ju L						
Ju R						
Zy L						
Zy R						
Sgl L						
Sgl R						
Cdl L						
Cdl R						

Table B.77 - Results of MANOVA for between-subject effects of sex (male vs. females), age (<40 years vs. >40 years), and BMI (<25.0 kg/m² vs. >25.0 kg/m²)

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI
Midline							
Metopion	0.064	0.841	0.022	0.634	0.401	0.948	0.241
Supraglabella	0.006	0.379	< 0.001	0.680	0.814	0.949	0.196
Glabella	0.572	0.142	< 0.001	0.430	0.869	0.229	0.075
Nasion	< 0.001	0.233	0.033	0.785	0.678	0.352	0.024
Mid-nasal	< 0.001	0.009	0.036	0.891	0.933	0.351	0.492
Rhinion	< 0.001	0.019	0.006	0.272	0.208	0.524	0.158
Subspinale	0.001	0.132	0.121	0.700	0.860	0.290	0.144
Mid-philtrum	< 0.001	0.322	0.354	0.792	0.889	0.183	0.078
Prosthion	< 0.001	0.095	0.494	0.492	0.311	0.569	0.634
Alveolare	< 0.001	0.133	0.305	0.563	0.395	0.088	0.533
Bilateral							
Nasio-labial ridge left	< 0.001	0.193	0.666	0.841	0.499	0.862	0.031
Nasio-labial ridge right	< 0.001	0.221	0.306	0.837	0.773	0.840	0.099
Nasomaxillofrontale left	< 0.001	0.619	0.007	0.622	0.821	0.262	0.348
Nasomaxillofrontale right	< 0.001	0.699	0.010	0.424	0.900	0.531	0.149
Maxillofrontale left	< 0.001	0.587	0.010	0.981	0.637	0.148	0.155
Maxillofrontale right	0.001	0.292	0.005	0.531	0.895	0.082	0.034
Mid-nasomaxillare left	0.056	0.677	0.001	0.014	0.397	0.017	0.195
Mid-nasomaxillare right	0.205	0.564	< 0.001	0.190	0.771	0.002	0.206
Nasomaxillare left	0.001	0.784	0.017	0.912	0.468	0.229	0.572
Nasomaxillare right	0.074	0.090	< 0.001	0.879	0.211	0.911	0.970
Alare left	0.003	0.214	0.105	0.603	0.996	0.092	0.886
Alare right	0.001	0.087	0.125	0.598	0.970	0.584	0.579

Table B.77 continued

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI
Bilateral							
Lateral nostril left	0.022	0.228	0.036	0.302	0.547	0.250	0.016
Lateral nostril right	0.023	0.564	0.015	0.373	0.520	0.383	0.001
Canine fossa left	< 0.001	0.661	0.003	0.640	0.930	0.448	0.651
Canine fossa right	< 0.001	0.694	0.017	0.092	0.819	0.828	0.245
Supracanine left	< 0.001	0.235	0.053	0.686	0.157	0.153	0.251
Supracanine right	< 0.001	0.218	0.125	0.945	0.463	0.326	0.239
Frontal eminence left	< 0.001	0.030	0.008	0.618	0.278	0.979	0.763
Frontal eminence right	< 0.001	0.060	0.155	0.535	0.739	0.352	0.502
Lateral frontal left	0.021	0.264	< 0.001	0.320	0.345	0.742	0.655
Lateral frontal right	0.002	0.415	0.002	0.444	0.760	0.687	0.468
Supraorbital left	0.115	0.064	< 0.001	0.268	0.270	0.512	0.902
Supraorbital right	0.032	0.198	< 0.001	0.649	0.592	0.671	0.862
Orbitale superius left	< 0.001	0.142	< 0.001	0.272	0.050	0.951	0.647
Orbitale superius right	0.002	0.026	< 0.001	0.065	0.132	0.872	0.142
Orbitale left	0.775	0.056	0.017	0.211	0.254	0.090	0.572
Orbitale right	0.793	0.089	0.037	0.241	0.512	0.139	0.385
Suborbital left	0.789	0.176	0.004	0.297	0.430	0.770	0.848
Suborbital right	0.399	0.317	0.008	0.442	0.425	0.555	0.627
Submaxillar curvature left	0.839	0.115	< 0.001	0.987	0.376	0.874	0.022
Submaxillar curvature right	0.765	0.035	< 0.001	0.423	0.712	0.676	0.007
Ectomolare left	0.980	0.023	< 0.001	0.735	0.309	0.664	0.014
Ectomolare right	0.675	0.009	0.006	0.376	0.771	0.529	0.110

Table B.77 continued

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI
Bilateral							
Frontotemporale left	0.077	0.552	< 0.001	0.466	0.920	0.361	0.424
Frontotemporale right	0.057	0.619	< 0.001	0.206	0.887	0.554	0.733
Frontomalare temp. left	0.209	0.700	0.003	0.603	0.996	0.842	0.514
Frontomalare temp. right	0.345	0.548	< 0.001	0.631	0.488	0.775	0.095
Frontomalare orb. left	0.221	0.027	0.003	0.291	0.026	0.858	0.105
Frontomalare orb. right	0.771	0.015	0.025	0.163	0.010	0.569	0.646
Ectoconchion left	0.154	0.001	0.185	0.299	0.010	0.463	0.022
Ectoconchion right	0.618	0.005	0.153	0.128	0.024	0.475	0.431
Mid-zygomatic left	0.001	0.533	< 0.001	0.157	0.932	0.459	0.192
Mid-zygomatic right	0.001	0.192	< 0.001	0.026	0.967	0.733	0.262
Zygomaxillare left	0.303	0.086	0.003	0.439	0.422	0.457	0.509
Zygomaxillare right	0.577	0.024	0.132	0.308	0.903	0.222	0.583
Occlusal line left	0.001	0.063	< 0.001	0.104	0.865	0.467	0.058
Occlusal line right	0.001	0.117	< 0.001	0.092	0.858	0.290	0.055
Jugale left	0.017	0.558	< 0.001	0.112	0.640	0.880	0.131
Jugale right	0.083	0.511	< 0.001	0.028	0.585	0.928	0.164
Zygion left	0.724	0.017	< 0.001	0.025	0.802	0.805	0.089
Zygion right	0.620	0.154	< 0.001	0.002	0.839	0.932	0.080
Supraglenoid left	< 0.001	0.039	< 0.001	0.067	0.615	0.096	0.036
Supraglenoid right	0.002	0.223	< 0.001	0.016	0.275	0.090	0.006
Condylion lateral left	0.012	0.208	< 0.001	0.171	0.301	0.781	0.386
Condylion lateral right	< 0.001	0.229	< 0.001	0.005	0.379	0.922	0.460

bold = statistically significant at level $p < 0.001$

Table B.78 - Variance and associated error (n_p^2) in sex, age group, and BMI category

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI
Midline							
Metopion	0.04	0.00	0.06	0.00	0.01	0.00	0.02
Supraglabella	0.09	0.01	0.14	0.00	0.00	0.00	0.02
Glabella	0.00	0.03	0.22	0.01	0.00	0.02	0.04
Nasion	0.15	0.02	0.05	0.00	0.00	0.01	0.06
Mid-nasal	0.17	0.08	0.05	0.00	0.00	0.01	0.01
Rhinion	0.18	0.06	0.09	0.01	0.02	0.01	0.02
Subspinale	0.13	0.03	0.03	0.00	0.00	0.01	0.03
Mid-philtrum	0.27	0.01	0.01	0.00	0.00	0.02	0.04
Prosthion	0.36	0.03	0.01	0.01	0.01	0.00	0.00
Alveolare	0.27	0.03	0.01	0.00	0.01	0.03	0.01
Bilateral							
Nasio-labial ridge left	0.31	0.02	0.00	0.00	0.01	0.00	0.05
Nasio-labial ridge right	0.29	0.02	0.01	0.00	0.00	0.00	0.03
Nasomaxillofrontale left	0.23	0.00	0.08	0.00	0.00	0.02	0.01
Nasomaxillofrontale right	0.20	0.00	0.08	0.01	0.00	0.01	0.03
Maxillofrontale left	0.16	0.00	0.08	0.00	0.00	0.03	0.02
Maxillofrontale right	0.12	0.01	0.09	0.01	0.00	0.04	0.05
Mid-nasomaxillare left	0.04	0.00	0.13	0.07	0.01	0.07	0.02
Mid-nasomaxillare right	0.02	0.00	0.25	0.02	0.00	0.11	0.02
Nasomaxillare left	0.13	0.00	0.07	0.00	0.01	0.02	0.00
Nasomaxillare right	0.04	0.03	0.14	0.00	0.02	0.00	0.00
Alare left	0.10	0.02	0.03	0.00	0.00	0.03	0.00
Alare right	0.13	0.04	0.03	0.00	0.00	0.00	0.00

Table B.78 continued

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI
Bilateral							
Lateral nostril left	0.06	0.02	0.05	0.01	0.00	0.02	0.07
Lateral nostril right	0.06	0.00	0.07	0.01	0.01	0.01	0.12
Canine fossa left	0.23	0.00	0.10	0.00	0.00	0.01	0.00
Canine fossa right	0.27	0.00	0.07	0.03	0.00	0.00	0.02
Supracanine left	0.40	0.02	0.04	0.00	0.02	0.02	0.02
Supracanine right	0.39	0.02	0.03	0.00	0.01	0.01	0.02
Frontal eminence left	0.14	0.06	0.08	0.00	0.01	0.00	0.00
Frontal eminence right	0.15	0.04	0.02	0.01	0.00	0.01	0.01
Lateral frontal left	0.06	0.02	0.15	0.01	0.01	0.00	0.00
Lateral frontal right	0.11	0.01	0.11	0.01	0.00	0.00	0.01
Supraorbital left	0.03	0.04	0.23	0.02	0.01	0.01	0.00
Supraorbital right	0.05	0.02	0.18	0.00	0.00	0.00	0.00
Orbitale superius left	0.14	0.03	0.24	0.01	0.05	0.00	0.00
Orbitale superius right	0.11	0.06	0.22	0.04	0.03	0.00	0.03
Orbitale left	0.00	0.04	0.07	0.02	0.02	0.03	0.00
Orbitale right	0.00	0.03	0.05	0.02	0.01	0.03	0.01
Suborbital left	0.00	0.02	0.10	0.01	0.01	0.00	0.00
Suborbital right	0.01	0.01	0.08	0.01	0.01	0.00	0.00
Submaxillar curvature left	0.00	0.03	0.19	0.00	0.01	0.00	0.06
Submaxillar curvature right	0.00	0.05	0.19	0.01	0.00	0.00	0.08
Ectomolare left	0.00	0.06	0.15	0.00	0.01	0.00	0.07
Ectomolare right	0.00	0.08	0.09	0.01	0.00	0.01	0.03

Table B.78 continued

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI
Bilateral							
Frontotemporale left	0.04	0.00	0.26	0.01	0.00	0.01	0.01
Frontotemporale right	0.04	0.00	0.17	0.02	0.00	0.00	0.00
Frontomalare temp. left	0.02	0.00	0.10	0.00	0.00	0.00	0.01
Frontomalare temp. right	0.01	0.00	0.16	0.00	0.01	0.00	0.03
Frontomalare orb. left	0.02	0.06	0.10	0.01	0.06	0.00	0.03
Frontomalare orb. right	0.00	0.07	0.06	0.02	0.08	0.00	0.00
Ectoconchion left	0.02	0.13	0.02	0.01	0.08	0.01	0.06
Ectoconchion right	0.00	0.09	0.02	0.03	0.06	0.01	0.01
Mid-zygomatic left	0.12	0.01	0.18	0.02	0.00	0.01	0.02
Mid-zygomatic right	0.12	0.02	0.17	0.06	0.00	0.00	0.02
Zygomaxillare left	0.01	0.04	0.10	0.01	0.01	0.01	0.01
Zygomaxillare right	0.00	0.06	0.03	0.01	0.00	0.02	0.00
Occlusal line left	0.13	0.04	0.19	0.03	0.00	0.01	0.04
Occlusal line right	0.13	0.03	0.19	0.03	0.00	0.01	0.04
Jugale left	0.07	0.00	0.17	0.03	0.00	0.00	0.03
Jugale right	0.04	0.01	0.17	0.06	0.00	0.00	0.02
Zygion left	0.00	0.07	0.23	0.06	0.00	0.00	0.03
Zygion right	0.00	0.02	0.26	0.11	0.00	0.00	0.04
Supraglenoid left	0.14	0.05	0.23	0.04	0.00	0.03	0.05
Supraglenoid right	0.11	0.02	0.28	0.07	0.01	0.03	0.09
Condylion lateral left	0.07	0.02	0.17	0.02	0.01	0.00	0.01
Condylion lateral right	0.19	0.02	0.15	0.09	0.01	0.00	0.01

Table B.79 - Effect sizes (η^2) of sex, age group, and BMI category

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI	Error
Midline								
M	0.03	*0.08	*0.07	0.02	0.01	0.06	*0.08	**0.65
Sg	0.06	0.05	*0.10	0.06	0.04	*0.08	*0.13	**0.49
G	0.01	*0.08	*0.15	0.03	0.06	*0.10	*0.13	**0.45
N	*0.14	*0.07	0.03	0.02	0.03	*0.13	*0.09	**0.50
Mn	*0.12	*0.07	0.03	0.03	0.03	0.06	0.02	**0.64
Rhi	*0.13	*0.12	0.03	0.03	0.03	*0.07	0.06	**0.52
Ss	*0.08	0.03	0.00	*0.09	0.06	*0.18	0.06	**0.50
Mp	*0.12	0.02	0.05	*0.09	*0.11	*0.18	0.05	**0.38
Pr	*0.19	0.03	0.04	*0.07	*0.13	*0.15	0.05	**0.35
Ids	*0.18	0.02	0.04	0.03	0.05	*0.13	0.04	**0.52
Bilateral								
Nlr	*0.12	0.03	0.05	0.08	*0.14	*0.16	*0.08	**0.34
Nlr	*0.11	0.04	0.03	*0.10	*0.11	*0.19	0.04	**0.39
Nmf L	*0.20	0.03	*0.08	0.03	0.00	0.06	*0.10	**0.50
Nmf R	*0.15	0.05	*0.08	0.06	0.01	0.05	*0.14	**0.47
Mf L	*0.11	0.05	0.06	0.02	0.00	*0.09	0.03	**0.63
Mf R	*0.09	0.03	*0.08	0.04	0.01	*0.11	*0.10	**0.55
Mnm L	0.05	0.06	0.06	0.05	0.01	*0.08	*0.10	**0.57
Mnm R	0.03	0.05	*0.15	0.02	0.01	*0.10	*0.12	**0.51
Nm L	0.06	0.04	0.06	0.05	0.04	*0.16	*0.09	**0.50
Nm R	0.01	*0.07	*0.11	0.05	0.04	0.06	*0.07	**0.60
Al L	*0.07	*0.09	0.03	0.05	0.04	*0.10	0.06	**0.57
Al R	0.04	0.06	0.05	0.02	0.02	*0.09	0.04	**0.68

Table B.79 continued

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI	Error
Bilateral								
Ln L	0.04	0.02	*0.08	*0.07	0.05	*0.12	*0.09	**0.54
Ln R	0.05	*0.07	0.02	*0.07	0.04	*0.11	*0.14	**0.51
Cf L	0.04	0.03	*0.11	0.06	*0.08	*0.19	0.05	**0.45
Cf R	*0.11	0.01	0.05	0.03	0.06	*0.20	*0.09	**0.46
Sc L	**0.23	0.06	0.05	*0.07	*0.10	*0.10	0.03	**0.37
Sc R	**0.23	0.05	0.06	0.04	*0.07	*0.09	0.02	**0.45
Fe L	*0.10	*0.10	*0.08	0.03	0.01	*0.12	0.05	**0.52
Fe R	*0.11	*0.07	0.00	0.04	0.04	*0.13	*0.08	**0.53
Lf L	0.05	*0.11	*0.13	0.02	0.01	*0.09	0.04	**0.56
Lf R	0.06	*0.08	*0.07	0.04	0.02	*0.10	*0.08	**0.56
So L	0.00	*0.17	*0.16	0.01	0.01	*0.10	0.03	**0.52
So R	0.00	*0.14	*0.10	0.06	0.04	*0.17	*0.09	**0.40
Os L	*0.16	*0.07	*0.18	0.06	0.02	0.05	0.01	**0.44
Os R	*0.11	*0.09	*0.15	*0.07	0.02	0.05	0.02	**0.49
Or L	0.00	*0.15	*0.10	0.02	0.00	*0.12	0.03	**0.57
Or R	0.00	*0.11	*0.08	0.03	0.01	*0.14	0.05	**0.57
Sor L	0.00	*0.11	*0.13	0.01	0.01	*0.07	0.06	**0.61
Sor R	0.01	*0.10	*0.11	0.01	0.01	*0.10	0.06	**0.60
Smc L	0.01	*0.10	*0.13	0.01	0.03	0.03	*0.07	**0.62
Smc R	0.01	*0.14	*0.11	0.01	0.04	0.06	*0.09	**0.55
Ecm L	0.02	*0.09	*0.09	0.01	0.04	0.03	*0.13	**0.59
Ecm R	0.02	*0.09	*0.08	0.01	0.02	0.08	*0.13	**0.57

Table B.79 continued

Landmark	Sex	Age	BMI	Sex*Age	Sex*BMI	Age*BMI	Sex*Age*BMI	Error
Bilateral								
Ft L	0.02	*0.12	*0.19	0.03	0.01	*0.10	0.06	**0.48
Ft R	0.03	*0.12	*0.12	0.01	0.03	0.06	*0.11	**0.53
Fmt L	0.04	0.06	*0.07	0.03	0.01	*0.09	*0.07	**0.63
Fmt R	0.02	*0.08	*0.14	0.05	0.02	*0.09	*0.10	**0.50
Fmo L	0.01	*0.10	*0.15	0.04	0.04	0.04	0.03	**0.60
Fmo R	0.00	*0.11	*0.12	0.06	0.05	*0.08	0.03	**0.55
Ec L	0.01	**0.21	0.06	0.04	0.04	0.06	0.05	**0.53
Ec R	0.00	*0.18	0.06	0.05	0.05	*0.08	0.02	**0.56
Mz L	0.06	0.02	*0.18	0.04	0.01	*0.07	0.03	**0.60
Mz R	0.06	0.06	*0.15	*0.10	0.01	0.06	0.02	**0.54
Zm L	0.00	*0.17	*0.12	0.01	0.05	*0.07	0.05	**0.53
Zm R	0.00	*0.16	*0.07	0.01	0.03	*0.15	0.02	**0.56
Ol L	*0.10	0.06	*0.14	0.01	0.03	*0.07	*0.09	**0.50
Ol R	*0.09	0.04	*0.17	0.01	0.03	*0.11	*0.13	**0.42
Ju L	0.03	*0.10	*0.16	*0.08	0.00	*0.07	0.05	**0.52
Ju R	0.01	*0.12	*0.17	*0.07	0.01	*0.11	0.04	**0.48
Zy L	0.00	*0.07	**0.26	0.05	0.01	0.06	0.05	**0.50
Zy R	0.00	0.05	**0.29	0.04	0.01	*0.09	0.05	**0.48
Sgl L	*0.12	0.03	*0.16	0.02	0.03	*0.10	0.06	**0.49
Sgl R	0.03	0.02	**0.27	0.05	0.04	*0.13	0.03	**0.44
Cdl L	0.04	0.04	*0.20	0.03	0.03	0.04	0.03	**0.60
Cdl R	0.05	0.04	**0.24	0.06	0.02	*0.07	0.02	**0.51

* Medium effect

** Large effect

Table B.80 - Results of the ANOVA for the between-subject effects of sex, in general and within age groups

Landmark	All ages	< 24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-84 years
Midline							
Metopion	***0.000	*0.010	**0.009	**0.001	***0.000✕	*0.029	0.265✕
Supraglabella	***0.000	0.070	***0.000✕	***0.000	*0.020	**0.005	0.160
Glabella	0.122	0.084	0.113	0.056	0.972	0.390	0.138
Nasion	***0.000✕	***0.000	***0.000	***0.000✕	***0.000✕	**0.005	*0.036
Mid-nasal	***0.000✕	*0.046	***0.000	***0.000	***0.000✕	**0.004	0.100
Rhinion	***0.000	**0.006	***0.000	**0.001	**0.008✕	*0.045	***0.000
Subspinale	***0.000	*0.048	***0.000	***0.000✕	***0.000	*0.022	0.780✕
Mid-philtrum	***0.000✕	***0.000	***0.000✕	***0.000	***0.000	***0.000	**0.001
Prosthion	***0.000	*0.039	***0.000✕	***0.000	***0.000	***0.000	**0.005
Alveolare	***0.000	**0.002	***0.000	***0.000	*0.015	***0.000	0.360
Bilateral							
Nasio-labial ridge left	***0.000✕	***0.000	***0.000✕	***0.000	***0.000	**0.001	***0.000
Nasio-labial ridge right	***0.000✕	***0.000	***0.000	***0.000	***0.000✕	**0.001	***0.000
Nasomaxillofrontale left	***0.000✕	***0.000	***0.000	***0.000	***0.000	***0.000	**0.005
Nasomaxillofrontale right	***0.000✕	**0.002	***0.000	***0.000	***0.000	***0.000	*0.019
Maxillofrontale left	***0.000✕	*0.040	***0.000	**0.002	**0.004	**0.001	0.961
Maxillofrontale right	***0.000✕	0.075	***0.000	***0.000	**0.005	*0.024✕	0.801
Mid-nasomaxillare left	**0.004	0.473	0.490	0.006	0.160	0.069	0.786
Mid-nasomaxillare right	*0.016	0.941	0.504	0.152	0.343	0.058	0.560
Nasomaxillare left	***0.000	*0.019	***0.000	*0.033	**0.002	0.062	0.972
Nasomaxillare right	***0.000	**0.004	***0.000	**0.003	**0.002	*0.019	0.557
Alare left	***0.000	**0.004	***0.000	**0.007	**0.003✕	0.217	0.925
Alare right	**0.000	**0.002	0.128	*0.010	**0.004✕	*0.023	0.500

Table B.80 continued

Landmark	All ages	< 24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-84 years
Bilateral							
Lateral nostril left	***0.000✕	*0.014	**0.004	**0.001	*0.034‡	0.526	0.455
Lateral nostril right	***0.000✕	**0.002	***0.000✕	**0.002	**0.003‡	0.284	0.525
Canine fossa left	***0.000	**0.009	***0.000✕	**0.002	0.076	0.451	*0.036
Canine fossa right	***0.000	*0.019	***0.000	**0.007	**0.003	0.365	**0.001
Supracanine left	***0.000✕	***0.000	***0.000	***0.000	***0.000✕	***0.000	**0.001
Supracanine right	***0.000✕	***0.000	***0.000	***0.000	***0.000✕	**0.002	***0.000
Frontal eminence left	***0.000	0.239	***0.000	**0.002	***0.000	0.065	0.051
Frontal eminence right	***0.000✕	0.097	**0.001	**0.001	**0.002	*0.018	0.084
Lateral frontal left	***0.000	0.461	***0.000	***0.000	**0.009	**0.005	0.159‡
Lateral frontal right	***0.000	0.277	***0.000✕	**0.001	**0.002	*0.023	0.227
Supraorbital left	***0.000	0.584	*0.017	**0.003	0.185	0.433	0.079
Supraorbital right	***0.000	*0.046	*0.019‡	**0.002	0.187	0.234	0.058
Orbitale superius left	***0.000	**0.001	***0.000	***0.000	***0.000	***0.000	0.428
Orbitale superius right	***0.000	*0.012	***0.000	***0.000	***0.000	***0.000	0.957
Orbitale left	0.897	0.288	0.138	0.617	0.277	0.454	0.472
Orbitale right	0.772	0.578	0.114	0.516	0.235	0.661	0.617
Suborbital left	0.994	0.650	0.168	0.448	0.611	0.587	0.927
Suborbital right	0.212	0.834	0.823	0.236	0.388	0.387	0.992
Submaxillar curvature left	0.073	0.567	0.560	**0.005	0.327	0.417	0.327
Submaxillar curvature right	*0.015	0.271	0.579	*0.028	*0.044	**0.009	0.533
Ectomolare left	***0.000✕	0.287	*0.048	**0.006	0.067	0.139	0.807
Ectomolare right	**0.002	0.087	0.100	*0.023	*0.021‡	0.258	0.533

Table B.80 continued

Landmark	All ages	< 24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-84 years
Bilateral							
Frontotemporale left	***0.000	0.623	*0.021	**0.001	0.124	*0.022	0.073
Frontotemporale right	***0.000	0.419	0.061 ~~‡~~	*0.012	0.132	**0.008	*0.040
Frontomalare temp. left	***0.000	0.623	*0.021	**0.002	0.064	**0.006	0.641
Frontomalare temp. right	***0.000	0.318	**0.002 ~~‡~~	**0.002	0.133	**0.009	0.192
Frontomalare orb. left	*0.014	0.377	0.170	**0.005	0.278	0.190	0.549
Frontomalare orb. right	**0.007	0.303	0.910	**0.003	0.155	0.219	0.983
Ectoconchion left	0.157	0.239	0.571	0.119	0.241	0.058	0.646
Ectoconchion right	0.104	0.051	0.900	0.487	0.111	*0.013	0.381
Mid-zygomatic left	***0.000 ~~‡~~	***0.000	**0.001	0.528	0.088	0.050	*0.039
Mid-zygomatic right	***0.000	***0.000	**0.004	0.201	0.439	*0.031	*0.024
Zygomaxillare left	0.728 ~~‡~~	0.055	0.305	*0.042	0.241	0.554	0.830
Zygomaxillare right	0.796	0.141	0.647	0.121	0.363	0.174 ~~‡~~	0.464
Occlusal line left	***0.000	*0.010	**0.001	***0.000	*0.021	0.101	*0.013
Occlusal line right	***0.000	*0.014	***0.000	***0.000	*0.011	*0.041	0.098
Jugale left	0.051	*0.044	0.158	0.528	0.996	0.442	0.140
Jugale right	0.163	0.053	0.125	0.372	0.983	0.343	0.674 ~~‡~~
Zygion left	0.236	0.177	0.461	**0.001	0.200	0.923	0.656
Zygion right	0.163	0.585	0.875	**0.002	0.739	0.163	0.599
Supraglenoid left	***0.000	*0.037	0.052	**0.003	0.068	0.126	0.411
Supraglenoid right	***0.000	0.064	***0.000	**0.006	**0.005	0.450	**0.005
Condylion lateral left	***0.000	0.144	*0.020	**0.007	*0.017	0.070	0.411
Condylion lateral right	***0.000	0.522	0.055	**0.001	**0.005	0.062	0.181

Table B.81 - Effect sizes (η^2) of sex, in general and within age groups

Landmark	All ages	< 24	25-34	35-44	45-54	55-64	65-84
Midline		years	years	years	years	years	years
Metopion	*0.10	*0.14	*0.12	*0.15	*0.19	*0.11	0.03
Supraglabella	*0.12	*0.07	**0.26	*0.18	*0.09	*0.18	0.05
Glabella	0.01	*0.07	0.05	0.05	0.00	0.02	0.05
Nasion	**0.22	**0.35	**0.29	**0.26	**0.27	*0.18	*0.10
Mid-nasal	*0.18	*0.09	0.04	**0.28	**0.25	*0.19	0.06
Rhinion	*0.14	*0.16	**0.25	*0.15	*0.11	*0.10	**0.27
Subspinale	*0.17	*0.09	**0.38	**0.27	*0.20	*0.13	0.00
Mid-philtrum	**0.38	**0.28	**0.53	**0.44	**0.41	**0.30	**0.26
Prosthion	**0.25	*0.09	**0.33	**0.32	**0.21	**0.47	**0.27
Alveolare	**0.25	*0.20	**0.41	**0.25	*0.13	**0.53	0.05
Bilateral							
Nasio-labial ridge L	**0.42	**0.45	**0.52	**0.36	**0.42	**0.35	**0.36
Nasio-labial ridge R	**0.41	**0.39	**0.55	**0.46	**0.37	**0.33	**0.40
Nasomaxillofrontale L	**0.27	**0.31	**0.32	**0.32	**0.31	**0.28	*0.17
Nasomaxillofrontale R	**0.25	*0.20	**0.32	**0.23	**0.32	**0.37	*0.12
Maxillofrontale L	*0.12	*0.09	**0.21	*0.14	*0.13	**0.23	0.00
Maxillofrontale R	*0.11	*0.07	**0.22	*0.18	*0.12	*0.14	0.00
Mid-nasomaxillare L	0.03	0.01	0.01	0.11	0.03	*0.08	0.00
Mid-nasomaxillare R	0.02	0.00	0.01	0.03	0.02	*0.09	0.01
Nasomaxillare L	*0.09	*0.12	**0.32	*0.07	*0.15	*0.08	0.00
Nasomaxillare R	*0.09	*0.17	**0.24	*0.12	*0.15	*0.13	0.01
Alare L	*0.07	*0.18	*0.09	*0.11	*0.14	0.04	0.00
Alare R	0.06	*0.20	0.04	*0.10	*0.13	*0.12	0.01
Lateral nostril L	*0.09	*0.13	*0.14	*0.17	*0.07	0.01	0.01
Lateral nostril R	*0.12	*0.20	**0.29	*0.14	*0.13	0.03	0.01
Canine fossa L	*0.11	*0.15	**0.25	*0.13	0.05	0.02	*0.11
Canine fossa R	*0.13	*0.12	**0.29	*0.10	*0.13	0.02	**0.25
Supracanine L	**0.38	**0.26	**0.50	**0.45	**0.32	**0.38	**0.31
Supracanine R	**0.38	**0.29	**0.47	**0.42	**0.42	**0.28	**0.44
Frontal eminence L	*0.10	0.03	**0.23	*0.13	*0.20	*0.08	*0.09
Frontal eminence R	*0.12	0.06	*0.20	*0.14	*0.15	*0.13	*0.07
Lateral frontal L	*0.11	0.01	**0.24	*0.19	*0.11	*0.18	0.05
Lateral frontal R	*0.11	0.03	**0.31	*0.15	*0.15	*0.12	0.03
Supraorbital L	0.04	0.01	*0.11	*0.12	0.03	0.02	*0.07
Supraorbital R	0.06	*0.09	*0.10	*0.13	0.03	0.04	*0.08
Orbitale superius L	*0.17	**0.23	**0.34	**0.26	*0.20	**0.32	0.02
Orbitale superius R	*0.14	*0.14	**0.40	**0.22	*0.19	**0.29	0.00

Table B.81 continued

Landmark	All ages	< 24	25-34	35-44	45-54	55-64	65-84
Bilateral		years	years	years	years	years	years
Orbitale L	0.00	0.03	0.04	0.00	0.02	0.01	0.01
Orbitale R	0.00	0.01	0.05	0.01	0.02	0.00	0.01
Suborbital L	0.00	0.00	0.03	0.01	0.00	0.01	0.00
Suborbital R	0.00	0.00	0.00	0.02	0.01	0.02	0.00
Submaxillar curvat. L	0.01	0.01	0.01	*0.12	0.02	0.02	0.03
Submaxillar curvat. R	0.02	0.03	0.01	*0.07	*0.07	*0.18	0.01
Ectomolare L	0.05	0.03	*0.07	*0.13	*0.07	*0.12	0.00
Ectomolare R	0.04	*0.07	0.05	*0.08	*0.12	0.06	0.03
Frontotemporale L	*0.07	0.01	*0.09	*0.16	0.04	*0.12	*0.07
Frontotemporale R	*0.07	0.01	0.06	*0.09	0.04	*0.16	*0.10
Frontomalare temp. L	0.06	0.01	*0.09	*0.14	0.06	*0.18	0.01
Frontomalare temp. R	*0.07	0.02	*0.18	*0.13	0.04	*0.16	0.04
Frontomalare orb. L	0.02	0.02	0.03	*0.11	0.02	0.04	0.01
Frontomalare orb. R	0.02	0.02	0.00	*0.13	0.03	0.04	0.00
Ectoconchion L	0.01	0.03	0.01	0.04	0.02	*0.09	0.01
Ectoconchion R	0.01	0.08	0.00	0.01	0.04	*0.14	0.02
Mid-zygomatic L	*0.09	**0.42	*0.18	0.01	0.05	*0.09	*0.10
Mid-zygomatic R	*0.11	**0.38	*0.14	0.02	0.01	*0.11	*0.11
Zygomaxillare L	0.00	*0.08	0.02	0.06	0.02	0.01	0.00
Zygomaxillare R	0.00	0.05	0.00	0.04	0.01	0.04	0.01
Occlusal line L	*0.18	*0.15	*0.19	**0.37	*0.11	*0.14	**0.31
Occlusal line R	*0.17	*0.13	**0.30	**0.37	*0.12	*0.19	*0.11
Jugale L	0.01	*0.09	0.04	0.01	0.00	0.02	0.06
Jugale R	0.01	*0.08	0.05	0.01	0.00	0.02	0.00
Zygion L	0.01	0.06	0.01	*0.19	0.05	0.00	0.01
Zygion R	0.01	0.01	0.00	*0.16	0.00	0.06	0.01
Supraglenoid L	*0.11	*0.14	*0.11	*0.17	*0.11	*0.13	*0.12
Supraglenoid R	*0.12	*0.09	**0.28	*0.14	**0.23	0.02	**0.32
Condylion laterale L	*0.10	*0.07	*0.16	*0.16	*0.19	*0.16	0.06
Condylion laterale R	*0.10	0.01	*0.09	*0.19	**0.24	*0.14	*0.09

* Medium effect

** Large effect

Table B.82 - Correlations of facial soft tissue thicknesses with age (years)

Facial soft tissue thickness measurement recorded at:	r_s	N	Sig. (2-tailed)	R^2	Variation accounted for (%)
Metopion	0.103	320	0.067		
Supraglabella	0.228	320	0.000	0.0520	5.1984
Glabella	0.278	320	0.000	0.0773	7.7284
Nasion	0.157	320	0.005	0.0246	2.4649
Mid-nasal	0.087	319	0.121		
Rhinion	0.232	318	0.000	0.0538	5.3824
Subspinale	-0.207	316	0.000	0.0428	4.2849
Mid-philtrum	-0.230	310	0.000	0.0529	5.2900
Prosthion	-0.320	274	0.000	0.1024	10.2400
Alveolare	-0.286	247	0.000	0.0818	8.1796
Nasio-labial ridge left	-0.166	286	0.000	0.0276	2.7556
Nasio-labial ridge right	-0.201	287	0.000	0.0404	4.0401
Nasomaxillofrontale left	-0.114	320	0.042	0.0130	1.2996
Nasomaxillofrontale right	-0.057	320	0.310		
Maxillofrontale left	-0.177	320	0.001	0.0313	3.1329
Maxillofrontale right	-0.158	320	0.005	0.0250	2.4964
Mid-nasomaxillare left	0.038	311	0.506		
Mid-nasomaxillare right	0.101	315	0.073		
Nasomaxillare left	0.029	318	0.607		
Nasomaxillare right	0.049	318	0.386		
Alare left	0.149	320	0.008	0.0222	2.2201
Alare right	0.183	320	0.001	0.0335	3.3489
Lateral nostril left	0.008	320	0.883		
Lateral nostril right	-0.006	320	0.921		
Canine fossa left	-0.073	311	0.201		
Canine fossa right	-0.053	312	0.350		
Supracanine left	-0.230	280	0.000	0.0529	5.2900
Supracanine right	-0.262	286	0.000	0.0686	6.8644
Frontal eminence left	0.175	318	0.002	0.0306	3.0625
Frontal eminence right	0.127	320	0.023	0.0161	1.6129
Lateral frontal left	0.206	319	0.000	0.0424	4.2436
Lateral frontal right	0.197	320	0.000	0.0388	3.8809
Supraorbital left	0.339	319	0.000	0.1149	11.4921
Supraorbital right	0.336	320	0.000	0.1129	11.2896
Orbitale superius left*	0.203	320	0.000	0.0412	4.1209
Orbitale superius right*	0.203	320	0.000	0.0412	4.1209
Orbitale left	0.241	320	0.000	0.0581	5.8081
Orbitale right	0.272	320	0.000	0.0740	7.3984
Suborbital left	0.151	320	0.007	0.0228	2.2801
Suborbital right	0.168	320	0.003	0.0282	2.8224

Table B.82 continued

Facial soft tissue thickness measurement recorded at:	r_s	N	Sig. (2-tailed)	R^2	Variation accounted for (%)
Submaxillar curvature left	0.240	306	0.000	0.0576	5.7600
Submaxillar curvature right	0.294	309	0.000	0.0864	8.6436
Ectomolare left	0.325	246	0.000	0.1056	10.5625
Ectomolare right	0.369	252	0.000	0.1362	13.6161
Frontotemporale left	0.081	319	0.149		
Frontotemporale right	0.119	320	0.033	0.0142	1.4161
Frontomolare temporale left	0.105	320	0.061		
Frontomolare temporale right	0.148	320	0.008	0.0219	2.1904
Frontomolare orbitale left	0.234	320	0.000	0.0548	5.4756
Frontomolare orbitale right	0.234	319	0.000	0.0548	5.4756
Ectoconchion left	0.375	320	0.000	0.1406	14.0625
Ectoconchion right	0.359	320	0.000	0.1289	12.8881
Mid-zygomatic left	0.217	320	0.000	0.0471	4.7089
Mid-zygomatic right	0.200	320	0.000	0.0400	4.0000
Zygomaxillare left	0.109	320	0.052		
Zygomaxillare right	0.081	319	0.147		
Occlusal line left	0.097	244	0.130		
Occlusal line right*	0.104	255	0.098	0.0108	1.0816
Jugale left	0.162	291	0.006	0.0262	2.6244
Jugale right	0.163	309	0.004	0.0266	2.6569
Zygion left	0.159	205	0.023	0.0253	2.5281
Zygion right	0.202	242	0.002	0.0408	4.0804
Supraglenoid left*	0.194	181	0.009	0.0376	3.7636
Supraglenoid right*	0.155	216	0.022	0.0240	2.4025
Condylion laterale left	0.065	172	0.394		
Condylion laterale right*	0.093	210	0.182		

‡ Pearson product moment correlation coefficient

* Statistically significant at level $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$

Table B.83 - Results of the ANOVA for the between-subject effects of age group in both sexes as well as in males and females separately

Landmark	Both sexes	Males	Females
Midline			
Metopion	0.057	0.192	0.177
Supraglabella	0.000	0.077	0.001
Glabella	0.000	0.178	0.000
Nasion	0.066	0.355	0.007
Mid-nasal	0.154	0.062	0.250
Rhinion	0.001	0.009	0.017
Subspinale	0.004	0.005	0.048
Mid-philtrum	0.003	0.007	0.018
Prosthion	0.000	0.004	0.000
Alveolare	0.001	0.009	0.038
Bilateral			
Nasio-labial ridge left	0.144	0.187	0.265
Nasio-labial ridge right	0.022	0.046	0.199
Nasomaxillofrontale left	0.111	0.234	0.537
Nasomaxillofrontale right	0.263	0.321	0.498
Maxillofrontale left	0.006	0.007	0.464
Maxillofrontale right	0.061	0.028	0.542
Mid-nasomaxillare left	0.105	0.172	0.075
Mid-nasomaxillare right	0.001	0.029	0.046
Nasomaxillare left	0.585	0.413	0.213
Nasomaxillare right	0.225	0.026	0.239
Alare left	0.042	0.411	0.016
Alare right	0.001	0.033	0.001
Lateral nostril left	0.466	0.403	0.502
Lateral nostril right	0.787	0.674	0.225
Canine fossa left	0.293	0.231	0.893
Canine fossa right	0.421	0.822	0.298
Supracanine left	0.015	0.080	0.003
Supracanine right	0.006	0.114	0.001
Frontal eminence left	0.016	0.091	0.063
Frontal eminence right	0.144	0.328	0.425
Lateral frontal left	0.001	0.034	0.008
Lateral frontal right	0.005	0.150	0.004
Supraorbital left	0.000	0.000	0.000
Supraorbital right	0.000	0.000	0.000
Orbitale superius left	0.024	0.000	0.002
Orbitale superius right	0.004	0.002	0.000
Orbitale left	0.000	0.003	0.052
Orbitale right	0.000	0.000	0.016

Table B.83 continued

Landmark	Both sexes	Males	Females
Bilateral			
Suborbital left	0.009	0.030	0.418
Suborbital right	0.016	0.102	0.259
Submaxillar curvature left	0.000	0.002	0.013
Submaxillar curvature right	0.000	0.000	0.005
Ectomolare left	0.000	0.001	0.030
Ectomolare right	0.000	0.000	0.001
Frontotemporale left	0.260	0.121	0.597
Frontotemporale right	0.061	0.033	0.525
Frontomolare temp. left	0.517	0.233	0.529
Frontomolare temp. right	0.037	0.078	0.120
Frontomolare orb. left	0.000	0.003	0.022
Frontomolare orb. right	0.000	0.007	0.010
Ectoconchion left	0.000	0.000	0.001
Ectoconchion right	0.000	0.000	0.003
Mid-zygomatic left	0.001	0.001	0.168
Mid-zygomatic right	0.000	0.000	0.095
Zygomaxillare left	0.004	0.005	0.079
Zygomaxillare right	0.000	0.004	0.011
Occlusal line left	0.032	0.000	0.721
Occlusal line right	0.006	0.001	0.118
Jugale left	0.060	0.040	0.552
Jugale right	0.001	0.005	0.161
Zygion left	0.012	0.000	0.864
Zygion right	0.000	0.001	0.023
Supraglenoid left	0.003	0.079	0.014
Supraglenoid right	0.038	0.093	0.036
Condylion lateral left	0.607	0.105	0.651
Condylion lateral right	0.767	0.064	0.928

* Statistically significant at level $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$

Table B.84 - Effect sizes (η^2) of age group, in both sexes and in males and females

Landmark	Both sexes	Males	Females
Midline			
Metopion	0.03	0.05	0.05
Supraglabella	*0.07	0.06	*0.13
Glabella	*0.09	0.05	*0.20
Nasion	0.03	0.03	*0.10
Mid-nasal	0.03	*0.07	0.04
Rhinion	0.06	*0.09	*0.09
Subspinale	0.05	*0.10	*0.07
Mid-philtrum	0.06	*0.10	*0.09
Prosthion	*0.10	*0.12	*0.16
Alveolare	*0.08	*0.11	*0.10
Bilateral			
Nasio-labial ridge left	0.03	0.05	0.05
Nasio-labial ridge right	0.05	*0.08	0.05
Nasomaxillofrontale left	0.03	0.04	0.03
Nasomaxillofrontale right	0.02	0.04	0.03
Maxillofrontale left	0.05	*0.10	0.03
Maxillofrontale right	0.03	*0.08	0.06
Mid-nasomaxillare left	0.03	0.05	*0.07
Mid-nasomaxillare right	0.06	*0.08	0.05
Nasomaxillare left	0.01	0.03	0.04
Nasomaxillare right	0.02	*0.08	*0.09
Alare left	0.04	0.03	*0.13
Alare right	0.06	*0.08	0.03
Lateral nostril left	0.01	0.03	0.04
Lateral nostril right	0.01	0.02	0.01
Canine fossa left	0.02	0.04	0.04
Canine fossa right	0.02	0.01	*0.13
Supracanine left	0.05	*0.07	*0.13
Supracanine right	0.06	0.06	*0.13
Frontal eminence left	0.04	0.06	*0.07
Frontal eminence right	0.03	0.04	0.03
Lateral frontal left	0.06	*0.07	*0.10
Lateral frontal right	0.05	0.05	*0.10
Supraorbital left	*0.13	*0.14	*0.15
Supraorbital right	*0.14	*0.16	*0.17
Orbitale superius left	0.04	*0.14	*0.12
Orbitale superius right	0.05	*0.11	*0.14
Orbitale left	*0.08	*0.11	*0.07
Orbitale right	*0.10	*0.13	*0.09

Table B.84 continued

Landmark	Both sexes	Males	Females
Bilateral			
Suborbital left	0.05	* 0.08	0.03
Suborbital right	0.04	0.06	0.04
Submaxillar curvature left	* 0.08	* 0.12	* 0.09
Submaxillar curvature right	* 0.13	** 0.23	* 0.11
Ectomolare left	* 0.10	* 0.15	* 0.10
Ectomolare right	* 0.17	** 0.23	* 0.16
Frontotemporale left	0.02	0.05	0.02
Frontotemporale right	0.03	* 0.07	0.03
Frontomalare temp. left	0.01	0.04	0.03
Frontomalare temp. right	0.04	0.06	0.05
Frontomalare orb. left	* 0.07	* 0.11	* 0.08
Frontomalare orb. right	* 0.08	* 0.10	* 0.09
Ectoconchion left	* 0.18	** 0.27	* 0.13
Ectoconchion right	* 0.15	** 0.25	* 0.11
Mid-zygomatic left	0.06	* 0.12	0.05
Mid-zygomatic right	* 0.07	* 0.14	0.06
Zygomaxillare left	0.05	* 0.10	0.06
Zygomaxillare right	* 0.07	* 0.11	* 0.09
Occlusal line left	0.05	*0.20	0.02
Occlusal line right	0.06	* 0.16	* 0.07
Jugale left	0.04	* 0.08	0.03
Jugale right	0.06	* 0.11	0.05
Zygion left	* 0.07	** 0.27	0.02
Zygion right	* 0.09	* 0.17	* 0.10
Supraglenoid left	* 0.10	* 0.12	* 0.14
Supraglenoid right	0.05	* 0.09	* 0.10
Condylion lateral left	0.02	* 0.12	0.04
Condylion lateral right	0.01	* 0.12	0.01

* Medium effect

** Large effect

Table B.85a - Results of multiple comparisons (Tukey HSD) for age groups, both sexes

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
Mt	0.236	1.000	0.983	1.000	0.868	0.236	0.289	0.068	0.315	*0.047
Sg	0.450	1.000	0.706	0.617	0.251	0.450	0.437	**0.007	**0.009	**0.001
G	0.864	0.980	0.162	0.100	*0.010	0.864	0.334	**0.003	**0.002	***0.000
N	1.000	1.000	0.599	0.372	0.600	1.000	0.995	0.343	0.188	0.369
Mn	0.997	1.000	0.636	0.613	1.000	0.997	0.984	0.269	0.284	0.995
Rhi	1.000	0.568	0.166	0.052	**0.007	1.000	0.643	0.193	0.060	**0.008
Ss	0.982	0.866	0.295	**0.004	0.281	0.982	0.998	0.691	*0.020	0.639
Mpt	0.535	0.191	0.117	**0.001	**0.003	0.535	0.998	0.980	0.157	0.436
Pr	0.395	*0.031	*0.000	**0.001	**0.001	0.395	0.870	0.081	0.133	0.151
Ids	0.236	0.288	**0.008	**0.002	0.113	0.236	1.000	0.711	0.260	0.922
Nlr L	0.596	0.826	0.624	0.115	0.266	0.596	0.997	1.000	0.828	0.968
Nlr R	0.413	0.426	0.397	*0.020	*0.047	0.413	1.000	1.000	0.567	0.771
Nmf L	0.560	0.742	0.097	0.610	0.125	0.560	0.999	0.930	1.000	0.922
Nmf R	0.599	0.915	0.424	1.000	0.430	0.599	0.981	1.000	0.790	0.999
Mf L†	0.384	0.546	0.087	0.090	**0.008	0.384	1.000	0.894	0.864	0.249
Mf R	0.573	0.505	0.254	0.370	*0.020	0.573	1.000	0.995	0.998	0.527
Mnm L†	0.647	0.988	0.871	0.991	0.842	0.647	0.957	1.000	0.471	0.131
Mnm R†	0.141	0.976	0.653	0.992	0.367	0.141	0.357	0.948	0.778	***0.000
Nm L†	0.799	0.991	1.000	1.000	0.999	0.799	0.346	0.742	0.848	0.987
Nm R†	0.696	1.000	0.982	0.868	1.000	0.696	0.705	0.342	0.305	0.969
Al L	0.999	0.502	0.450	0.798	*0.042	0.999	0.689	0.632	0.920	0.073
Al R	1.000	0.217	0.427	0.427	**0.006	1.000	0.084	0.219	0.241	**0.001

Table B.85a continued

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
Lno L†	0.692	0.959	1.000	0.999	1.000	0.692	0.327	0.790	0.982	0.729
Lno R	0.962	1.000	1.000	0.982	1.000	0.962	0.853	0.875	1.000	0.953
Cf L	0.997	0.997	1.000	0.302	1.000	0.997	1.000	0.999	0.528	0.992
Cf R†	0.420	0.898	1.000	0.991	0.473	0.420	0.971	0.633	0.973	1.000
Sc L†	0.780	0.352	*0.015	*0.037	*0.037	0.780	0.996	0.519	0.434	0.574
Sc R†	0.623	0.216	*0.010	*0.013	*0.012	0.623	0.998	0.637	0.385	0.494
Fe L†	0.872	0.970	0.906	0.795	0.197	0.872	0.271	0.192	0.238	**0.008
Fe R†	0.890	1.000	0.972	0.998	0.613	0.890	0.885	0.330	0.727	0.088
Lf L	0.509	0.997	0.579	0.888	0.302	0.509	0.150	**0.005	0.056	**0.002
Lf R	0.799	0.999	0.777	0.762	0.184	0.799	0.454	0.065	0.090	**0.003
So L†	0.702	0.268	**0.004	0.077	***0.000	0.702	*0.023	***0.000	0.008	***0.000
So R	0.962	0.150	*0.022	*0.012	***0.000	0.962	**0.007	***0.000	***0.000	***0.000
Os L†	0.968	0.474	0.354	0.052	0.076	0.968	0.915	0.828	0.204	0.334
Os R†	0.955	0.393	0.201	0.118	**0.003	0.955	0.879	0.686	0.369	*0.027
Or L†	0.704	0.935	0.378	0.244	**0.008	0.704	0.222	*0.016	*0.020	***0.000
Or R†	0.522	0.756	0.194	0.323	**0.001	0.522	*0.022	***0.000	*0.011	***0.000
Sor L†	0.996	0.572	0.125	0.779	0.065	0.996	0.292	0.038	0.548	*0.024
Sor R†	0.927	0.766	0.672	0.736	0.136	0.927	0.163	0.110	0.245	***0.000
Smc L†	0.984	*0.017	*0.011	**0.001	0.107	0.984	0.050	*0.034	**0.004	0.231
Smc R†	0.975	*0.013	***0.000	**0.002	*0.016	0.975	**0.001	***0.000	***0.000	**0.003
Ecm L†	0.998	*0.047	*0.048	**0.005	0.087	0.998	*0.040	*0.039	**0.003	0.065
Ecm R†	0.994	**0.002	**0.002	**0.002	*0.017	0.994	**0.001	**0.001	**0.001	*0.011

Table B.85a continued

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
Ft L	0.739	1.000	1.000	0.999	0.940	0.739	0.421	0.512	0.495	0.184
Ft R†	0.277	1.000	1.000	0.997	0.862	0.277	0.223	0.157	0.245	*0.046
Fmt L	1.000	0.991	0.563	0.914	0.804	1.000	0.999	0.688	0.967	0.895
Fmt R†	0.957	0.760	0.485	0.524	0.440	0.957	0.240	0.090	0.172	0.131
Fmo L†	1.000	0.983	0.595	*0.014	*0.029	1.000	0.996	0.662	*0.015	*0.031
Fmo R	0.598	0.999	0.826	0.285	0.075	0.598	0.277	*0.033	**0.003	***0.000
Ec L†	1.000	0.565	**0.003	**0.001	***0.000	1.000	0.572	**0.007	**0.001	***0.000
Ec R†	0.998	0.267	*0.021	*0.027	***0.000	0.998	0.128	**0.009	*0.013	***0.000
Mz L	1.000	0.080	0.110	0.062	*0.035	1.000	0.052	0.076	*0.043	*0.022
Mz R	1.000	0.156	*0.031	0.062	0.097	1.000	0.061	**0.008	*0.023	*0.039
Zm L	0.208	0.997	0.829	0.912	1.000	0.208	*0.032	**0.003	*0.015	0.216
Zm R	0.062	0.995	0.976	0.670	0.903	0.062	**0.004	**0.002	***0.000	0.557
Ol L†	0.993	0.196	0.999	0.923	0.946	0.993	*0.031	0.898	0.707	0.769
Ol R†	0.725	0.233	0.620	0.738	0.923	0.725	**0.005	*0.037	0.183	0.322
Ju L	0.978	0.685	0.635	0.478	0.901	0.978	0.173	0.154	0.119	0.477
Ju R	0.528	0.683	0.573	0.324	0.918	0.528	*0.010	**0.006	**0.003	0.081
Zy L	0.996	0.103	0.465	0.688	0.941	0.996	*0.012	0.148	0.352	0.716
Zy R	0.580	0.412	0.180	0.812	0.727	0.580	**0.003	**0.001	*0.048	*0.035
Sgl L†	0.831	0.946	0.187	1.000	0.192	0.831	0.145	**0.002	0.987	**0.008
Sgl R	0.687	0.900	0.990	0.990	0.528	0.687	0.079	0.318	0.377	*0.033
Cdl L	1.000	1.000	0.714	0.984	1.000	1.000	1.000	0.633	0.972	1.000
Cdl R†	1.000	0.851	0.921	0.986	0.933	1.000	0.861	0.929	0.989	0.940

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.85b - Results of multiple comparisons (Tukey HSD) for age groups, both sexes

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
Mt	1.000	0.289	0.963	0.998	0.813	0.983	0.068	0.963	1.000	0.996
Sg	1.000	0.437	0.484	0.419	0.116	0.706	**0.007	0.484	1.000	0.941
G	0.980	0.334	0.415	0.268	*0.035	0.162	**0.003	0.415	0.997	0.801
N	1.000	0.995	0.616	0.377	0.625	0.599	0.343	0.616	0.995	1.000
Mn	1.000	0.984	0.628	0.614	1.000	0.636	0.269	0.628	1.000	0.698
Rhi	0.568	0.643	0.959	0.663	0.248	0.166	0.193	0.959	0.977	0.724
Ss	0.866	0.998	0.885	*0.042	0.832	0.295	0.691	0.885	0.381	1.000
Mp†	0.191	0.998	1.000	0.271	0.647	0.117	0.980	1.000	0.475	0.852
Pr	*0.031	0.870	0.570	0.589	0.627	***0.000	0.081	0.570	1.000	1.000
Ids	0.288	1.000	0.614	0.202	0.884	**0.008	0.711	0.614	0.933	1.000
Nlr L	0.826	0.997	0.999	0.574	0.833	0.624	1.000	0.999	0.790	0.954
Nlr R	0.426	1.000	1.000	0.493	0.708	0.397	1.000	1.000	0.560	0.766
Nmf L	0.742	0.999	0.723	0.999	0.735	0.097	0.930	0.723	0.958	1.000
Nmf R	0.915	0.981	0.924	0.982	0.905	0.424	1.000	0.924	0.637	1.000
Mf L†	0.546	1.000	0.868	0.836	0.261	0.087	0.894	0.868	1.000	0.871
Mf R	0.505	1.000	0.996	0.998	0.496	0.254	0.995	0.996	1.000	0.802
Mnm L†	0.988	0.957	0.995	0.877	0.510	0.871	1.000	0.995	0.673	0.288
Mnm R†	0.976	0.357	0.942	1.000	0.064	0.653	0.948	0.942	0.988	*0.011
Nm L†	0.991	0.346	0.997	1.000	0.944	1.000	0.742	0.997	1.000	0.996
Nm R†	1.000	0.705	0.970	0.840	1.000	0.982	0.342	0.970	0.992	0.961
Al L	0.502	0.689	1.000	1.000	0.676	0.450	0.632	1.000	0.998	0.760
Al R	0.217	0.084	0.999	1.000	0.572	0.427	0.219	0.999	1.000	0.371

Table B.85b continued

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
Lno L†	0.959	0.327	0.959	0.935	0.999	1.000	0.790	0.959	1.000	0.999
Lno R	1.000	0.853	1.000	0.920	1.000	1.000	0.875	1.000	0.932	1.000
Cf L	0.997	1.000	0.999	0.470	0.992	1.000	0.999	0.999	0.315	1.000
Cf R†	0.898	0.971	0.955	1.000	0.957	1.000	0.633	0.955	0.996	0.636
Sc L†	0.352	0.996	0.790	0.663	0.820	*0.015	0.519	0.790	0.998	1.000
Sc R†	0.216	0.998	0.804	0.524	0.654	*0.010	0.637	0.804	0.986	0.999
Fe L†	0.970	0.271	0.999	0.972	0.454	0.906	0.192	0.999	0.996	0.692
Fe R†	1.000	0.885	0.935	0.995	0.493	0.972	0.330	0.935	1.000	0.936
Lf L	0.997	0.150	0.789	0.980	0.468	0.579	**0.005	0.789	0.998	0.990
Lf R	0.999	0.454	0.905	0.887	0.257	0.777	0.065	0.905	1.000	0.834
So L†	0.268	*0.023	0.736	0.883	*0.048	**0.004	***0.000	0.736	1.000	0.496
So R	0.150	**0.007	0.956	0.797	*0.015	*0.022	***0.000	0.956	0.996	0.145
Os L†	0.474	0.915	1.000	0.651	0.882	0.354	0.828	1.000	0.764	0.951
Os R†	0.393	0.879	1.000	0.862	0.304	0.201	0.686	1.000	0.940	0.449
Or L†	0.935	0.222	0.942	0.740	0.135	0.378	*0.016	0.942	0.989	0.560
Or R†	0.756	*0.022	0.943	0.934	0.078	0.194	***0.000	0.943	1.000	0.408
Sor L†	0.572	0.292	0.969	1.000	0.730	0.125	*0.038	0.969	0.983	0.975
Sor R†	0.766	0.163	1.000	1.000	0.769	0.672	0.110	1.000	1.000	0.832
Smc L†	*0.017	0.050	1.000	0.940	1.000	*0.011	*0.034	1.000	0.949	1.000
Smc R†	*0.013	**0.001	0.846	0.830	0.982	***0.000	***0.000	0.846	1.000	1.000
Ecm L†	*0.047	*0.040	1.000	0.698	0.990	*0.048	*0.039	1.000	0.764	0.995
Ecm R†	**0.002	**0.001	0.999	0.775	0.599	**0.002	**0.001	0.999	0.931	0.761

Table B.85b continued

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
Ft L	1.000	0.421	1.000	1.000	0.983	1.000	0.512	1.000	1.000	0.973
Ft R†	1.000	0.223	1.000	0.999	0.917	1.000	0.157	1.000	0.998	0.871
Fmt L	0.991	0.999	0.842	0.995	0.969	0.563	0.688	0.842	0.995	1.000
Fmt R†	0.760	0.240	0.998	0.986	0.967	0.485	0.090	0.998	0.999	0.997
Fmo L†	0.983	0.996	0.914	0.056	0.101	0.595	0.662	0.914	0.425	0.568
Fmo R	0.999	0.277	0.919	0.359	0.091	0.826	*0.033	0.919	0.896	0.533
Ec L†	0.565	0.572	0.169	*0.028	***0.000	**0.003	**0.007	0.169	0.879	0.061
Ec R†	0.267	0.128	0.652	0.559	***0.000	*0.021	**0.009	0.652	1.000	0.050
Mz L	0.080	0.052	1.000	0.998	0.989	0.110	0.076	1.000	0.996	0.983
Mz R	0.156	0.061	0.975	0.982	0.997	*0.031	**0.008	0.975	1.000	1.000
Zm L	0.997	*0.032	0.961	0.987	0.997	0.829	**0.003	0.961	1.000	0.842
Zm R	0.995	**0.004	1.000	0.876	0.558	0.976	**0.002	1.000	0.954	0.433
Ol L†	0.196	*0.031	0.297	0.956	0.948	0.999	0.898	0.297	0.976	0.985
Ol R†	0.233	**0.005	0.983	0.999	0.951	0.620	*0.037	0.983	1.000	1.000
Ju L	0.685	0.173	1.000	0.992	1.000	0.635	0.154	1.000	0.997	0.999
Ju R	0.683	*0.010	1.000	0.968	0.999	0.573	**0.006	1.000	0.991	0.995
Zy L	0.103	*0.012	0.986	0.976	0.765	0.465	0.148	0.986	1.000	0.981
Zy R	0.412	**0.003	0.985	0.997	1.000	0.180	**0.001	0.985	0.908	0.963
Sgl L†	0.946	0.145	0.575	0.899	0.536	0.187	**0.002	0.575	0.233	1.000
Sgl R	0.900	0.079	0.999	1.000	0.941	0.990	0.318	0.999	1.000	0.867
Cdl L	1.000	1.000	0.761	0.994	0.999	0.714	0.633	0.761	0.990	0.768
Cdl R†	0.851	0.861	1.000	0.999	0.999	0.921	0.929	1.000	1.000	1.000

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.85c - Results of multiple comparisons (Tukey HSD) for age groups, both sexes

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
Mt	1.000	0.315	0.998	1.000	0.981	0.868	*0.047	0.813	0.996	0.981
Sg	0.617	**0.009	0.419	1.000	0.993	0.251	**0.001	0.116	0.941	0.993
G	0.100	**0.002	0.268	0.997	0.978	*0.010	***0.000	*0.035	0.801	0.978
N	0.372	0.188	0.377	0.995	0.999	0.600	0.369	0.625	1.000	0.999
Mn	0.613	0.284	0.614	1.000	0.669	1.000	0.995	1.000	0.698	0.669
Rhi	0.052	0.060	0.663	0.977	0.991	**0.007	**0.008	0.248	0.724	0.991
Ss	**0.004	*0.020	*0.042	0.381	0.624	0.281	0.639	0.832	1.000	0.624
Mp†	**0.001	0.157	0.271	0.475	0.981	0.003	0.436	0.647	0.852	0.981
Pr	**0.001	0.133	0.589	1.000	1.000	**0.001	0.151	0.627	1.000	1.000
Ids	**0.002	0.260	0.202	0.933	0.964	0.113	0.922	0.884	1.000	0.964
Nlr L	0.115	0.828	0.574	0.790	0.999	0.266	0.968	0.833	0.954	0.999
Nlr R	*0.020	0.567	0.493	0.560	1.000	*0.047	0.771	0.708	0.766	1.000
Nmf L	0.610	1.000	0.999	0.958	0.950	0.125	0.922	0.735	1.000	0.950
Nmf R	1.000	0.790	0.982	0.637	0.625	0.430	0.999	0.905	1.000	0.625
Mf L†	0.090	0.864	0.836	1.000	0.947	**0.008	0.249	0.261	0.871	0.947
Mf R	0.370	0.998	0.998	1.000	0.850	*0.020	0.527	0.496	0.802	0.850
Mnm L†	0.991	0.471	0.877	0.673	0.997	0.842	0.131	0.510	0.288	0.997
Mnm R†	0.992	0.778	1.000	0.988	0.242	0.367	***0.000	0.064	*0.011	0.242
Nm L†	1.000	0.848	1.000	1.000	0.997	0.999	0.987	0.944	0.996	0.997
Nm R†	0.868	0.305	0.840	0.992	0.835	1.000	0.969	1.000	0.961	0.835
Al L	0.798	0.920	1.000	0.998	0.597	*0.042	0.073	0.676	0.760	0.597
Al R	0.427	0.241	1.000	1.000	0.592	**0.006	**0.001	0.572	0.371	0.592

Table B.85c continued

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
Lno L†	0.999	0.982	0.935	1.000	0.994	1.000	0.729	0.999	0.999	0.994
Lno R	0.982	1.000	0.920	0.932	0.977	1.000	0.953	1.000	1.000	0.977
Cf L	0.302	0.528	0.470	0.315	0.280	1.000	0.992	0.992	1.000	0.280
Cf R†	0.991	0.973	1.000	0.996	0.959	0.473	1.000	0.957	0.636	0.959
Sc L†	*0.037	0.434	0.663	0.998	0.999	*0.037	0.574	0.820	1.000	0.999
Sc R†	*0.013	0.385	0.524	0.986	1.000	*0.012	0.494	0.654	0.999	1.000
Fe L†	0.795	0.238	0.972	0.996	0.986	0.197	**0.008	0.454	0.692	0.986
Fe R†	0.998	0.727	0.995	1.000	0.891	0.613	0.088	0.493	0.936	0.891
Lf L	0.888	0.056	0.980	0.998	0.930	0.302	**0.002	0.468	0.990	0.930
Lf R	0.762	0.090	0.887	1.000	0.932	0.184	**0.003	0.257	0.834	0.932
So L†	0.077	**0.008	0.883	1.000	0.707	***0.000	***0.000	*0.048	0.496	0.707
So R	*0.012	***0.000	0.797	0.996	0.496	***0.000	***0.000	*0.015	0.145	0.496
Os L†	0.052	0.204	0.651	0.764	0.993	0.076	0.334	0.882	0.951	0.993
Os R†	0.118	0.369	0.862	0.940	0.995	**0.003	0.027	0.304	0.449	0.995
Or L†	0.244	*0.020	0.740	0.989	0.966	**0.008	***0.000	0.135	0.560	0.966
Or R†	0.323	*0.011	0.934	1.000	0.763	**0.001	***0.000	0.078	0.408	0.763
Sor L†	0.779	0.548	1.000	0.983	0.813	0.065	*0.024	0.730	0.975	0.813
Sor R†	0.736	0.245	1.000	1.000	0.957	0.136	*0.010	0.769	0.832	0.957
Smc L†	**0.001	**0.004	0.940	0.949	0.978	0.107	0.231	1.000	1.000	0.978
Smc R†	**0.002	***0.000	0.830	1.000	0.998	*0.016	**0.003	0.982	1.000	0.998
Ecm L†	**0.005	**0.003	0.698	0.764	0.985	0.087	0.065	0.990	0.995	0.985
Ecm R†	**0.002	**0.001	0.775	0.931	0.992	*0.017	*0.011	0.599	0.761	0.992

Table B.85c continued

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
Ft L	0.999	0.495	1.000	1.000	0.996	0.940	0.184	0.983	0.973	0.996
Ft R†	0.997	0.245	0.999	0.998	0.994	0.862	*0.046	0.917	0.871	0.994
Fmt L	0.914	0.967	0.995	0.995	1.000	0.804	0.895	0.969	1.000	1.000
Fmt R†	0.524	0.172	0.986	0.999	1.000	0.440	0.131	0.967	0.997	1.000
Fmo L†	*0.014	*0.015	0.056	0.425	1.000	*0.029	*0.031	0.101	0.568	1.000
Fmo R	0.285	**0.003	0.359	0.896	0.993	0.075	***0.000	0.091	0.533	0.993
Ec L†	**0.001	**0.001	*0.028	0.879	0.696	***0.000	***0.000	***0.000	0.061	0.696
Ec R†	*0.027	*0.013	0.559	1.000	0.221	***0.000	***0.000	***0.000	0.050	0.221
Mz L	0.062	*0.043	0.998	0.996	1.000	*0.035	*0.022	0.989	0.983	1.000
Mz R	0.062	*0.023	0.982	1.000	1.000	0.097	*0.039	0.997	1.000	1.000
Zm L	0.912	*0.015	0.987	1.000	0.919	1.000	0.216	0.997	0.842	0.919
Zm R	0.670	***0.000	0.876	0.954	0.129	0.903	0.557	0.558	0.433	0.129
Ol L†	0.923	0.707	0.956	0.976	1.000	0.946	0.769	0.948	0.985	1.000
Ol R†	0.738	0.183	0.999	1.000	0.998	0.923	0.322	0.951	1.000	0.998
Ju L	0.478	0.119	0.992	0.997	0.979	0.901	0.477	1.000	0.999	0.979
Ju R	0.324	**0.003	0.968	0.991	0.913	0.918	0.081	0.999	0.995	0.913
Zy L	0.688	0.352	0.976	1.000	0.996	0.941	0.716	0.765	0.981	0.996
Zy R	0.812	*0.048	0.997	0.908	1.000	0.727	*0.035	1.000	0.963	1.000
Sgl L†	1.000	0.987	0.899	0.233	0.218	0.192	**0.008	0.536	1.000	0.218
Sgl R	0.990	0.377	1.000	1.000	0.903	0.528	*0.033	0.941	0.867	0.903
Cdl L	0.984	0.972	0.994	0.990	0.974	1.000	1.000	0.999	0.768	0.974
Cdl R†	0.986	0.989	0.999	1.000	1.000	0.933	0.940	0.999	1.000	1.000

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.86a - Results of multiple comparisons (Tukey HSD) for age groups, males

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
Mt	0.665	0.991	0.705	0.953	0.993	0.665	0.351	0.110	0.428	0.661
Sg	0.994	0.969	0.741	0.236	0.658	0.994	0.761	0.393	0.085	0.344
G	0.962	0.977	0.908	0.500	0.940	0.962	0.607	0.423	0.139	0.538
N	1.000	0.992	0.599	0.602	0.972	1.000	0.981	0.526	0.538	0.951
Mn	1.000	0.674	0.200	0.387	1.000	1.000	0.803	0.306	0.506	1.000
Rht	0.950	0.435	0.383	0.159	**0.002	0.950	0.793	0.720	0.365	**0.006
Sst	0.845	0.997	0.987	0.228	0.474	0.845	0.946	0.525	*0.033	0.131
Mp	0.959	1.000	1.000	0.236	0.160	0.959	0.972	0.852	*0.044	*0.022
Pr	1.000	0.916	0.080	0.605	*0.036	1.000	0.830	*0.049	0.499	*0.022
Ids	0.989	0.785	*0.049	0.350	*0.035	0.989	0.987	0.209	0.663	0.125
Nlr L	1.000	0.932	0.999	0.712	0.212	1.000	0.954	1.000	0.753	0.253
Nlr R	1.000	0.972	0.910	0.289	0.074	1.000	0.992	0.961	0.373	0.113
Nmf L	0.935	1.000	0.546	0.943	0.255	0.935	0.981	0.982	1.000	0.799
Nmf R	0.968	1.000	0.986	0.946	0.640	0.968	0.986	1.000	0.601	0.970
Mf L	0.859	0.945	0.330	0.784	**0.002	0.859	1.000	0.963	1.000	0.073
Mf R	1.000	1.000	0.896	0.980	*0.022	1.000	1.000	0.975	0.998	0.051
Mnm L	0.999	0.817	1.000	0.322	0.924	0.999	0.577	0.989	0.168	0.768
Mnm R	0.702	1.000	0.979	0.924	0.416	0.702	0.603	0.973	0.222	*0.021
Nm L	1.000	0.998	0.971	0.974	0.820	1.000	1.000	0.996	0.996	0.680
Nm R	1.000	1.000	0.886	0.322	0.627	1.000	0.998	0.797	0.242	0.750
Al L†	1.000	0.481	0.510	0.939	0.862	1.000	0.727	0.727	0.991	0.949
Al R	0.968	0.445	0.540	0.387	0.841	0.968	0.092	0.132	0.098	0.390

Table B.86a continued

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
Lno L	1.000	0.611	1.000	0.999	1.000	1.000	0.470	0.999	1.000	1.000
Lno R	1.000	1.000	1.000	0.891	0.965	1.000	1.000	1.000	0.862	0.948
Cf L	0.999	1.000	1.000	0.343	0.999	0.999	1.000	0.995	0.199	1.000
Cf R†	1.000	1.000	0.955	0.999	0.999	1.000	1.000	0.941	1.000	1.000
Sc L	0.844	0.999	0.948	0.906	0.583	0.844	0.944	0.312	0.342	0.089
Sc R	0.950	1.000	0.947	0.667	0.574	0.950	0.904	0.483	0.233	0.158
Fe L	0.999	0.723	0.378	0.285	0.175	0.999	0.915	0.635	0.488	0.349
Fe R	1.000	0.980	0.715	0.825	0.553	1.000	0.950	0.612	0.747	0.457
Lf L	1.000	0.474	0.264	0.208	0.335	1.000	0.396	0.209	0.167	0.275
Lf R	0.997	0.727	0.315	0.321	0.329	0.997	0.951	0.641	0.599	0.626
So L	1.000	0.097	0.079	0.168	**0.001	1.000	0.173	0.144	0.258	**0.001
So R	1.000	0.067	0.179	0.076	***0.000	1.000	0.055	0.151	0.063	***0.000
Os L	0.598	0.112	0.214	***0.000	0.999	0.598	0.952	0.992	*0.025	0.877
Os R	0.360	0.101	0.164	***0.000	0.387	0.360	0.995	0.999	0.108	1.000
Or L	0.905	0.820	0.280	0.186	0.242	0.905	0.202	*0.022	*0.018	*0.023
Or R	0.792	0.650	0.166	0.330	0.089	0.792	0.056	**0.004	*0.023	**0.002
Sor L†	0.950	0.458	0.206	0.752	0.326	0.950	0.184	0.071	0.455	0.140
Sor R	0.999	0.600	0.669	0.563	0.450	0.999	0.342	0.405	0.343	0.244
Smc L	0.998	**0.006	0.098	0.080	0.815	0.998	*0.027	0.262	0.187	0.958
Smc R	0.992	*0.011	**0.002	***0.000	0.332	0.992	**0.002	***0.000	***0.000	0.116
Ecm L	0.999	*0.016	0.062	*0.030	0.590	0.999	*0.045	0.145	0.062	0.770
Ecm R	1.000	*0.014	**0.006	*0.016	**0.009	1.000	*0.013	**0.005	*0.015	**0.009

Table B.86a continued

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
Ft L	1.000	0.471	0.977	0.447	0.547	1.000	0.327	0.923	0.324	0.407
Ft R	0.949	0.838	0.999	0.360	0.396	0.949	0.289	0.784	0.071	0.074
Fmt L	0.860	0.492	0.336	0.182	0.887	0.860	0.994	0.965	0.779	1.000
Fmt R	0.996	0.354	0.690	0.086	0.390	0.996	0.699	0.939	0.238	0.703
Fmo L	0.973	0.722	0.740	0.051	0.179	0.973	0.250	0.266	**0.007	*0.031
Fmo R	0.573	0.892	0.811	0.439	0.616	0.573	0.068	*0.046	*0.016	*0.027
Ec L	1.000	0.390	**0.006	***0.000	***0.000	1.000	0.325	**0.004	***0.000	***0.000
Ec R	0.996	0.171	**0.001	***0.000	***0.000	0.996	0.444	**0.009	**0.001	***0.000
Mz L	0.999	**0.008	*0.039	0.190	0.069	0.999	*0.031	0.118	0.366	0.171
Mz R	0.991	*0.012	**0.001	0.178	0.091	0.991	0.081	**0.008	0.465	0.311
Zm L	0.826	0.267	0.204	0.896	0.953	0.826	*0.011	**0.007	0.274	0.341
Zm R	0.610	0.408	0.509	0.951	0.997	0.610	**0.007	*0.013	0.211	0.913
Ol L	1.000	**0.001	0.999	0.710	0.522	1.000	***0.000	0.996	0.663	0.472
Ol R	0.999	**0.002	0.439	0.476	0.882	0.999	**0.001	0.254	0.322	0.745
Ju L	0.998	0.210	0.349	0.685	0.992	0.998	0.083	0.159	0.463	0.932
Ju R	0.921	0.138	0.262	0.610	0.763	0.921	**0.009	*0.023	0.151	0.225
Zy L	1.000	***0.000	0.111	0.640	0.694	1.000	***0.000	0.073	0.538	0.586
Zy R	0.944	*0.014	0.538	0.361	0.961	0.944	**0.001	0.140	0.078	0.624
Sgl L	0.942	0.690	0.355	0.995	0.780	0.942	0.216	0.094	0.872	0.390
Sgl R	0.999	0.542	0.641	0.999	0.310	0.999	0.323	0.447	0.984	0.192
Cdl L	0.989	0.761	0.348	0.560	0.900	0.989	0.988	0.750	0.867	0.696
Cdl R	0.979	0.095	0.149	0.647	0.950	0.979	0.401	0.428	0.923	0.999

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.86b – Results of multiple comparisons (Tukey HSD) for age groups, males

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
Mt	0.991	0.351	0.944	0.998	1.000	0.705	0.110	0.944	1.000	0.997
Sg	0.969	0.761	0.990	0.605	0.962	0.741	0.393	0.990	0.895	1.000
G	0.977	0.607	1.000	0.854	1.000	0.908	0.423	1.000	0.948	1.000
N	0.992	0.981	0.895	0.867	1.000	0.599	0.526	0.895	1.000	0.981
Mn	0.674	0.803	0.955	0.983	0.680	0.200	0.306	0.955	1.000	0.227
Rht	0.435	0.793	1.000	0.971	0.384	0.383	0.720	1.000	0.993	0.589
Sst	0.997	0.946	0.852	0.077	0.265	0.987	0.525	0.852	0.583	0.784
Mp	1.000	0.972	0.998	0.171	0.106	1.000	0.852	0.998	0.362	0.265
Pr	0.916	0.830	0.467	0.960	0.228	0.080	*0.049	0.467	0.992	0.984
Ids	0.785	0.987	0.518	0.907	0.309	*0.049	0.209	0.518	0.999	0.985
Nlr L	0.932	0.954	0.993	0.981	0.669	0.999	1.000	0.993	0.868	0.371
Nlr R	0.972	0.992	1.000	0.638	0.278	0.910	0.961	1.000	0.772	0.421
Nmf L	1.000	0.981	0.684	0.982	0.349	0.546	0.982	0.684	0.994	0.985
Nmf R	1.000	0.986	0.995	0.890	0.705	0.986	1.000	0.995	0.661	0.928
Mf L	0.945	1.000	0.845	0.994	*0.024	0.330	0.963	0.845	0.998	0.312
Mf R	1.000	1.000	0.967	0.997	*0.036	0.896	0.975	0.967	1.000	0.211
Mnm L	0.817	0.577	0.913	0.913	1.000	1.000	0.989	0.913	0.431	0.972
Mnm R	1.000	0.603	0.957	0.940	0.433	0.979	0.973	0.957	0.578	0.109
Nm L	0.998	1.000	0.999	0.999	0.539	0.971	0.996	0.999	1.000	0.351
Nm R	1.000	0.998	0.942	0.392	0.463	0.886	0.797	0.942	0.863	0.099
Al L†	0.481	0.727	1.000	0.945	1.000	0.510	0.727	1.000	0.937	0.999
Al R	0.445	0.092	1.000	0.999	0.997	0.540	0.132	1.000	0.996	0.999

Table B.86b continued

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
Lno L	0.611	0.470	0.682	0.463	0.675	1.000	0.999	0.682	0.993	1.000
Lno R	1.000	1.000	1.000	0.776	0.895	1.000	1.000	1.000	0.756	0.879
Cf L	1.000	1.000	0.999	0.230	1.000	1.000	0.995	0.999	0.407	0.993
Cf R†	1.000	1.000	0.917	1.000	1.000	0.955	0.941	0.917	0.949	0.881
Sc L	0.999	0.944	0.804	0.764	0.362	0.948	0.312	0.804	1.000	0.962
Sc R	1.000	0.904	0.962	0.694	0.598	0.947	0.483	0.962	0.974	0.957
Fe L	0.723	0.915	0.992	0.933	0.866	0.378	0.635	0.992	0.997	0.990
Fe R	0.980	0.950	0.976	0.988	0.894	0.715	0.612	0.976	1.000	0.999
Lf L	0.474	0.396	0.999	0.970	0.998	0.264	0.209	0.999	0.998	1.000
Lf R	0.727	0.951	0.982	0.950	0.968	0.315	0.641	0.982	1.000	1.000
So L	0.097	0.173	1.000	1.000	0.400	0.079	0.144	1.000	1.000	0.467
So R	0.067	0.055	0.998	0.999	0.427	0.179	0.151	0.998	0.978	0.230
Os L	0.112	0.952	1.000	0.140	0.356	0.214	0.992	1.000	0.080	0.529
Os R	0.101	0.995	1.000	0.238	0.998	0.164	0.999	1.000	0.172	1.000
Or L	0.820	0.202	0.936	0.768	0.868	0.280	*0.022	0.936	0.995	1.000
Or R	0.650	0.056	0.942	0.974	0.765	0.166	**0.004	0.942	1.000	0.996
Sor L†	0.458	0.184	0.999	1.000	0.992	0.206	0.071	0.999	1.000	1.000
Sor R	0.600	0.342	1.000	1.000	0.999	0.669	0.405	1.000	0.999	0.997
Smc L	**0.006	*0.027	0.924	1.000	0.365	0.098	0.262	0.924	0.991	0.878
Smc R	*0.011	**0.002	0.995	0.463	0.901	**0.002	***0.000	0.995	0.742	0.652
Ecm L	*0.016	*0.045	0.999	0.982	0.951	0.062	0.145	0.999	0.930	0.992
Ecm R	*0.014	*0.013	0.997	0.947	0.856	**0.006	**0.005	0.997	0.996	0.969

Table B.86b continued

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
Ft L	0.471	0.327	0.883	1.000	1.000	0.977	0.923	0.883	0.819	0.903
Ft R	0.838	0.289	0.961	0.920	0.953	0.999	0.784	0.961	0.543	0.594
Fmt L	0.492	0.994	1.000	0.953	0.995	0.336	0.965	1.000	0.989	0.972
Fmt R	0.354	0.699	0.995	0.912	1.000	0.690	0.939	0.995	0.689	0.990
Fmo L	0.722	0.250	1.000	0.511	0.871	0.740	0.266	1.000	0.506	0.866
Fmo R	0.892	0.068	1.000	0.928	0.989	0.811	*0.046	1.000	0.970	0.998
Ec L	0.390	0.325	0.497	*0.015	**0.005	**0.006	**0.004	0.497	0.469	0.315
Ec R	0.171	0.444	0.527	0.093	*0.012	**0.001	**0.009	0.527	0.841	0.462
Mz L	**0.008	*0.031	0.995	0.985	0.999	0.039	0.118	0.995	1.000	1.000
Mz R	*0.012	0.081	0.952	0.996	0.999	**0.001	**0.008	0.952	0.812	0.850
Zm L	0.267	*0.011	1.000	0.969	0.878	0.204	**0.007	1.000	0.940	0.814
Zm R	0.408	**0.007	1.000	0.974	0.215	0.509	*0.013	1.000	0.989	0.285
Ol L	**0.001	***0.000	**0.004	0.776	0.782	0.999	0.996	**0.004	0.861	0.727
Ol R	**0.002	**0.001	0.430	0.901	0.385	0.439	0.254	0.430	0.999	0.999
Ju L	0.210	0.083	1.000	0.999	0.738	0.349	0.159	1.000	1.000	0.859
Ju R	0.138	**0.009	1.000	0.996	0.945	0.262	*0.023	1.000	1.000	0.990
Zy L	***0.000	***0.000	0.651	0.424	0.230	0.111	0.073	0.651	0.993	0.966
Zy R	*0.014	**0.001	0.799	0.954	0.419	0.538	0.140	0.799	1.000	0.985
Sgl L	0.690	0.216	0.966	0.999	1.000	0.355	0.094	0.966	0.947	0.999
Sgl R	0.542	0.323	1.000	0.958	0.947	0.641	0.447	1.000	0.949	0.985
Cdl L	0.761	0.988	0.961	0.986	0.376	0.348	0.750	0.961	1.000	0.155
Cdl R	0.095	0.401	0.999	0.998	0.940	0.149	0.428	0.999	0.985	0.886

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.86c – Results of multiple comparisons (Tukey HSD) for age groups, males

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
Mt	0.953	0.428	0.998	1.000	1.000	0.993	0.661	1.000	0.997	1.000
Sg	0.236	0.085	0.605	0.895	0.975	0.658	0.344	0.962	1.000	0.975
G	0.500	0.139	0.854	0.948	0.960	0.940	0.538	1.000	1.000	0.960
N	0.602	0.538	0.867	1.000	0.962	0.972	0.951	1.000	0.981	0.962
Mn	0.387	0.506	0.983	1.000	0.398	1.000	1.000	0.680	0.227	0.398
Rht	0.159	0.365	0.971	0.993	0.934	*** 0.000	** 0.006	0.384	0.589	0.934
Sst	0.228	*0.033	0.077	0.583	1.000	0.474	0.131	0.265	0.784	1.000
Mp	0.236	*0.044	0.171	0.362	1.000	0.160	*0.022	0.106	0.265	1.000
Pr	0.605	0.499	0.960	0.992	0.882	*0.036	*0.022	0.228	0.984	0.882
Ids	0.350	0.663	0.907	0.999	0.953	*0.035	0.125	0.309	0.985	0.953
Nlr L	0.712	0.753	0.981	0.868	0.993	0.212	0.253	0.669	0.371	0.993
Nlr R	0.289	0.373	0.638	0.772	0.999	0.074	0.113	0.278	0.421	0.999
Nmf L	0.943	1.000	0.982	0.994	0.888	0.255	0.799	0.349	0.985	0.888
Nmf R	0.946	0.601	0.890	0.661	0.227	0.640	0.970	0.705	0.928	0.227
Mf L	0.784	1.000	0.994	0.998	0.237	** 0.002	0.073	*0.024	0.312	0.237
Mf R	0.980	0.998	0.997	1.000	0.257	*0.022	0.051	*0.036	0.211	0.257
Mnm L	0.322	0.168	0.913	0.431	0.908	0.924	0.768	1.000	0.972	0.908
Mnm R	0.924	0.222	0.940	0.578	0.969	0.416	*0.021	0.433	0.109	0.969
Nm L	0.974	0.996	0.999	1.000	0.454	0.820	0.680	0.539	0.351	0.454
Nm R	0.322	0.242	0.392	0.863	*0.013	0.627	0.750	0.463	0.099	*0.013
Al L†	0.939	0.991	0.945	0.937	0.998	0.862	0.949	1.000	0.999	0.998
Al R	0.387	0.098	0.999	0.996	0.972	0.841	0.390	0.997	0.999	0.972

Table B.86c continued

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
Lno L	0.999	1.000	0.463	0.993	0.999	1.000	1.000	0.675	1.000	0.999
Lno R	0.891	0.862	0.776	0.756	1.000	0.965	0.948	0.895	0.879	1.000
Cf L	0.343	0.199	0.230	0.407	0.234	0.999	1.000	1.000	0.993	0.234
Cf R†	0.999	1.000	1.000	0.949	1.000	0.999	1.000	1.000	0.881	1.000
Sc L	0.906	0.342	0.764	1.000	0.998	0.583	0.089	0.362	0.962	0.998
Sc R	0.667	0.233	0.694	0.974	1.000	0.574	0.158	0.598	0.957	1.000
Fe L	0.285	0.488	0.933	0.997	1.000	0.175	0.349	0.866	0.990	1.000
Fe R	0.825	0.747	0.988	1.000	0.999	0.553	0.457	0.894	0.999	0.999
Lf L	0.208	0.167	0.970	0.998	0.999	0.335	0.275	0.998	1.000	0.999
Lf R	0.321	0.599	0.950	1.000	1.000	0.329	0.626	0.968	1.000	1.000
So L	0.168	0.258	1.000	1.000	0.657	**0.001	**0.001	0.400	0.467	0.657
So R	0.076	0.063	0.999	0.978	0.802	***0.000	***0.000	0.427	0.230	0.802
Os L	***0.000	*0.025	0.140	0.080	**0.001	0.999	0.877	0.356	0.529	**0.001
Os R	***0.000	0.108	0.238	0.172	0.156	0.387	1.000	0.998	1.000	0.156
Or L	0.186	*0.018	0.768	0.995	1.000	0.242	*0.023	0.868	1.000	1.000
Or R	0.330	*0.023	0.974	1.000	0.997	0.089	**0.002	0.765	0.996	0.997
Sor L†	0.752	0.455	1.000	1.000	0.997	0.326	0.140	0.992	1.000	0.997
Sor R	0.563	0.343	1.000	0.999	1.000	0.450	0.244	0.999	0.997	1.000
Smc L	0.080	0.187	1.000	0.991	0.684	0.815	0.958	0.365	0.878	0.684
Smc R	***0.000	***0.000	0.463	0.742	0.115	0.332	0.116	0.901	0.652	0.115
Ecm L	*0.030	0.062	0.982	0.930	0.786	0.590	0.770	0.951	0.992	0.786
Ecm R	*0.016	*0.015	0.947	0.996	1.000	**0.009	**0.009	0.856	0.969	1.000

Table B.86c continued

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
Ft L	0.447	0.324	1.000	0.819	1.000	0.547	0.407	1.000	0.903	1.000
Ft R	0.360	0.071	0.920	0.543	1.000	0.396	0.074	0.953	0.594	1.000
Fmt L	0.182	0.779	0.953	0.989	0.808	0.887	1.000	0.995	0.972	0.808
Fmt R	0.086	0.238	0.912	0.689	0.964	0.390	0.703	1.000	0.990	0.964
Fmo L	0.051	**0.007	0.511	0.506	0.989	0.179	*0.031	0.871	0.866	0.989
Fmo R	0.439	*0.016	0.928	0.970	0.999	0.616	*0.027	0.989	0.998	0.999
Ec L	***0.000	***0.000	*0.015	0.469	1.000	***0.000	***0.000	**0.005	0.315	1.000
Ec R	***0.000	**0.001	0.093	0.841	0.997	***0.000	***0.000	*0.012	0.462	0.997
Mz L	0.190	0.366	0.985	1.000	1.000	0.069	0.171	0.999	1.000	1.000
Mz R	0.178	0.465	0.996	0.812	1.000	0.091	0.311	0.999	0.850	1.000
Zm L	0.896	0.274	0.969	0.940	1.000	0.953	0.341	0.878	0.814	1.000
Zm R	0.951	0.211	0.974	0.989	0.805	0.997	0.913	0.215	0.285	0.805
Ol L	0.710	0.663	0.776	0.861	1.000	0.522	0.472	0.782	0.727	1.000
Ol R	0.476	0.322	0.901	0.999	0.986	0.882	0.745	0.385	0.999	0.986
Ju L	0.685	0.463	0.999	1.000	0.959	0.992	0.932	0.738	0.859	0.959
Ju R	0.610	0.151	0.996	1.000	1.000	0.763	0.225	0.945	0.990	1.000
Zy L	0.640	0.538	0.424	0.993	1.000	0.694	0.586	0.230	0.966	1.000
Zy R	0.361	0.078	0.954	1.000	0.933	0.961	0.624	0.419	0.985	0.933
Sgl L	0.995	0.872	0.999	0.947	0.995	0.780	0.390	1.000	0.999	0.995
Sgl R	0.999	0.984	0.958	0.949	0.711	0.310	0.192	0.947	0.985	0.711
Cdl L	0.560	0.867	0.986	1.000	0.256	0.900	0.696	0.376	0.155	0.256
Cdl R	0.647	0.923	0.998	0.985	0.998	0.950	0.999	0.940	0.886	0.998

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.87a - Results of multiple comparisons (Tukey HSD) for age groups, females

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
M	0.942	1.000	1.000	0.998	0.628	0.942	0.883	0.855	0.663	0.077
Sg†	0.555	0.999	0.878	0.960	0.292	0.555	0.526	**0.005	0.059	***0.000
G	0.999	0.977	0.082	0.160	**0.001	0.999	0.782	**0.007	*0.025	***0.000
N	0.958	0.920	0.371	*0.033	0.055	0.958	1.000	0.804	0.128	0.197
Mn	1.000	0.996	0.991	0.704	0.984	1.000	1.000	0.913	0.388	0.897
Rhi	1.000	0.774	0.305	0.063	0.222	1.000	0.848	0.322	0.056	0.237
Ss	0.560	0.608	0.201	*0.038	0.981	0.560	1.000	0.981	0.602	0.940
Mp	0.087	0.069	*0.036	**0.008	0.068	0.087	1.000	0.999	0.877	0.999
Pr	0.088	**0.008	**0.001	**0.001	*0.012	0.088	0.942	0.645	0.289	0.769
Ids	0.387	0.693	0.348	*0.011	0.934	0.387	0.995	1.000	0.363	0.999
Nlr L	0.809	1.000	0.779	0.663	0.802	0.809	0.595	1.000	0.998	1.000
Nlr R	0.374	0.753	0.721	0.265	0.211	0.374	0.976	0.989	0.997	0.979
Nmf L	0.990	0.981	0.551	1.000	0.920	0.990	1.000	0.835	0.997	0.997
Nmf R	0.963	0.999	0.611	1.000	0.986	0.963	0.995	0.955	0.932	1.000
Mf L	0.859	0.826	0.447	0.392	0.857	0.859	1.000	0.972	0.940	1.000
Mf R	0.574	0.515	0.473	0.677	0.873	0.574	1.000	1.000	1.000	0.997
Mnm L	0.695	0.423	0.521	0.952	0.993	0.695	0.998	1.000	0.992	0.276
Mnm R	0.608	0.935	0.774	0.709	0.890	0.608	0.964	1.000	1.000	0.052
Nm L†	0.637	0.876	1.000	1.000	0.964	0.637	0.054	0.667	0.694	0.427
Nm R†	0.780	0.995	0.999	0.972	0.688	0.780	0.455	0.694	0.643	0.241
Al L†	0.913	0.551	0.508	0.456	*0.036	0.913	0.961	0.959	0.879	0.123
Al R	0.922	0.247	0.571	0.486	***0.000	0.922	0.755	0.976	0.938	**0.002

Table B.87a continued

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
Lno L	0.922	1.000	1.000	0.998	0.968	0.922	0.828	0.789	0.643	0.383
Lno R	0.997	0.910	0.977	0.919	0.569	0.997	0.501	0.729	0.575	0.180
Cf L†	0.997	1.000	0.998	0.993	1.000	0.997	1.000	0.917	1.000	0.972
Cf R	0.649	0.993	0.997	1.000	0.604	0.649	0.851	0.821	0.477	1.000
Sc L	0.074	*0.018	**0.005	**0.003	*0.038	0.074	0.995	0.918	0.577	0.966
Sc R	0.059	0.061	**0.002	**0.007	**0.004	0.059	1.000	0.808	0.873	0.715
Fe L†	0.642	1.000	1.000	0.992	0.703	0.642	0.223	0.483	0.400	**0.008
Fe R	0.979	1.000	1.000	1.000	0.832	0.979	0.995	0.930	0.935	0.280
Lf L	0.257	0.977	0.999	1.000	0.810	0.257	0.495	*0.040	0.242	**0.004
Lf R†	0.284	0.998	1.000	0.998	0.661	0.284	0.184	*0.039	0.106	**0.005
So L	0.556	1.000	0.557	0.509	0.180	0.556	0.216	**0.003	0.003	***0.000
So R	0.988	0.788	0.124	0.101	**0.007	0.988	0.214	**0.005	0.005	***0.000
Os L	0.999	0.906	0.784	0.460	**0.003	0.999	0.979	0.906	0.586	**0.002
Os R	1.000	0.938	0.788	0.778	**0.002	1.000	0.852	0.618	0.624	***0.000
Or L	0.975	1.000	1.000	0.983	0.309	0.975	0.982	0.904	0.600	*0.025
Or R†	0.953	1.000	0.989	0.949	0.113	0.953	0.743	0.371	0.465	**0.001
Sor L	1.000	0.998	0.924	0.999	0.541	1.000	0.997	0.867	0.998	0.395
Sor R	0.977	1.000	0.998	0.998	0.636	0.977	0.869	0.769	0.787	0.126
Smc L†	0.988	0.813	0.214	0.050	0.133	0.988	0.965	0.332	0.071	0.213
Smc R†	1.000	0.522	*0.031	0.341	0.051	1.000	0.451	*0.017	0.291	*0.042
Ecm L	0.989	0.977	0.836	0.433	0.273	0.989	0.613	0.306	0.122	0.069
Ecm R	1.000	0.326	0.371	*0.038	*0.040	1.000	0.106	0.150	0.090	*0.014

Table B.87a continued

Landmark	<24/25-34	<24/35-44	<24/45-54	<24/55-64	<24/65-84	25-34/<24	25-34/35-44	25-34/45-54	25-34/55-64	25-34/65-84
Ft L	0.664	0.950	1.000	0.984	1.000	0.664	0.970	0.707	0.953	0.685
Ft R	0.666	0.994	1.000	0.995	1.000	0.666	0.852	0.560	0.909	0.551
Fmt L	0.996	0.995	0.994	1.000	0.957	0.996	1.000	0.830	1.000	0.673
Fmt R	0.826	1.000	0.923	0.998	0.890	0.826	0.593	0.117	0.459	0.129
Fmo L	0.875	1.000	0.913	0.248	0.205	0.875	0.636	1.000	0.804	0.734
Fmo R	0.998	1.000	0.977	0.646	0.138	0.998	1.000	0.765	0.250	* 0.018
Ec L	0.999	1.000	0.875	0.699	* 0.016	0.999	1.000	0.544	0.340	** 0.001
Ec R	0.758	1.000	1.000	1.000	0.116	0.758	0.647	0.418	0.663	*** 0.000
Mz L	0.623	0.982	1.000	9.999	0.984	0.623	0.889	0.629	0.269	0.155
Mz R	0.332	0.961	0.994	0.999	1.000	0.332	0.680	0.524	0.105	0.144
Zm L	0.134	0.415	0.906	1.000	0.784	0.134	0.965	0.531	0.135	0.846
Zm R	0.092	0.787	0.943	0.984	0.792	0.092	0.543	0.342	** 0.005	0.748
Ol L	1.000	0.959	0.938	0.740	0.998	1.000	0.970	0.951	0.748	1.000
Ol R†	0.775	0.994	0.680	0.931	0.921	0.775	0.414	* 0.033	0.466	0.357
Ju L	0.892	0.994	1.000	0.997	0.999	0.892	0.987	0.907	0.568	0.643
Ju R	0.461	0.980	1.000	0.986	1.000	0.461	0.761	0.437	0.087	0.625
Zy L	0.953	0.998	1.000	1.000	0.999	0.953	0.993	0.919	0.846	0.995
Zy R	0.634	0.999	0.767	1.000	0.966	0.634	0.668	* 0.013	0.613	0.092
Sgl L	1.000	0.915	0.106	0.996	0.155	1.000	0.895	0.053	0.997	0.115
Sgl R†	0.917	0.978	0.985	0.863	0.580	0.917	0.147	0.175	0.086	** 0.001
Cdl L	1.000	1.000	0.847	0.992	0.929	1.000	1.000	0.775	0.991	0.917
Cdl R	0.998	1.000	1.000	1.000	0.994	0.998	1.000	0.997	0.995	0.892

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.87b – Results of multiple comparisons (Tukey HSD) for age groups, females

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
M	1.000	0.883	1.000	0.995	0.447	1.000	0.855	1.000	0.998	0.542
Sg†	0.999	0.526	0.408	0.702	*0.026	0.878	**0.005	0.408	1.000	0.785
G	0.977	0.782	0.165	0.322	**0.001	0.082	**0.007	0.165	1.000	0.407
N	0.920	1.000	0.836	0.129	0.204	0.371	0.804	0.836	0.760	0.851
Mn	0.996	1.000	0.772	0.217	0.767	0.991	0.913	0.772	0.918	1.000
Rhi	0.774	0.848	0.934	0.439	0.821	0.305	0.322	0.934	0.935	0.999
Ss	0.608	1.000	0.943	0.458	0.964	0.201	0.981	0.943	0.929	0.618
Mp	0.069	1.000	0.999	0.849	0.999	*0.036	0.999	0.999	0.965	1.000
Pr	**0.008	0.942	0.988	0.743	0.988	**0.001	0.645	0.988	0.961	1.000
Ids	0.693	0.995	0.984	0.168	1.000	0.348	1.000	0.984	0.503	0.998
Nlr L	1.000	0.595	0.551	0.461	0.659	0.779	1.000	0.551	0.999	1.000
Nlr R	0.753	0.976	1.000	0.876	0.776	0.721	0.989	1.000	0.916	0.830
Nmf L	0.981	1.000	0.839	0.994	0.998	0.551	0.835	0.839	0.593	0.987
Nmf R	0.999	0.995	0.702	0.996	0.999	0.611	0.955	0.702	0.478	0.939
Mf L	0.826	1.000	0.970	0.936	1.000	0.447	0.972	0.970	1.000	0.988
Mf R	0.515	1.000	1.000	1.000	0.995	0.473	1.000	1.000	1.000	0.989
Mnm L	0.423	0.998	1.000	0.912	0.104	0.521	1.000	1.000	0.952	0.158
Mnm R	0.935	0.964	0.996	0.986	0.221	0.774	1.000	0.996	1.000	0.104
Nm L†	0.876	0.054	0.830	0.997	1.000	1.000	0.667	0.830	0.999	0.951
Nm R†	0.995	0.455	1.000	0.997	0.850	0.999	0.694	1.000	0.998	0.897
Al L†	0.551	0.961	1.000	0.999	0.385	0.508	0.959	1.000	0.995	0.279
Al R	0.247	0.755	0.991	1.000	0.064	0.571	0.976	0.991	1.000	*0.018

Table B.87b continued

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
Lno L	1.000	0.828	1.000	0.998	0.945	1.000	0.789	1.000	0.999	0.972
Lno R	0.910	0.501	1.000	1.000	0.959	0.977	0.729	1.000	0.999	0.884
Cf L†	1.000	1.000	0.985	0.999	0.996	0.998	0.917	0.985	0.925	1.000
Cf R	0.993	0.851	1.000	0.969	0.805	0.997	0.821	1.000	0.985	0.775
Sc L	*0.018	0.995	0.997	0.830	0.999	**0.005	0.918	0.997	0.963	1.000
Sc R	0.061	1.000	0.734	0.824	0.651	**0.002	0.808	0.734	1.000	0.999
Fe L†	1.000	0.223	0.999	0.995	0.603	1.000	0.483	0.999	0.971	0.399
Fe R	1.000	0.995	0.997	0.996	0.505	1.000	0.930	0.997	1.000	0.804
Lf L	0.977	0.495	0.759	0.988	0.218	0.999	*0.040	0.758	0.991	0.921
Lf R†	0.998	0.184	0.979	0.934	0.270	1.000	*0.039	0.979	0.999	0.595
So L	1.000	0.216	0.503	0.462	0.123	0.557	**0.003	0.503	1.000	0.947
So R	0.788	0.214	0.647	0.553	0.067	0.124	**0.005	0.647	1.000	0.755
Os L	0.906	0.979	0.999	0.912	*0.013	0.784	0.906	0.999	0.986	*0.044
Os R	0.938	0.852	0.997	0.995	**0.005	0.788	0.618	0.997	1.000	*0.025
Or L	1.000	0.982	0.999	0.913	0.098	1.000	0.904	0.999	0.988	0.240
Or R†	1.000	0.743	0.999	0.978	0.091	0.989	0.371	0.999	0.998	0.161
Sor L	0.998	0.997	0.980	1.000	0.620	0.924	0.867	0.980	0.989	0.947
Sor R	1.000	0.869	1.000	1.000	0.607	0.998	0.769	1.000	1.000	0.773
Smc L†	0.813	0.965	0.913	0.499	0.562	0.214	0.332	0.913	0.960	0.922
Smc R†	0.522	0.451	0.919	0.997	0.597	*0.031	*0.017	0.919	0.999	0.922
Ecm L	0.977	0.613	0.993	0.723	0.510	0.836	0.306	0.993	0.926	0.766
Ecm R	0.326	0.106	1.000	0.701	0.537	0.371	0.150	1.000	0.771	0.597

Table B.87b continued

Landmark	35-44/<24	35-44/25-34	35-44/45-54	35-44/55-64	35-44/65-84	45-54/<24	45-54/25-34	45-54/35-44	45-54/55-64	45-54/65-84
Ft L	0.950	0.970	0.980	1.000	0.966	1.000	0.707	0.980	0.997	1.000
Ft R	0.994	0.852	0.993	1.000	0.985	1.000	0.560	0.993	0.995	1.000
Fmt L	0.995	1.000	0.786	1.000	0.619	0.994	0.830	0.786	0.932	0.999
Fmt R	1.000	0.593	0.901	0.999	0.867	0.923	0.117	0.901	0.992	1.000
Fmo L	1.000	0.636	0.707	0.065	0.052	0.913	1.000	0.707	0.722	0.644
Fmo R	1.000	1.000	0.862	0.322	*0.024	0.977	0.765	0.862	0.932	0.325
Ec L	1.000	1.000	0.605	0.384	**0.001	0.875	0.544	0.605	0.998	0.118
Ec R	1.000	0.647	0.998	1.000	*0.029	1.000	0.418	0.998	1.000	0.100
Mz L	0.982	0.889	0.994	0.823	0.640	1.000	0.629	0.994	0.982	0.912
Mz R	0.961	0.680	1.000	0.775	0.833	0.994	0.524	1.000	0.916	0.945
Zm L	0.415	0.965	0.927	0.447	0.997	0.906	0.531	0.927	0.945	0.999
Zm R	0.787	0.543	0.998	0.232	1.000	0.943	0.342	0.998	0.490	0.996
Ol L	0.959	0.970	1.000	0.977	1.000	0.938	0.951	1.000	0.988	1.000
Ol R†	0.994	0.414	0.954	0.994	0.995	0.680	*0.033	0.954	1.000	1.000
Ju L	0.994	0.987	0.998	0.865	0.911	1.000	0.907	0.998	0.977	0.989
Ju R	0.980	0.761	0.991	0.630	0.998	1.000	0.437	0.991	0.927	1.000
Zy L	0.998	0.993	0.996	0.977	1.000	1.000	0.919	0.996	1.000	0.999
Zy R	0.999	0.668	0.266	1.000	0.701	0.767	*0.013	0.266	0.544	0.994
Sgl L	0.915	0.895	0.315	0.997	0.405	0.106	0.053	0.315	0.264	0.999
Sgl R†	0.978	0.147	1.000	0.990	0.782	0.985	0.175	1.000	0.983	0.719
Cdl L	1.000	1.000	0.750	0.992	0.918	0.847	0.775	0.750	0.989	1.000
Cdl R	1.000	1.000	1.000	0.999	0.930	1.000	0.997	1.000	1.000	0.988

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.87c – Results of multiple comparisons (Tukey HSD) for age groups, females

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
M	0.998	0.663	0.995	0.998	0.835	0.628	0.077	0.447	0.542	0.835
Sg†	0.960	0.059	0.702	1.000	0.766	0.292	***0.000	*0.026	0.785	0.766
G	0.160	*0.025	0.322	1.000	0.374	**0.001	***0.000	**0.001	0.407	0.374
N	*0.033	0.128	0.129	0.760	1.000	0.055	0.197	0.204	0.851	1.000
Mn	0.704	0.388	0.217	0.918	0.972	0.984	0.897	0.767	1.000	0.972
Rhi	0.063	0.056	0.439	0.935	0.996	0.222	0.237	0.821	0.999	0.996
Ss	*0.038	0.602	0.458	0.929	0.189	0.981	0.940	0.964	0.618	0.189
Mp	**0.008	0.877	0.849	0.965	0.986	0.068	0.999	0.999	1.000	0.986
Pr	**0.001	0.289	0.743	0.961	0.993	*0.012	0.769	0.988	1.000	0.993
Ids	*0.011	0.363	0.168	0.503	0.573	0.934	0.999	1.000	0.998	0.573
Nlr L	0.663	0.998	0.461	0.999	1.000	0.802	1.000	0.659	1.000	1.000
Nlr R	0.265	0.997	0.876	0.916	1.000	0.211	0.979	0.776	0.830	1.000
Nmf L	1.000	0.997	0.994	0.593	0.953	0.920	0.997	0.998	0.987	0.953
Nmf R	1.000	0.932	0.996	0.478	0.972	0.986	1.000	0.999	0.939	0.972
Mf L	0.392	0.940	0.936	1.000	0.969	0.857	1.000	1.000	0.988	0.969
Mf R	0.677	1.000	1.000	1.000	0.999	0.873	0.997	0.995	0.989	0.999
Mnm L	0.952	0.992	0.912	0.952	0.658	0.993	0.276	0.104	0.158	0.658
Mnm R	0.709	1.000	0.986	1.000	0.092	0.890	0.052	0.221	0.104	0.092
Nm L†	1.000	0.694	0.997	0.999	0.998	0.964	0.427	1.000	0.951	0.998
Nm R†	0.972	0.643	0.997	0.998	0.995	0.688	0.241	0.850	0.897	0.995
Al L†	0.456	0.879	0.999	0.995	0.683	*0.036	0.123	0.385	0.279	0.683
Al R	0.486	0.938	1.000	1.000	0.058	***0.000	**0.002	0.064	*0.018	0.058

Table B.87c continued

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
Lno L	0.998	0.643	0.998	0.999	0.998	0.968	0.383	0.945	0.972	0.998
Lno R	0.919	0.575	1.000	0.999	0.979	0.569	0.180	0.959	0.884	0.979
Cf L†	0.993	1.000	0.999	0.925	0.965	1.000	0.972	0.996	1.000	0.965
Cf R	1.000	0.477	0.969	0.985	0.450	0.604	1.000	0.805	0.775	0.450
Sc L	**0.003	0.577	0.830	0.963	0.986	*0.038	0.966	0.999	1.000	0.986
Sc R	**0.007	0.873	0.824	1.000	0.999	**0.004	0.715	0.651	0.999	0.999
Fe L†	0.992	0.400	0.995	0.971	0.992	0.703	**0.008	0.603	0.399	0.992
Fe R	1.000	0.935	0.996	1.000	0.858	0.832	0.280	0.505	0.804	0.858
Lf L	1.000	0.242	0.988	0.991	0.668	0.810	**0.004	0.218	0.921	0.668
Lf R†	0.998	0.106	0.934	0.999	0.895	0.661	**0.005	0.270	0.595	0.895
So L	0.509	**0.003	0.462	1.000	0.982	0.180	***0.000	0.123	0.947	0.982
So R	0.101	**0.005	0.553	1.000	0.899	**0.007	***0.000	0.067	0.755	0.899
Os L	0.460	0.586	0.912	0.986	0.261	**0.003	**0.002	*0.013	*0.044	0.261
Os R	0.778	0.624	0.995	1.000	0.053	**0.002	***0.000	**0.005	*0.025	0.053
Or L	0.983	0.600	0.913	0.988	0.666	0.309	*0.025	0.098	0.240	0.666
Or R†	0.949	0.465	0.978	0.998	0.695	0.113	**0.001	0.091	0.161	0.695
Sor L	0.999	0.998	1.000	0.989	0.713	0.541	0.395	0.620	0.947	0.713
Sor R	0.998	0.787	1.000	1.000	0.837	0.636	0.126	0.607	0.773	0.837
Smc L†	0.050	0.071	0.499	0.960	0.999	0.133	0.213	0.562	0.922	0.999
Smc R†	0.341	0.291	0.997	0.999	0.871	0.051	*0.042	0.597	0.922	0.872
Ecm L	0.433	0.122	0.723	0.926	0.999	0.273	0.069	0.510	0.766	0.999
Ecm R	*0.038	**0.009	0.701	0.771	0.996	*0.040	*0.014	0.537	0.597	0.996

Table B.87c continued

Landmark	55-64/<24	55-64/25-34	55-64/35-44	55-64/45-54	55-64/65-84	65-84/<24	65-84/25-34	65-84/35-44	65-84/45-54	65-84/55-64
Ft L	0.984	0.953	1.000	0.997	0.991	1.000	0.685	0.966	1.000	0.991
Ft R	0.995	0.909	1.000	0.995	0.987	1.000	0.551	0.985	1.000	0.987
Fmt L	1.000	1.000	1.000	0.932	0.817	0.957	0.673	0.619	0.999	0.817
Fmt R	0.998	0.459	0.999	0.992	0.981	0.890	0.129	0.867	1.000	0.981
Fmo L	0.248	0.804	0.065	0.722	1.000	0.205	0.734	0.052	0.644	1.000
Fmo R	0.646	0.250	0.322	0.932	0.900	0.138	*0.018	*0.024	0.325	0.900
Ec L	0.699	0.340	0.384	0.998	0.350	*0.016	**0.001	**0.001	0.118	0.350
Ec R	1.000	0.663	1.000	1.000	0.079	0.116	***0.000	*0.029	0.100	0.079
Mz L	0.999	0.269	0.823	0.982	1.000	0.984	0.155	0.640	0.912	1.000
Mz R	0.999	0.105	0.775	0.916	1.000	1.000	0.144	0.833	0.945	1.000
Zm L	1.000	0.135	0.447	0.945	0.839	0.784	0.846	0.997	0.999	0.839
Zm R	0.984	**0.005	0.232	0.490	0.291	0.792	0.748	1.000	0.996	0.291
Ol L	0.740	0.748	0.977	0.988	0.969	0.998	1.000	1.000	1.000	0.969
Ol R†	0.931	0.466	0.994	1.000	1.000	0.921	0.357	0.995	1.000	1.000
Ju L	0.997	0.568	0.865	0.977	1.000	0.999	0.643	0.911	0.989	1.000
Ju R	0.986	0.087	0.630	0.927	0.923	1.000	0.625	0.998	1.000	0.923
Zy L	1.000	0.846	0.977	1.000	0.994	0.999	0.995	1.000	0.999	0.994
Zy R	1.000	0.613	1.000	0.544	0.891	0.966	0.092	0.701	0.994	0.891
Sgl L	0.996	0.997	0.997	0.264	0.317	0.155	0.115	0.405	0.999	0.317
Sgl R†	0.863	0.086	0.990	0.983	0.998	0.580	**0.001	0.782	0.719	0.998
Cdl L	0.992	0.991	0.992	0.989	0.996	0.929	0.917	0.918	1.000	0.996
Cdl R	1.000	0.995	0.999	1.000	0.995	0.994	0.892	0.930	0.988	0.995

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.88 - Correlations of facial soft tissue thicknesses with BMI (kg/m²)

Facial soft tissue thickness measurement recorded at:	r_s	n	Sig. (2-tailed)	R^2	Variation accounted for (%)
Metopion	0.513	320	***0.000	0.2632	26.3169
Supraglabella	0.570	320	***0.000	0.3249	32.4900
Glabella	0.525	320	***0.000	0.2756	27.5625
Nasion	0.405	320	***0.000	0.1640	16.4025
Mid-nasal	0.343	319	***0.000	0.1176	11.7649
Rhinion	0.292	318	***0.000	0.0853	8.5264
Subspinale	0.206	318	***0.000	0.0424	4.2436
Mid-philtrum	0.276	310	***0.000	0.0762	7.6176
Prosthion	0.181	274	**0.003	0.0328	3.2761
Alveolare	0.191	247	**0.003	0.0365	3.6481
Nasio-labial ridge left	0.253	286	***0.000	0.0640	6.4009
Nasio-labial ridge right	0.260	287	***0.000	0.0676	6.7600
Nasomaxillofrontale left	0.326	320	***0.000	0.1063	10.6276
Nasomaxillofrontale right	0.306	320	***0.000	0.0936	9.3636
Maxillofrontale left	0.252	320	***0.000	0.0635	6.3504
Maxillofrontale right	0.255	320	***0.000	0.0650	6.5025
Mid-nasomaxillare left	0.306	311	***0.000	0.0936	9.3636
Mid-nasomaxillare right	0.305	315	***0.000	0.0930	9.3025
Nasomaxillare left	0.398	318	***0.000	0.1584	15.8404
Nasomaxillare right	0.390	318	***0.000	0.1521	15.2100
Alare left	0.369	320	***0.000	0.1362	13.6161
Alare right	0.369	320	***0.000	0.1362	13.6161
Lateral nostril left	0.381	320	***0.000	0.1452	14.5161
Lateral nostril right	0.384	320	***0.000	0.1475	14.7456
Canine fossa left	0.289	311	***0.000	0.0835	8.3521
Canine fossa right	0.288	312	***0.000	0.0829	8.2944
Supracanine left	0.279	280	***0.000	0.0778	7.7841
Supracanine right	0.238	286	***0.000	0.0566	5.6644
Frontal eminence left	0.501	318	***0.000	0.2510	25.1001
Frontal eminence right	0.434	320	***0.000	0.1884	18.8356
Lateral frontal left	0.577	319	***0.000	0.3329	33.2929
Lateral frontal right	0.540	320	***0.000	0.2916	29.1600
Supraorbital left	0.574	319	***0.000	0.3295	32.9476
Supraorbital right	0.557	320	***0.000	0.3102	31.0249
Orbitale superius left?	0.484	320	***0.000	0.2343	23.4256
Orbitale superius right‡	0.436	320	***0.000	0.1901	19.0096
Orbitale left	0.372	320	***0.000	0.1384	13.8384
Orbitale right	0.385	320	***0.000	0.1482	14.8225

Table B.88 continued

Facial soft tissue thickness measurement recorded at:	r_s	n	Sig. (2-tailed)	R^2	Variation accounted for (%)
Suborbital left	0.422	320	***0.000	0.1781	17.8084
Suborbital right	0.432	320	***0.000	0.1866	18.6624
Submaxillar curvature left	0.607	306	***0.000	0.3684	36.8449
Submaxillar curvature right	0.650	309	***0.000	0.4225	42.2500
Ectomolare left	0.588	246	***0.000	0.3457	34.5744
Ectomolare right	0.616	252	***0.000	0.3795	37.9456
Frontotemporale left	0.635	319	***0.000	0.4032	40.3225
Frontotemporale right	0.609	320	***0.000	0.3709	37.0881
Frontomolare temporale left	0.509	320	***0.000	0.2591	25.9081
Frontomolare temporale right	0.574	320	***0.000	0.3295	32.9476
Frontomolare orbitale left	0.384	320	***0.000	0.1475	14.7456
Frontomolare orbitale right	0.384	319	***0.000	0.1475	14.7456
Ectoconchion left	0.317	320	***0.000	0.1005	10.0489
Ectoconchion right	0.350	320	***0.000	0.1225	12.2500
Mid-zygomatic left	0.499	320	***0.000	0.2490	24.9001
Mid-zygomatic right	0.481	320	***0.000	0.2314	23.1361
Zygomaxillare left	0.541	320	***0.000	0.2927	29.2681
Zygomaxillare right	0.538	319	***0.000	0.2894	28.9444
Occlusal line left	0.607	244	***0.000	0.3684	36.8449
Occlusal line right?	0.617	255	***0.000	0.3807	38.0689
Jugale left	0.578	291	***0.000	0.3341	33.4084
Jugale right	0.582	309	***0.000	0.3387	33.8724
Zygion left	0.583	205	***0.000	0.3399	33.9889
Zygion right	0.664	242	***0.000	0.4409	44.0896
Supraglenoid left?	0.544	181	***0.000	0.2959	29.5936
Supraglenoid right?	0.541	216	***0.000	0.2927	29.2681
Condylion laterale left	0.443	172	***0.000	0.1962	19.6249
Condylion laterale right?	0.449	210	***0.000	0.2016	20.1601

? Pearson product moment correlation coefficient

** Statistically significant at $p < 0.01$, and *** $p < 0.001$

Table B.89 - Results of the ANOVA for the between-subject effects of BMI

Landmark	Both sexes	Males	Females
Midline			
Metopion	***0.000	***0.000	***0.000
Supraglabella	***0.000	***0.000	***0.000
Glabella	***0.000	***0.000	***0.000
Nasion	***0.000	***0.000	***0.000
Mid-nasal	***0.000	***0.000	**0.003
Rhinion	***0.000	***0.000	**0.003
Subspinale	*0.023	0.687	*0.019
Mid-philtrum	***0.000	*0.046	**0.005
Prosthion	**0.006	**0.002	0.064‡
Alveolare	*0.014	*0.023	0.043‡
Bilateral			
Nasio-labial ridge left	**0.001	*0.032	***0.000
Nasio-labial ridge right	**0.003	0.100	***0.000
Nasomaxillofrontale left	***0.000	*0.032	**0.003
Nasomaxillofrontale right	***0.000	*0.019	*0.034
Maxillofrontale left	**0.001	0.081	0.081
Maxillofrontale right	***0.000	*0.021	**0.004
Mid-nasomaxillare left	***0.000	*0.011	***0.000
Mid-nasomaxillare right	***0.000	*0.016	**0.001
Nasomaxillare left	***0.000	*0.022	***0.000
Nasomaxillare right	***0.000	*0.022	***0.000
Alare left	***0.000	***0.000	**0.015
Alare right	***0.000	***0.000	**0.016
Lateral nostril left	***0.000	***0.000	***0.000
Lateral nostril right	***0.000	0.001	***0.000
Canine fossa left	***0.000	*0.019	**0.005
Canine fossa right	***0.000	*0.016	*0.011
Supracanine left	***0.000	***0.000	*0.042‡
Supracanine right	***0.000	**0.001	**0.008
Frontal eminence left	***0.000	***0.000	***0.000
Frontal eminence right	***0.000	***0.000	***0.000
Lateral frontal left	***0.000	***0.000	***0.000
Lateral frontal right	***0.000	***0.000	***0.000
Supraorbital left	***0.000	***0.000	***0.000
Supraorbital right	***0.000	***0.000	***0.000
Orbitale superius left	***0.000	***0.000	***0.000‡
Orbitale superius right	***0.000	***0.000	***0.000

Table B.89 continued

Landmark	Both sexes	Males	Females
Bilateral			
Orbitale left	***0.000	***0.000	***0.000
Orbitale right	***0.000	***0.000	***0.000
Suborbital left	***0.000	***0.000	***0.000
Suborbital right	***0.000	***0.000	***0.000
Submaxillar curvature left	***0.000	***0.000	***0.000
Submaxillar curvature right	***0.000	***0.000	***0.000
Ectomolare left	***0.000	***0.000	***0.000‡
Ectomolare right	***0.000	***0.000	***0.000
Frontotemporale left	***0.000	***0.000	***0.000
Frontotemporale right	***0.000	***0.000	***0.000
Frontomolare temp. left	***0.000	***0.000	***0.000
Frontomolare temp. right	***0.000	***0.000	***0.000
Frontomolare orb. left	***0.000	**0.001	***0.000
Frontomolare orb. right	***0.000	**0.002	***0.000
Ectoconchion left	***0.000	0.275	***0.000
Ectoconchion right	***0.000	*0.045	***0.000
Mid-zygomatic left	***0.000	***0.000	***0.000
Mid-zygomatic right	***0.000	***0.000	***0.000
Zygomaxillare left	***0.000	***0.000	***0.000
Zygomaxillare right	***0.000	***0.000	***0.000
Occlusal line left	***0.000	***0.000	***0.000‡
Occlusal line right	***0.000	***0.000	***0.000
Jugale left	***0.000	***0.000	***0.000
Jugale right	***0.000	***0.000	***0.000
Zygion left	***0.000	***0.000	***0.000
Zygion right	***0.000	***0.000	***0.000
Supraglenoid left	***0.000	***0.000	***0.000
Supraglenoid right	***0.000	***0.000	***0.000
Condylion lateral left	***0.000	*0.014	***0.000
Condylion lateral right	***0.000	**0.004	***0.000
Supraglenoid left	***0.000	***0.000	***0.000
Supraglenoid right	***0.000	***0.000	***0.000
Condylion lateral left	***0.000	*0.014	***0.000
Condylion lateral right	***0.000	**0.004	***0.000

‡ Kruskal Wallis *H* test* Statistically significant at level $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$

Table B.90 - Effect sizes (η^2) of BMI category, in both sexes and in males and females

Landmark	Both sexes	Males	Females
Midline			
Metopion	*0.19	*0.16	*0.18
Supraglabella	**0.28	**0.30	**0.23
Glabella	**0.27	**0.30	**0.21
Nasion	*0.16	*0.16	*0.12
Mid-nasal	*0.13	*0.16	*0.09
Rhinion	*0.07	0.04	*0.09
Subspinale	0.03	0.01	0.06
Mid-philtrum	0.06	0.05	*0.08
Prosthion	0.05	*0.10	0.05
Alveolare	0.04	*0.07	0.05
Bilateral			
Nasio-labial ridge left	0.06	0.06	*0.16
Nasio-labial ridge right	0.05	0.04	*0.12
Nasomaxillofrontale left	*0.08	0.05	*0.09
Nasomaxillofrontale right	*0.07	0.06	0.05
Maxillofrontale left	0.05	0.04	0.04
Maxillofrontale right	*0.08	0.06	*0.08
Mid-nasomaxillare left	*0.09	*0.07	*0.11
Mid-nasomaxillare right	*0.08	*0.07	*0.10
Nasomaxillare left	*0.12	0.06	*0.18
Nasomaxillare right	*0.11	0.06	*0.15
Alare left	*0.11	*0.14	0.06
Alare right	*0.11	*0.14	0.06
Lateral nostril left	*0.14	*0.13	*0.13
Lateral nostril right	*0.13	*0.09	*0.15
Canine fossa left	*0.08	0.06	*0.08
Canine fossa right	*0.07	*0.07	*0.07
Supracanine left	*0.08	*0.13	0.05
Supracanine right	*0.07	*0.11	*0.08
Frontal eminence left	**0.21	*0.13	**0.26
Frontal eminence right	*0.16	*0.11	*0.17
Lateral frontal left	**0.28	*0.20	**0.32
Lateral frontal right	**0.25	**0.22	**0.23
Supraorbital left	**0.26	*0.18	**0.32
Supraorbital right	**0.25	*0.19	**0.29
Orbitale superius left	*0.19	*0.20	*0.17
Orbitale superius right	*0.18	*0.16	*0.17
Orbitale left	*0.16	*0.18	*0.14
Orbitale right	*0.17	*0.16	*0.19

Table B.90 continued

Landmark	Both sexes	Males	Females
Bilateral			
Suborbital left	**0.21	**0.22	**0.21
Suborbital right	**0.23	**0.22	**0.24
Submaxillar curvature left	**0.33	**0.35	**0.31
Submaxillar curvature right	**0.36	**0.38	**0.32
Ectomolare left	**0.30	**0.35	**0.23
Ectomolare right	**0.30	**0.33	**0.26
Frontotemporale left	**0.32	**0.31	**0.31
Frontotemporale right	**0.29	**0.31	**0.26
Frontomolare temp. left	**0.22	**0.22	*0.20
Frontomolare temp. right	**0.26	**0.22	**0.28
Frontomolare orb. left	*0.13	*0.10	*0.14
Frontomolare orb. right	*0.12	*0.09	*0.14
Ectoconchion left	*0.07	0.02	*0.15
Ectoconchion right	*0.10	0.05	*0.17
Mid-zygomatic left	**0.27	**0.41	**0.31
Mid-zygomatic right	**0.25	**0.35	**0.31
Zygomaxillare left	**0.26	**0.28	**0.24
Zygomaxillare right	**0.23	*0.20	**0.28
Occlusal line left	**0.31	**0.40	**0.27
Occlusal line right	**0.33	**0.44	**0.25
Jugale left	**0.29	**0.34	**0.31
Jugale right	**0.32	**0.31	**0.39
Zygion left	**0.30	**0.31	**0.30
Zygion right	**0.37	**0.39	**0.36
Supraglenoid left	**0.25	**0.31	**0.25
Supraglenoid right	**0.23	**0.22	**0.29
Condylion lateral left	*0.16	*0.14	**0.23
Condylion lateral right	*0.16	*0.13	*0.20

* Medium effect

** Large effect

Table B.91a - Results of multiple comparisons (Tukey HSD) for BMI categories, both sexes

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
M†	0.357	**0.006	***0.000	0.357	***0.000	***0.000
Sg†	0.104	***0.000	***0.000	0.104	***0.000	***0.000
G†	0.316	**0.001	***0.000	0.316	***0.000	***0.000
N	0.579	**0.008	**0.002	0.579	***0.000	***0.000
Mn	0.786	0.176	**0.004	0.786	**0.004	***0.000
Rhi	0.943	0.386	0.155	0.943	**0.004	***0.000
Ss	0.949	0.804	0.328	0.949	0.680	*0.016
Mp	0.877	0.657	0.083	0.877	0.603	***0.000
Pr	0.840	0.974	0.964	0.840	0.554	**0.003
Ids†	0.806	0.972	0.289	0.806	0.913	**0.007
Nlr L	0.999	0.976	0.477	0.999	0.353	***0.000
Nlr R	0.921	0.590	0.177	0.921	0.264	**0.003
Nmf L	0.757	0.338	*0.022	0.757	0.141	***0.000
Nmf R	0.815	0.338	*0.043	0.815	0.068	***0.000
Mf L	0.914	0.543	0.154	0.914	0.155	**0.001
Mf R	0.665	0.173	*0.016	0.665	*0.026	***0.000
Mnm L†	0.899	1.000	0.816	0.899	0.056	***0.000
Mnm R†	0.973	0.943	0.617	0.973	**0.005	***0.000
Nm L	0.998	0.501	*0.042	0.998	**0.001	***0.000
Nm R†	0.904	0.132	**0.008	0.904	**0.002	***0.000
Al L	0.551	*0.043	**0.004	0.551	***0.000	***0.000
Al R	0.332	*0.025	**0.001	0.332	**0.002	***0.000

Table B.91a continued

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
Lno L†	0.979	0.317	*0.018	0.979	**0.003	***0.000
Lno R†	0.339	**0.001	***0.000	0.339	***0.000	***0.000
Cf L	0.665	0.287	*0.016	0.665	0.208	***0.000
Cf R	0.949	0.664	0.100	0.949	0.258	***0.000
Sc L	0.873	0.660	0.052	0.873	0.610	***0.000
Sc R	1.000	0.999	0.376	1.000	0.880	***0.000
Fe L†	0.201	*0.013	**0.001	0.201	***0.000	***0.000
Fe R	0.294	*0.010	***0.000	0.294	***0.000	***0.000
Lf L†	*0.044	***0.000	***0.000	*0.044	***0.000	***0.000
Lf R	0.328	***0.000	***0.000	0.328	***0.000	***0.000
So L†	**0.005	***0.000	***0.000	**0.005	***0.000	***0.000
So R†	*0.018	***0.000	***0.000	*0.018	***0.000	***0.000
Os L	0.377	**0.007	***0.000	0.377	***0.000	***0.000
Os R	0.845	*0.043	**0.002	0.845	***0.000	***0.000
Or L	1.000	0.539	*0.025	1.000	***0.000	***0.000
Or R†	1.000	0.484	0.107	1.000	***0.000	***0.000
Sor L†	0.974	0.653	0.064	0.974	***0.000	***0.000
Sor R	1.000	0.371	**0.003	1.000	***0.000	***0.000
Smc L	0.735	**0.003	***0.000	0.735	***0.000	***0.000
Smc R	0.280	***0.000	***0.000	0.280	***0.000	***0.000
Ecm L	0.992	0.339	*0.017	0.992	***0.000	***0.000
Ecm R	0.754	**0.009	***0.000	0.754	***0.000	***0.000

Table B.91a continued

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
Ft L†	0.103	**0.001	***0.000	0.103	***0.000	***0.000
Ft R†	0.237	**0.002	***0.000	0.237	***0.000	***0.000
Fmt L†	0.186	**0.004	***0.000	0.186	***0.000	***0.000
Fmt R†	0.680	**0.009	***0.000	0.680	***0.000	***0.000
Fmo L	0.792	0.133	**0.005	0.792	**0.001	***0.000
Fmo R†	0.985	0.314	0.105	0.985	***0.000	***0.000
Ec L†	0.858	0.299	0.165	0.858	**0.002	**0.002
Ec R†	0.877	0.052	**0.007	0.877	***0.000	***0.000
Mz L	1.000	0.177	***0.000	1.000	***0.000	***0.000
Mz R	1.000	0.246	**0.002	1.000	***0.000	***0.000
Zm L	0.709	*0.028	***0.000	0.709	***0.000	***0.000
Zm R	0.607	*0.021	***0.000	0.607	***0.000	***0.000
Ol L	0.406	**0.004	***0.000	0.406	***0.000	***0.000
Ol R	0.302	**0.001	***0.000	0.302	***0.000	***0.000
Ju L	0.989	*0.043	***0.000	0.989	***0.000	***0.000
Ju R†	0.974	0.148	**0.005	0.974	***0.000	***0.000
Zy L	0.610	**0.004	***0.000	0.610	***0.000	***0.000
Zy R	0.329	***0.000	***0.000	0.329	***0.000	***0.000
Sgl L	0.465	**0.007	***0.000	0.465	***0.000	***0.000
Sgl R†	0.356	*0.029	**0.001	0.356	**0.002	***0.000
Cdl L†	0.213	**0.002	**0.005	0.213	***0.000	*0.047
Cdl R	0.475	*0.019	**0.001	0.475	***0.000	***0.000

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.91b – Results of multiple comparisons (Tukey HSD) for BMI categories, both sexes

Landmark	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	30.0 > BMI/	30.0 > BMI/	30.0 > BMI/
	BMI < 18.5	18.5 > BMI < 25.0	30.0 > BMI	BMI < 18.5	18.5 > BMI < 25.0	25.0 > BMI < 30.0
M†	**0.006	***0.000	0.050	***0.000	***0.000	0.050
Sg†	***0.000	***0.000	**0.007	***0.000	***0.000	**0.007
G†	**0.001	***0.000	0.082	***0.000	***0.000	0.082
N	**0.008	***0.000	0.699	**0.002	***0.000	0.699
Mn	0.176	**0.004	**0.004	**0.004	***0.000	**0.004
Rhi	0.386	**0.004	0.504	0.155	***0.000	0.504
Ss	0.804	0.680	0.217	0.328	*0.016	0.217
Mp	0.657	0.603	*0.018	0.083	***0.000	*0.018
Pr	0.974	0.554	0.100	0.964	**0.003	0.100
Ids†	0.972	0.913	*0.029	0.289	**0.007	*0.029
Nlr L	0.976	0.353	0.062	0.477	***0.000	0.062
Nlr R	0.590	0.264	0.262	0.177	**0.003	0.262
Nmf L	0.338	0.141	*0.017	*0.022	***0.000	*0.017
Nmf R	0.338	0.068	0.081	*0.043	***0.000	0.081
Mf L	0.543	0.155	0.221	0.154	**0.001	0.221
Mf R	0.173	*0.026	0.087	*0.016	***0.000	0.087
Mnm L†	1.000	0.056	*0.026	0.819	***0.000	*0.026
Mnm R†	0.943	**0.005	0.318	0.617	***0.000	0.318
Nm L	0.501	**0.001	*0.013	*0.042	***0.000	*0.013
Nm R†	0.132	**0.002	0.060	**0.008	***0.000	0.060
Al L	*0.043	***0.000	0.209	**0.004	***0.000	0.209
Al R	*0.025	**0.002	0.101	**0.001	***0.000	0.101

Table B.91b continued

Landmark	25.0 > BMI < 30.0/ BMI < 18.5	25.0 > BMI < 30.0/ 18.5 > BMI < 25.0	25.0 > BMI < 30.0/ 30.0 > BMI	30.0 > BMI/ BMI < 18.5	30.0 > BMI/ 18.5 > BMI < 25.0	30.0 > BMI/ 25.0 > BMI < 30.0
Lno Lt	0.317	**0.003	**0.002	*0.018	***0.000	**0.002
Lno Rt	**0.001	***0.000	0.174	***0.000	***0.000	0.174
Cf L	0.287	0.208	*0.017	*0.016	***0.000	*0.017
Cf R	0.664	0.258	*0.027	0.100	***0.000	*0.027
Sc L	0.660	0.610	**0.003	0.052	***0.000	**0.003
Sc R	0.999	0.880	**0.002	0.376	***0.000	**0.002
Fe Lt	*0.013	***0.000	**0.003	**0.001	***0.000	**0.003
Fe R	*0.010	***0.000	*0.011	***0.000	***0.000	*0.011
Lf Lt	***0.000	***0.000	0.116	***0.000	***0.000	0.116
Lf R	***0.000	***0.000	*0.049	***0.000	***0.000	*0.049
So Lt	***0.000	***0.000	**0.003	***0.000	***0.000	**0.003
So Rt	***0.000	***0.000	*0.027	***0.000	***0.000	*0.027
Os L	**0.007	***0.000	**0.003	***0.000	***0.000	**0.003
Os R	*0.043	***0.000	0.060	**0.002	***0.000	0.060
Or L	0.539	***0.000	**0.002	*0.025	***0.000	**0.002
Or Rt	0.484	***0.000	*0.037	0.107	***0.000	*0.037
Sor Lt	0.653	***0.000	***0.000	0.064	***0.000	***0.000
Sor R	0.371	***0.000	***0.000	**0.003	***0.000	***0.000
Smc L	**0.003	***0.000	***0.000	***0.000	***0.000	***0.000
Smc R	***0.000	***0.000	**0.002	***0.000	***0.000	**0.002
Ecm L	0.339	***0.000	**0.004	*0.017	***0.000	**0.004
Ecm R	**0.009	***0.000	*0.010	***0.000	***0.000	*0.010

Table B.91b continued

Landmark	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	30.0 > BMI/	30.0 > BMI/	30.0 > BMI/
	BMI < 18.5	18.5 > BMI < 25.0	30.0 > BMI	BMI < 18.5	18.5 > BMI < 25.0	25.0 > BMI < 30.0
Ft L†	**0.001	***0.000	**0.001	***0.000	***0.000	**0.001
Ft R†	**0.002	***0.000	**0.001	***0.000	***0.000	**0.001
Fmt L†	**0.004	***0.000	**0.006	***0.000	***0.000	**0.006
Fmt R†	**0.009	***0.000	*0.017	***0.000	***0.000	*0.017
Fmo L	0.133	**0.001	*0.022	**0.005	***0.000	*0.022
Fmo R†	0.314	***0.000	0.235	0.105	***0.000	0.235
Ec L†	0.299	**0.002	0.692	0.165	**0.002	0.692
Ec R†	0.052	***0.000	0.404	**0.007	***0.000	0.404
Mz L	0.177	***0.000	***0.000	***0.000	***0.000	***0.000
Mz R	0.246	***0.000	***0.000	**0.002	***0.000	***0.000
Zm L	*0.028	***0.000	***0.000	***0.000	***0.000	***0.000
Zm R	*0.021	***0.000	***0.000	***0.000	***0.000	***0.000
Ol L	**0.004	***0.000	***0.000	***0.000	***0.000	***0.000
Ol R	**0.001	***0.000	***0.000	***0.000	***0.000	***0.000
Ju L	*0.043	***0.000	***0.000	***0.000	***0.000	***0.000
Ju R†	0.148	***0.000	***0.000	**0.005	***0.000	***0.000
Zy L	**0.004	***0.000	**0.001	***0.000	***0.000	**0.001
Zy R	***0.000	***0.000	***0.000	***0.000	***0.000	***0.000
Sgl L	**0.007	***0.000	**0.009	***0.000	***0.000	**0.009
Sgl R†	*0.029	**0.002	***0.000	**0.001	***0.000	***0.000
Cdl L†	**0.002	***0.000	0.961	**0.005	*0.047	0.961
Cdl R	*0.019	***0.000	0.238	**0.001	***0.000	0.238

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.92a - Results of multiple comparisons (Tukey HSD) for BMI categories, males

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
M	0.791	0.308	0.080	0.791	**0.007	***0.000
Sg	0.528	0.056	**0.002	0.528	***0.000	***0.000
G	0.795	0.089	*0.013	0.795	***0.000	***0.000
N†	*0.028	**0.002	***0.000	*0.028	**0.001	**0.001
Mn	0.217	0.075	**0.006	0.217	0.183	***0.000
Rhi	0.856	0.663	0.496	0.856	0.497	0.158
Ss	0.859	0.892	0.763	0.859	0.990	0.907
Mp	0.511	0.608	0.211	0.511	0.934	0.199
Pr	0.743	0.795	0.175	0.743	0.986	**0.006
Ids†	**0.009	*0.011	***0.000	**0.009	0.922	0.050
Nlr L	0.148	0.139	*0.041	0.148	0.999	0.241
Nlr R	0.169	0.152	0.080	0.169	0.995	0.596
Nmf L	0.809	0.774	0.341	0.809	0.993	*0.040
Nmf R	0.762	0.689	0.268	0.762	0.957	*0.023
Mf L	0.756	0.724	0.359	0.756	0.995	0.114
Mf R	0.744	0.614	0.254	0.744	0.824	*0.023
Mnm L	0.835	0.880	0.999	0.835	0.981	**0.009
Mnm R	0.655	0.814	0.997	0.655	0.699	*0.011
Nm L	0.952	1.000	0.983	0.952	0.169	*0.018
Nm R†	0.811	0.992	0.628	0.811	0.254	*0.028
Al L	0.765	0.322	0.095	0.765	*0.017	***0.000
Al R	0.375	0.106	*0.024	0.375	*0.035	***0.000

Table B.92a continued

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
Lno L†	0.624	0.411	0.203	0.624	0.242	***0.000
Lno R	0.822	0.405	0.243	0.822	*0.029	**0.004
Cf L†	0.528	0.484	0.348	0.528	0.956	*0.018
Cf R	0.383	0.262	0.088	0.383	0.776	*0.041
Sc L						
Sc R						
Fe L	0.843	0.537	0.123	0.843	0.154	***0.000
Fe R	0.925	0.613	0.264	0.925	0.075	***0.000
Lf L	0.556	0.087	*0.021	0.566	***0.000	***0.000
Lf R	0.717	0.108	*0.035	0.717	***0.000	***0.000
So L	0.599	0.170	*0.027	0.599	**0.006	***0.000
So R	0.772	0.247	0.053	0.772	**0.002	***0.000
Os L	0.348	0.115	**0.006	0.348	0.083	***0.000
Os R	0.826	0.401	0.090	0.826	*0.024	***0.000
Or L	1.000	0.911	0.356	1.000	*0.016	**0.007
Or R	0.999	0.773	0.331	0.999	**0.006	***0.000
Sor L	1.000	0.869	0.243	1.000	**0.006	***0.000
Sor R	1.000	0.900	0.260	1.000	*0.010	***0.000
Smc L	0.694	0.055	**0.003	0.694	***0.000	***0.000
Smc R	0.773	*0.035	**0.004	0.773	***0.000	***0.000
Ecm L						
Ecm R						

Table B.92a continued

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
Ft L	0.640	0.142	**0.003	0.640	**0.001	***0.000
Ft R†	0.737	0.466	0.284	0.737	***0.000	***0.000
Fmt L	0.850	0.459	*0.037	0.850	*0.041	***0.000
Fmt R†	0.764	0.474	0.247	0.764	**0.002	***0.000
Fmo L	1.000	0.915	0.556	1.000	0.107	***0.000
Fmo R	0.998	0.880	0.565	0.998	0.097	**0.001
Ec L	0.986	1.000	0.996	0.986	0.611	0.233
Ec R	1.000	0.967	0.807	1.000	0.391	*0.030
Mz L	0.992	0.552	*0.041	0.992	***0.000	***0.000
Mz R	0.994	0.646	0.087	0.994	***0.000	***0.000
Zm L	0.838	0.272	*0.014	0.838	**0.001	***0.000
Zm R	0.870	0.435	0.056	0.870	*0.016	***0.000
Ol L	0.811	0.195	**0.001	0.811	**0.001	***0.000
Ol R	0.252	**0.006	***0.000	0.252	***0.000	***0.000
Ju L	0.999	0.526	0.081	0.999	***0.000	***0.000
Ju R	0.999	0.583	0.134	0.999	***0.000	***0.000
Zy L	0.982	0.485	*0.021	0.982	**0.005	***0.000
Zy R	0.879	0.240	**0.003	0.879	**0.001	***0.000
Sgl L	0.573	0.247	**0.002	0.573	0.296	***0.000
Sgl R	0.115	0.056	**0.001	0.115	0.693	***0.000
Cdl L	0.648	0.297	0.093	0.648	0.298	*0.032
Cdl R	0.173	0.053	*0.015	0.173	0.291	*0.043

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.92b – Results of multiple comparisons (Tukey HSD) for BMI categories, males

Landmark	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	30.0 > BMI/	30.0 > BMI/	30.0 > BMI/
	BMI < 18.5	18.5 > BMI < 25.0	30.0 > BMI	BMI < 18.5	18.5 > BMI < 25.0	25.0 > BMI < 30.0
M	0.308	**0.007	0.104	0.080	***0.000	0.104
Sg	0.056	***0.000	**0.003	**0.002	***0.000	**0.003
G	0.089	***0.000	0.064	*0.013	***0.000	0.064
N†	**0.002	**0.001	0.705	***0.000	**0.001	0.705
Mn	0.075	0.183	*0.012	**0.006	***0.000	*0.012
Rhi	0.663	0.497	0.793	0.496	0.158	0.793
Ss	0.892	0.990	0.802	0.763	0.907	0.802
Mp	0.608	0.934	0.081	0.211	0.199	0.081
Pr	0.795	0.986	**0.003	0.175	**0.006	**0.003
Ids†	*0.011	0.922	**0.006	***0.000	0.050	**0.006
Nlr L	0.139	0.999	0.326	*0.041	0.241	0.326
Nlr R	0.152	0.995	0.740	0.080	0.596	0.740
Nmf L	0.774	0.993	0.081	0.341	*0.040	0.081
Nmf R	0.689	0.957	0.078	0.268	*0.023	0.078
Mf L	0.724	0.995	0.188	0.359	0.114	0.188
Mf R	0.614	0.824	0.150	0.254	*0.023	0.150
Mnm L	1.000	0.056	*0.026	0.819	***0.000	*0.026
Mnm R	0.814	0.699	0.131	0.997	*0.011	0.131
Nm L	1.000	0.169	0.598	0.983	*0.018	0.598
Nm R†	0.992	0.254	0.480	0.628	*0.028	0.480
Al L	0.322	*0.017	0.149	0.095	***0.000	0.147
Al R	0.106	*0.035	0.187	*0.024	***0.000	0.187

Table B.92b continued

Landmark	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	30.0 > BMI/	30.0 > BMI/	30.0 > BMI/
	BMI < 18.5	18.5 > BMI < 25.0	30.0 > BMI	BMI < 18.5	18.5 > BMI < 25.0	25.0 > BMI < 30.0
Lno Lt	0.411	0.242	*0.027	0.203	***0.000	*0.027
Lno R	0.405	*0.029	0.682	0.243	**0.004	0.682
Cf Lt	0.484	0.956	0.190	0.348	*0.018	0.190
Cf R	0.262	0.776	0.267	0.088	*0.041	0.267
Sc L						
Sc R						
Fe L	0.537	0.154	*0.020	0.123	***0.000	*0.020
Fe R	0.613	0.075	0.174	0.264	***0.000	0.174
Lf L	0.087	***0.000	0.234	*0.021	***0.000	0.234
Lf R	0.108	***0.000	0.377	*0.035	***0.000	0.377
So L	0.170	**0.006	*0.046	*0.027	***0.000	*0.046
So R	0.247	**0.002	0.081	0.053	***0.000	0.081
Os L	0.115	0.083	**0.002	**0.006	***0.000	**0.002
Os R	0.401	*0.024	*0.041	0.090	***0.000	*0.041
Or L	0.911	*0.016	**0.007	0.356	***0.000	**0.007
Or R	0.773	**0.006	0.071	0.331	***0.000	0.071
Sor L	0.869	**0.006	**0.002	0.243	***0.000	**0.002
Sor R	0.900	*0.010	**0.001	0.260	***0.000	**0.001
Smc L	0.055	***0.000	**0.005	**0.003	***0.000	**0.005
Smc R	*0.035	***0.000	0.065	**0.004	***0.000	0.065
Ecm L						
Ecm R						

Table B.92b continued

Landmark	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	30.0 > BMI/	30.0 > BMI/	30.0 > BMI/
	BMI < 18.5	18.5 > BMI < 25.0	30.0 > BMI	BMI < 18.5	18.5 > BMI < 25.0	25.0 > BMI < 30.0
Ft L	0.142	**0.001	***0.000	**0.003	***0.000	***0.000
Ft R†	0.466	***0.000	**0.006	0.284	***0.000	**0.006
Fmt L	0.459	*0.041	***0.000	*0.037	***0.000	***0.000
Fmt R†	0.474	**0.002	*0.022	0.247	***0.000	*0.022
Fmo L	0.915	0.107	0.126	0.556	***0.000	0.126
Fmo R	0.880	0.097	0.247	0.565	**0.001	0.247
Ec L	1.000	0.611	0.820	0.996	0.233	0.820
Ec R	0.967	0.391	0.471	0.807	*0.030	0.471
Mz L	0.522	***0.000	***0.000	*0.041	***0.000	***0.000
Mz R	0.646	***0.000	**0.001	0.087	***0.000	**0.001
Zm L	0.838	**0.001	***0.000	0.272	**0.001	***0.000
Zm R	0.435	*0.016	**0.003	0.056	***0.000	**0.003
Ol L	0.195	**0.001	***0.000	**0.001	***0.000	***0.000
Ol R	**0.006	***0.000	***0.000	***0.000	***0.000	***0.000
Ju L	0.526	***0.000	**0.008	0.081	***0.000	**0.008
Ju R	0.583	***0.000	*0.017	0.134	***0.000	*0.017
Zy L	0.485	**0.005	**0.004	*0.021	***0.000	**0.004
Zy R	0.240	**0.001	***0.000	**0.003	***0.000	***0.000
Sgl L	0.247	0.296	**0.001	**0.002	***0.000	**0.001
Sgl R	0.056	0.693	*0.011	**0.001	***0.000	*0.011
Cdl L	0.297	0.298	0.493	0.093	*0.032	0.493
Cdl R	0.053	0.291	0.565	*0.015	*0.043	0.565

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.93a - Results of multiple comparisons (Tukey HSD) for BMI categories, females

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
M+	0.910	0.120	*0.025	0.910	***0.000	**0.002
Sg+	0.744	0.052	**0.008	0.744	***0.000	***0.000
G+	0.620	*0.023	**0.006	0.620	***0.000	**0.001
N	0.999	0.405	0.260	0.999	**0.003	**0.003
Mn	0.953	1.000	0.573	0.953	0.417	**0.001
Rhi	0.999	0.890	0.525	0.999	0.093	**0.004
Ss+	0.996	0.999	0.891	0.996	0.991	**0.004
Mp	0.908	0.934	0.701	0.908	0.999	**0.003
Pr	0.096	0.223	0.322	0.096	0.723	0.595
Ids	0.396	0.375	0.882	0.396	0.996	0.294
Nlr L	*0.035	*0.038	0.918	*0.035	0.999	***0.000
Nlr R+	0.858	0.867	0.994	0.858	1.000	***0.000
Nmf L	0.995	0.903	0.192	0.995	0.668	**0.001
Nmf R	1.000	0.908	0.513	1.000	0.413	*0.028
Mf L	0.998	0.952	0.799	0.998	0.290	0.104
Mf R	0.968	0.535	0.197	0.968	0.112	**0.006
Mnm L	0.866	0.985	0.635	0.866	*0.036	**0.001
Mnm R+	1.000	0.661	0.593	1.000	*0.011	0.074
Nm L	0.993	0.684	*0.019	0.993	0.156	***0.000
Nm R+	0.626	*0.048	**0.001	0.626	0.121	**0.001
Al L+	0.832	0.411	0.255	0.832	0.182	*0.025
Al R	0.820	0.450	0.138	0.820	0.381	*0.024

Table B.93a continued

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
Lno L	0.963	0.971	0.286	0.963	0.107	***0.000
Lno R	1.000	0.742	0.098	1.000	*0.039	***0.000
Cf L	1.000	0.937	0.272	1.000	0.625	**0.002
Cf R	0.812	0.901	0.878	0.812	0.975	**0.006
Sc L	0.890	0.905	0.952	0.890	1.000	0.087
Sc R	0.132	0.136	0.910	0.132	0.999	*0.033
Fe L†	0.514	0.076	**0.008	0.514	***0.000	***0.000
Fe R†	0.381	0.110	*0.014	0.381	*0.024	**0.008
Lf L†	0.316	*0.019	**0.002	0.316	***0.000	***0.000
Lf R†	0.557	0.076	*0.011	0.557	***0.000	**0.001
So L	0.835	*0.019	***0.000	0.835	***0.000	***0.000
So R†	*0.018	***0.000	***0.000	*0.018	***0.000	***0.000
Os L	0.926	0.174	*0.022	0.926	**0.002	***0.000
Os R	0.999	0.280	0.106	0.999	***0.000	***0.000
Or L	1.000	0.517	0.130	1.000	**0.007	***0.000
Or R†	0.999	0.674	0.334	0.999	**0.002	***0.000
Sor L†	0.979	0.748	0.228	0.979	**0.004	***0.000
Sor R†	1.000	0.515	0.127	1.000	**0.001	***0.000
Smc L†	0.854	0.057	**0.001	0.854	***0.000	***0.000
Smc R	0.453	**0.004	***0.000	0.453	***0.000	***0.000
Ecm L	0.753	0.985	0.444	0.753	**0.003	***0.000
Ecm R	0.980	0.183	*0.011	0.980	***0.000	***0.000

Table B.93a continued

Landmark	BMI < 18.5/ 18.5 > BMI < 25.0	BMI < 18.5/ 25.0 > BMI < 30.0	BMI < 18.5/ 30.0 > BMI	18.5 > BMI < 25.0/ BMI < 18.5	18.5 > BMI < 25.0/ 25.0 > BMI < 30.0	18.5 > BMI < 25.0/ 30.0 > BMI
Ft L†	0.382	**0.008	***0.000	0.382	***0.000	**0.001
Ft R†	0.661	*0.020	**0.001	0.661	**0.002	**0.001
Fmt L†	0.526	*0.033	**0.008	0.526	**0.005	**0.004
Fmt R†	0.997	0.064	*0.015	0.997	***0.000	***0.000
Fmo L	0.763	0.168	*0.018	0.763	*0.028	***0.000
Fmo R†	0.998	0.453	0.287	0.998	*0.015	***0.000
Ec L†	0.088	***0.000	***0.000	0.088	**0.005	*0.012
Ec R†	0.812	**0.005	**0.005	0.812	**0.001	**0.006
Mz L	0.891	*0.032	***0.000	0.891	***0.000	***0.000
Mz R	0.963	*0.039	**0.001	0.963	***0.000	***0.000
Zm L	0.839	0.101	**0.001	0.839	**0.001	***0.000
Zm R	0.723	*0.025	***0.000	0.723	***0.000	***0.000
Ol L	0.507	*0.024	**0.002	0.507	***0.000	***0.000
Ol R†	0.692	0.149	**0.009	0.692	*0.012	**0.001
Ju L	0.909	*0.038	***0.000	0.909	***0.000	***0.000
Ju R†	0.870	0.202	**0.006	0.870	***0.000	***0.000
Zy L	0.620	**0.009	***0.000	0.620	***0.000	***0.000
Zy R	0.437	**0.001	***0.000	0.437	***0.000	***0.000
Sgl L†	0.517	**0.001	**0.002	0.517	***0.000	**0.006
Sgl R	1.000	0.318	**0.005	1.000	**0.001	***0.000
Cdl L	0.947	*0.022	0.311	0.947	***0.000	0.218
Cdl R	0.999	0.348	0.062	0.999	**0.003	***0.000

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.93b – Results of multiple comparisons (Tukey HSD) for BMI categories, females

Landmark	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	25.0 > BMI < 30.0/	30.0 > BMI/	30.0 > BMI/	30.0 > BMI/
	BMI < 18.5	18.5 > BMI < 25.0	30.0 > BMI	BMI < 18.5	18.5 > BMI < 25.0	25.0 > BMI < 30.0
M†	0.120	***0.000	0.406	*0.025	**0.002	0.406
Sg†	0.052	***0.000	0.358	**0.008	***0.000	0.358
G†	*0.023	***0.000	0.708	**0.006	**0.001	0.708
N	0.405	**0.003	0.920	0.260	**0.003	0.920
Mn	1.000	0.417	0.120	0.573	**0.001	0.120
Rhi	0.890	0.093	0.512	0.525	**0.004	0.512
Ss†	0.999	0.991	*0.041	0.891	**0.004	*0.041
Mp	0.934	0.999	*0.014	0.701	**0.003	*0.014
Pr	0.223	0.723	0.985	0.322	0.595	0.985
Ids	0.375	0.996	0.325	0.882	0.294	0.325
Nlr L	*0.038	0.999	**0.001	0.918	***0.000	**0.001
Nlr R†	0.867	1.000	***0.000	0.994	***0.000	***0.000
Nmf L	0.903	0.668	0.059	0.192	**0.001	0.059
Nmf R	0.908	0.413	0.507	0.513	*0.028	0.507
Mf L	0.952	0.290	0.873	0.799	0.104	0.873
Mf R	0.535	0.112	0.558	0.197	**0.006	0.558
Mnm L	0.985	*0.036	0.385	0.635	**0.001	0.385
Mnm R†	0.661	*0.011	0.984	0.593	0.074	0.984
Nm L	0.684	0.156	**0.003	*0.019	***0.000	**0.003
Nm R†	*0.048	0.121	0.102	**0.001	**0.001	0.102
Al L†	0.411	0.182	0.835	0.255	*0.025	0.835
Al R	0.450	0.381	0.505	0.138	*0.024	0.505

Table B.93b continued

Landmark	25.0 > BMI < 30.0/ BMI < 18.5	25.0 > BMI < 30.0/ 18.5 > BMI < 25.0	25.0 > BMI < 30.0/ 30.0 > BMI	30.0 > BMI/ BMI < 18.5	30.0 > BMI/ 18.5 > BMI < 25.0	30.0 > BMI/ 25.0 > BMI < 30.0
Lno L	0.971	0.107	0.056	0.286	***0.000	0.056
Lno R	0.742	*0.039	0.058	0.098	***0.000	0.058
Cf L	0.937	0.625	0.092	0.272	**0.002	0.092
Cf R	0.901	0.975	*0.043	0.878	**0.006	*0.043
Sc L	0.905	1.000	0.165	0.952	0.087	0.165
Sc R	0.136	0.999	0.054	0.910	*0.033	0.054
Fe L†	0.076	***0.000	0.088	**0.008	***0.000	0.088
Fe R†	0.110	*0.024	**0.008	0.110	*0.024	0.204
Lf L†	*0.019	***0.000	0.434	**0.002	***0.000	0.434
Lf R†	0.076	***0.000	0.239	*0.011	**0.001	0.239
So L	*0.019	***0.000	*0.028	***0.000	***0.000	*0.028
So R†	***0.000	***0.000	0.309	***0.000	***0.000	0.309
Os L	0.174	**0.002	0.297	*0.022	***0.000	0.297
Os R	0.280	***0.000	0.717	0.106	***0.000	0.717
Or L	0.517	**0.007	0.360	0.130	***0.000	0.360
Or R†	0.674	**0.002	0.454	0.334	***0.000	0.454
Sor L†	0.748	**0.004	0.146	0.228	***0.000	0.146
Sor R†	0.515	**0.001	0.158	0.127	***0.000	0.158
Smc L†	0.057	***0.000	*0.044	**0.001	***0.000	*0.044
Smc R	**0.004	***0.000	*0.030	***0.000	***0.000	*0.030
Ecm L	0.985	**0.003	0.126	0.444	***0.000	0.126
Ecm R	0.183	***0.000	0.130	*0.011	***0.000	0.130

Table B.93b continued

Landmark	25.0 > BMI < 30.0/ BMI < 18.5	25.0 > BMI < 30.0/ 18.5 > BMI < 25.0	25.0 > BMI < 30.0/ 30.0 > BMI	30.0 > BMI/ BMI < 18.5	30.0 > BMI/ 18.5 > BMI < 25.0	30.0 > BMI/ 25.0 > BMI < 30.0
Ft L†	**0.008	***0.000	0.220	***0.000	**0.001	0.220
Ft R†	*0.020	**0.002	0.116	**0.001	**0.001	0.116
Fmt L†	*0.033	**0.005	0.685	**0.008	**0.004	0.685
Fmt R†	0.064	***0.000	0.650	*0.015	***0.000	0.650
Fmo L	0.168	*0.028	0.257	*0.018	***0.000	0.257
Fmo R†	0.453	*0.015	0.892	0.287	***0.000	0.892
Ec L†	***0.000	**0.005	0.912	***0.000	*0.012	0.912
Ec R†	**0.005	**0.001	0.881	**0.005	**0.006	0.881
Mz L	*0.032	***0.000	*0.026	***0.000	***0.000	*0.026
Mz R	*0.039	***0.000	0.062	**0.001	***0.000	0.062
Zm L	0.101	**0.001	*0.015	**0.001	***0.000	*0.015
Zm R	*0.025	***0.000	*0.028	***0.000	***0.000	*0.028
Ol L	*0.024	***0.000	0.197	**0.002	***0.000	0.197
Ol R†	0.149	*0.012	0.069	**0.009	**0.001	0.069
Ju L	*0.038	***0.000	*0.017	***0.000	***0.000	*0.017
Ju R†	0.202	***0.000	**0.005	**0.006	***0.000	**0.005
Zy L	**0.009	***0.000	0.179	***0.000	***0.000	0.179
Zy R	**0.001	***0.000	0.153	***0.000	***0.000	0.153
Sgl L†	**0.001	***0.000	0.726	**0.002	**0.006	0.726
Sgl R	0.318	**0.001	*0.032	**0.005	***0.000	*0.032
Cdl L	*0.022	***0.000	0.702	0.311	0.218	0.702
Cdl R	0.348	**0.003	0.386	0.062	***0.000	0.386

† Games Howell

* Statistically significant at level $p < 0.05$ ** Statistically significant at level $p < 0.01$ *** Statistically significant at level $p < 0.001$

Table B.94 - Results of Wilcoxon paired-samples and paired-samples t-tests

Anatomical landmark	<i>n</i>	Left	Right	Δ	<i>Z</i>	Sig. (2-tailed)
Nasio-labial ridge	285	13.8036	13.7118	-0.0918	-1.502	0.133
Nasomaxillofrontale	320	7.2165	6.9254	-0.2911	-6.036	***0.000
Maxillofrontale	320	8.4933	8.6523	0.1590	-1.957	0.050
Mid-nasomaxillare	310	3.7102	3.7280	0.0178	-0.481	0.630
Nasomaxillare	317	4.5251	4.8197	0.2946	-6.031	***0.000
Alare	320	9.4415	9.5541	0.1126	-2.178	*0.029
Lateral nostril	320	13.6762	13.6646	-0.0116	-0.234	0.815
Supracanine	276	12.7523	12.8838	0.1315	-2.711	**0.007
Canine fossa	309	13.2291	13.4296	0.2005	-1.894	0.058
Frontal eminence	318	5.3513	5.1275	-0.2238	-5.768	***0.000
Lateral frontal	319	6.5734	6.5175	-0.0559	-1.524	0.127
Supraorbital	319	8.2012	7.9976	-0.2036	-5.197	***0.000
Orbitale superius^	320	9.1189	9.1467	0.0278	-0.533	0.594
Orbitale	320	7.5492	7.4026	-0.1466	-3.050	**0.002
Suborbital	320	7.0265	6.8217	-0.2048	-4.183	***0.000
Submaxillar curvature	300	31.0907	30.8977	-0.1930	-1.973	*0.049
Ectomolare	225	33.4990	33.7179	0.2189	-1.007	0.314
Frontotemporale	319	6.8464	6.8829	0.0365	-0.711	0.477
Frontomalare temporale	320	7.6682	7.5103	-0.1579	-2.185	*0.029
Frontomalare orbitale	319	8.7363	8.5383	-0.1980	-2.580	*0.010
Ectoconchion	320	6.1113	6.2734	0.1621	-3.281	**0.001
Mid-zygomatic	320	10.0712	10.1736	0.1024	-3.183	**0.001
Zygomaxillare	319	15.2239	14.8297	-0.3942	-5.420	***0.000
Occlusal line^	226	25.9123	25.8903	-0.0220	0.235	0.815
Jugale	283	10.5442	10.6975	0.1533	-3.306	**0.001
Zygion	190	8.8511	9.2317	0.3806	-5.295	***0.000
Supraglenoid^	166	13.2119	13.2867	0.0748	-0.586	0.559
Condylion laterale^	151	15.3360	15.5725	0.2365	-1.232	0.220

^ paired-samples t-test

* Statistically significant at level $p < 0.05$, and ** $p < 0.01$

Table B.95 - Mean facial soft tissue thicknesses (mm) for males (20.0 > BMI < 25.0) compared to similar studies conducted by Guyomarc'h (2011) (PG), De Greef *et al.* (2006) (SDG), and Bulut *et al.* (2014) (OB)

Reference study	NT	PG	SDG	OB	NT	PG	SDG	OB	NT	PG	SDG	OB	NT	PG	SDG	OB	NT	PG	SDG	OB
Population	Europ.	French	Belgian	Turkish	Europ.	French	Belgian	Turkish	Europ.	French	Belgian	Turkish	Europ.	French	Belgian	Turkish	Europ.	French	Belgian	Turkish
Age (years)	18-29	18-29	18-29	18-29	30-39	30-39	30-39	30-39	40-49	40-49	40-49	40-49	50-59	50-59	50-59	50-59	> 60	> 60	> 60	> 60
<i>n</i>	21-31	10-28	120-149	32	8-13	4-14	24-37	32	5-7	10-21	14-24	32	3-9	4-16	8-18	32	3-10	12-30	1-13	32
M (Sg)	4.6		4.1	4.0	4.7		4.1	4.6	4.2		4.5	4.9	4.9		4.6	4.7	5.1		4.3	4.7
G	5.4	5.9	5.0	6.4	5.5	6.1	4.7	6.5	4.8	5.9	5.1	7.0	5.3	6.3	5.5	7.1	5.5	6.3	5.2	7.0
N	8.4	8.5	5.9	7.2	8.5	8.6	5.6	7.6	7.5	8.2	6.4	7.3	8.5	8.4	6.8	8.0	8.5	8.5	6.3	8.1
Rhi (End of nasal)	3.6	2.8	2.8	3.0	3.6	2.9	2.7	3.0	4.1	3.1	3.1	3.8	3.4	3.3	2.7	3.9	4.7	3.3	3.2	4.0
Mp	14.5	14.0	11.2	14.2	14.3	13.9	10.6	12.9	13.7	13.6	9.7	13.6	13.3	14.3	10.4	12.7	13.8	12.6	9.0	12.8
Pr (Upper lip margin)	13.3	15.3	11.0	13.9	12.8	15.4	9.8	12.4	11.2	14.8	10.6	13.4	11.4	14.0	9.8	12.0	11.7	13.3	9.4	11.5
Nlr	15.8		11.1	13.2	15.3		10.8	12.9	13.5		10.4	12.6	14.7		10.4	12.7	14.9		9.0	12.1
Nmf (Lateral glabella)	8.1		6.0	6.4	8.1		5.5	6.7	7.3		6.6	5.7	7.2		6.0	5.3	7.4		6.6	5.4
Nm	4.8	5.2			4.4	4.8			4.5	4.7			4.9	5.1			5.3	4.4		
Lno	14.1		10.1	11.0	14.7		9.2	10.0	12.5		9.6	9.8	13.1		9.7	9.4	12.8		10.2	9.3
Sc	14.3	14.3	10.4	11.6	14.7	16.1	9.7	11.0	12.0	13.9	9.9	10.8	13.6	13.5	9.4	11.0	13.5	12.7	9.2	10.0
Fe	5.1		4.1	4.3	5.4		4.1	4.9	5.0		4.7	4.9	5.4		4.6	4.7	6.1		4.5	4.6
So (Superciliare)	7.3	7.4	5.1	6.7	7.8	7.3	5.0	7.8	8.1	7.6	5.3	7.6	8.4	7.8	5.8	7.2	9.0	7.8	5.5	7.2
Or	6.4	6.3			6.8	6.3			6.7	6.6			6.8	6.7			7.5	6.5		
Sor	5.7		8.3	5.8	6.7		8.4	6.3	6.0		9.7	6.4	6.3		9.0	6.7	6.6		10.5	7.3
Ecm (Supra-M2)	31.3	29.7	25.0	28.5	33.3	30.8	24.1	28.5	32.1	32.0	24.9	28.4	35.0	34.2	23.7	28.0	33.9	33.5	28.0	28.4
Fmt	7.2	9.7			7.9	9.3			7.4	8.6			7.6	8.4			7.0	8.1		
Mz (Zygomatic, lateral orbit)	8.0		7.4	7.7	8.9		7.3	8.6	8.1		8.1	9.4	8.8		8.0	8.8	8.5		7.8	9.2
Ju	9.0	9.3			9.8	9.0			9.1	9.2			10.1	9.3			9.1	9.4		
Zy (Zygomatic arch)	7.8	7.8	5.7	7.7	9.5	7.5	5.8	8.3	9.7	7.9	6.1	8.6	7.9	8.3	6.3	7.6	8.8	7.8	7.8	7.2
Sgl	13.3		9.8	13.0	13.9		8.8	14.0	14.5		10.8	15.9	13.0		9.5	15.5	14.8		9.1	14.5
Cdl (Condylion)	15.9	14.3			17.8	15.1			17.7	15.5			16.6	18.2			15.4	15.2		

Table B.96 - Mean facial soft tissue thicknesses (mm) for females (20.0 > BMI < 25.0) compared to studies conducted by Guyomarc'h (2011) (PG), De Greef *et al.* (2006) (SDG), and Bulut *et al.* (2014) (OB)

Reference study	NT	PG	SDG	OB	NT	PG	SDG	OB	NT	PG	SDG	OB	NT	PG	SDG	OB	NT	PG	SDG	OB
Population	Europ.	French	Belgian	Turkish	Europ.	French	Belgian	Turkish	Europ.	French	Belgian	Turkish	Europ.	French	Belgian	Turkish	Europ.	French	Belgian	Turkish
Age (years)	18-29	18-29	18-29	18-29	30-39	30-39	30-39	30-39	40-49	40-49	40-49	40-49	50-59	50-59	50-59	50-59	> 60	> 60	> 60	> 60
<i>n</i>	21-31	10-28	120-149	32	8-13	4-14	24-37	32	5-7	10-21	14-24	32	3-9	4-16	8-18	32	3-10	12-30	1-13	32
M (Sg)	4.4		3.9	3.7	3.7		4.1	4.3	4.3		4.3	4.1	4.0		4.3	4.5	4.4		4.4	4.4
G	5.1	5.6	4.9	5.7	5.0	5.8	4.9	6.5	5.6	6.2	4.8	6.5	5.9	6.0	4.8	7.0	6.2	6.1	5.3	7.0
N	7.0	7.4	5.9	7.1	6.7	7.2	6.2	7.2	7.4	6.9	6.3	7.0	7.6	6.9	6.2	7.4	7.7	7.1	7.2	7.7
Rhi (End of nasal)	2.9	2.4	2.5	2.5	2.8	2.2	2.5	2.4	3.1	2.3	2.5	2.4	2.9	2.8	2.6	3.7	3.4	2.7	2.5	3.8
Mp	12.2	12.4	9.8	12.2	10.5	11.2	9.2	10.6	11.2	12.1	8.5	11.3	11.1	10.9	8.1	10.9	11.1	10.7	8.0	10.6
Pr (Upper lip margin)	11.8	13.2	10.0	11.1	9.6	12.1	9.4	10.2	9.1	13.8	9.2	10.4	9.9	12.4	9.1	11.3	9.0	12.6	9.9	10.9
Nlr	12.7		9.5	11.1	11.1		9.4	10.1	11.8		8.7	11.1	11.7		8.4	10.6	11.0		8.4	11.1
Nmf (Lateral glabella)	6.3		5.7	5.1	5.7		5.5	5.0	6.1		5.6	5.2	5.9		5.5	5.3	6.2		6.1	5.3
Nm	4.1	4.8			4.1	3.9			4.4	4.3			3.7	4.8			4.1	4.1		
Lno	12.5		9.5	9.2	11.7		8.8	8.9	12.8		9.2	8.2	13.1		8.4	8.6	13.0		9.6	8.5
Sc	12.5	12.8	9.5	9.1	10.5	11.2	8.4	8.8	10.8	12.4	8.3	9.4	10.8	11.0	8.1	8.6	10.8	11.4	8.1	9.4
Fe	4.7		3.9	3.8	4.3		4.0	4.3	4.8		4.1	4.4	4.5		4.3	4.6	5.0		4.6	4.5
So (Superciliare)	7.1	6.6	5.4	6.0	6.6	6.8	5.2	6.3	7.2	6.8	5.3	7.1	7.7	6.9	5.3	7.2	8.2	7.6	5.5	6.6
Or	7.0	5.7			6.3	5.2			7.2	5.9			7.2	6.4			7.7	6.6		
Sor	6.3	6.5	9.4	5.5	5.5		9.3	6.1	6.5		10.0	6.3	6.3		9.1	6.3	6.4		10.4	6.8
Ecm (Supra-M2)	31.1	30.4	26.6	26.8	30.6	29.1	25.6	27.5	32.5	29.5	26.0	27.7	34.1	29.1	27.2	27.8	31.7	34.2	27.1	27.0
Fmt	6.6	8.6			6.2	7.7			6.7	8.0			6.8	7.7			6.4	7.3		
Mz (Zygomatic, lateral orbit)	10.6		10.0	9.7	9.4		9.7	9.6	10.3		9.5	11.5	10.4		9.9	12.9	10.1		9.7	10.1
Ju	10.8	10.5			9.5	9.8			10.5	10.6			10.6	9.4			10.0	10.7		
Zy (Zygomatic arch)	8.9	8.8	6.9	8.2	7.7	7.6	6.8	8.6	9.0	7.9	7.0	9.5	8.2	7.6	6.8	10.5	8.6	7.8	6.5	7.1
Sgl	11.6		9.6	11.0	11.6		8.8	12.6	12.3		9.2	14.6	11.6		8.6	15.4	13.4		9.6	13.4
Cdl (Condylion)	14.0	14.6			13.8	13.2			14.2	11.4			14.0	13.9			14.5	15.2		

Table B.97 - Mean facial soft tissue thicknesses (mm) for males (25.0 > BMI < 30.0) compared to studies conducted by Guyomarc'h (2011) (PG) and De Greef *et al.* (2006) (SDG)

Reference study	NT	PG	SDG	NT	PG	SDG	NT	PG	SDG	NT	PG	SDG	NT	PG	SDG
Population	European	French	Belgian	European	French	Belgian	European	French	Belgian	European	French	Belgian	European	French	Belgian
Age (years)	18-29	18-29	18-29	30-39	30-39	30-39	40-49	40-49	40-49	50-59	50-59	50-59	> 60	> 60	> 60
<i>n</i>	4-11	4-16	21-34	5-14	4-17	25-31	3-13	7-18	19-35	5-12	18-28	17-45	3-14	19-57	6-37
M (Sg)	5.0		4.8	5.1		4.8	5.2		5.3	5.5		5.1	5.1		5.0
G	6.3	7.1	5.8	6.0	6.6	5.4	6.4	7.0	5.9	6.1	6.8	5.9	6.5	7.3	5.9
N	9.3	9.5	6.3	9.1	8.8	6.8	8.7	9.1	6.8	9.5	9.7	7.2	9.6	9.5	7.0
Rhi (End of nasal)	3.9	3.1	3.2	4.0	3.7	3.0	4.0	3.5	3.2	3.6	3.1	3.2	4.5	3.5	3.4
Mp	14.4	15.3	10.8	14.8	15.3	10.7	14.2	14.6	10.6	13.6	14.3	10.4	12.4	13.7	9.9
Pr (Upper lip margin)	13.3	16.1	10.4	13.2	16.0	10.8	12.1	14.6	10.6	11.8	14.5	10.1	11.5	15.3	9.6
Nlr	15.1		11.0	15.9		11.0	14.8		10.9	15.6		10.3	14.3		9.9
Nmf (Lateral glabella)	7.4		6.2	7.3		5.9	7.6		6.8	7.7		6.5	8.3		6.2
Nm	5.4	6.2		5.6	5.7		5.4	5.4		5.2	5.1		4.5	4.8	
Lno	15.0		10.3	14.4		10.0	15.1		10.2	15.9		10.2	14.7		9.6
Sc	14.9	16.9	10.5	14.6	15.5	10.0	13.6	14.9	10.2	13.5	14.3	10.4	12.6	14.2	9.6
Fe	5.5		5.0	5.4		4.8	5.5		5.3	5.9		5.2	5.8		5.2
So (Superciliare)	8.3	8.4	6.1	8.5	9.0	6.3	8.8	8.5	6.6	8.4	8.6	6.5	9.2	9.2	6.8
Or	6.8	7.7		7.8	8.1		7.4	7.7		7.9	7.2		8.8	8.2	
Sor	6.6		9.8	7.2		10.0	6.4		10.4	7.1		11.6	8.1		10.6
Ecm (Supra-M2)	33.7	38.5	29.4	36.3	36.5	28.7	36.6	37.8	30.8	38.1	39.3	29.2	40.3	38.9	29.6
Fmt	8.6	10.3		8.4	10.7		8.3	11.0		7.7	10.4		8.7	10.1	
Mz (Zygomatic, lateral orbit)	9.2		10.3	10.0		10.6	10.8		10.8	9.2		10.7	10.5		10.4
Ju	10.2	11.3		11.6	11.3		11.5	11.4		10.7	11.3		11.3	12.5	
Zy (Zygomatic arch)	9.2	11.4	8.4	10.1	11.1	7.9	11.9	11.6	8.1	9.9	11.6	8.1	10.0	12.1	8.3
Sgl	14.0		10.7	13.8		10.5	16.0		10.2	14.5		11.0	14.5		10.3
Cdl (Condylion)	17.6	19.2		16.8	17.2		19.4	18.4		17.7	21.2		18.0	21.4	

Table B.98 - Mean facial soft tissue thicknesses (mm) for females (25.0 > BMI < 30.0) compared to studies conducted by Guyomarc'h (2011) (PG) and De Greef *et al.* (2006) (SDG)

Reference study	NT	PG	SDG	NT	PG	SDG	NT	PG	SDG	NT	PG	SDG	NT	PG	SDG
Population	European	French	Belgian	European	French	Belgian	European	French	Belgian	European	French	Belgian	European	French	Belgian
Age (years)	18-29	18-29	18-29	30-39	30-39	30-39	40-49	40-49	40-49	50-59	50-59	50-59	> 60	> 60	> 60
<i>n</i>	3	1-12	21-29	3-6	1-11	16-20	3-7	9-18	14-21	6-10	3-15	15-41	7-14	9-39	4-43
M (Sg)	4.5		4.5	4.7		4.5	4.6		5.1	4.6		4.9	4.9		4.6
G	6.0	6.6	5.5	5.8	6.1	5.4	6.3	6.6	5.7	6.1	6.0	5.8	6.5	7.0	5.6
N	8.0	7.7	6.4	7.2	7.4	6.6	8.3	8.1	6.7	7.8	6.9	7.2	8.2	8.0	7.3
Rhi (End of nasal)	3.8	2.6	3.0	2.8	2.4	3.0	3.2	2.6	2.8	3.5	2.9	2.9	3.6	3.3	2.8
Mp	11.1	12.6	9.8	12.1	11.2	8.8	11.1	11.3	9.3	11.4	10.9	9.1	11.1	11.7	8.7
Pr (Upper lip margin)	11.2	12.6	9.8	11.3	13.0	9.5	12.5	12.9	8.6	9.6	12.4	8.8	9.9	14.1	9.0
Nlr	11.3		10.0	12.4		9.3	12.0		9.4	11.9		9.3	11.6		8.9
Nmf (Lateral glabella)	7.3		5.7	5.7		6.6	7.5		5.9	5.9		6.4	6.2		6.4
Nm	4.9	5.6		3.8	4.9		4.3	5.0		4.4	4.8		4.9	5.3	
Lno	13.0		9.4	13.5		9.0	13.3		9.4	13.0		9.4	13.6		9.5
Sc	11.6	13.1	9.2	11.7	13.0	8.7	12.1	12.2	9.1	10.9	11.0	8.4	10.5	12.7	9.5
Fe	4.9		4.5	4.8		4.6	5.3		5.0	5.1		5.0	5.4		4.8
So (Superciliare)	7.7	8.1	6.1	8.0	7.8	6.3	8.4	8.0	6.3	8.6	6.9	6.5	8.7	8.5	6.5
Or	6.7	7.8		7.3	8.1		7.9	8.1		7.8	6.4		9.2	8.8	
Sor	6.8		10.3	7.4		10.5	7.1		10.9	7.3		11.1	8.1		10.4
Ecm (Supra-M2)	32.5	35.1	29.2	33.3	33.8	28.7	34.4	35.1	29.7	33.3	29.1	29.2	37.9	38.7	29.0
Fmt	8.0	9.5		7.6	8.6		8.2	10.1		7.5	7.7		9.0	8.6	
Mz (Zygomatic, lateral orbit)	12.2		12.6	11.1		12.5	11.4		12.4	11.1		12.4	12.1		12.1
Ju	12.6	13.4		11.0	11.5		11.9	12.4		11.4	9.4		12.2	12.3	
Zy (Zygomatic arch)	11.5	12.3	8.7	10.9	10.9	8.7	10.7	11.8	8.9	10.2	7.6	8.4	10.3	12.2	8.7
Sgl	12.6		10.3	13.3		9.9	13.8		10.2	13.7		10.4	14.0		10.9
Cdl (Condylion)	15.9	17.6		17.2	21.8		15.6	16.8		16.6	13.9		16.8	16.8	

Table B.99 - Mean facial soft tissue thicknesses (mm) for both sexes (BMI < 20.0) compared to study conducted by Valencia Caballero (2007)

Reference study	Current	Valencia
Population	European	Spanish
Age (years)	18-84	21-84
<i>n</i>	19-24	8
Metopion (Supraglabella)	4.0	4.0
Glabella	5.1	4.5
Nasion	7.2	5.7
Rhinion	3.2	2.9
Subspinale (Subnasal)	13.9	10.5
Prosthion (Supradentale)	11.0	8.8
Frontal eminence L	4.5	4.4
Frontal eminence R	4.4	4.5
Supraorbital L	6.9	6.1
Supraorbital R	6.7	6.4
Suborbital L (Infraorbital)	6.4	7.9
Suborbital R (Infraorbital)	6.1	7.7
Ectomolare L (Supramolare, Supra M ²)	30.7	14.0
Ectomolare R (Supramolare, Supra M ²)	30.1	14.1
Mid-zygomatic L (Lateral orbit)	9.2	7.2
Mid-zygomatic R (Lateral orbit)	9.4	7.2
Occlusal line L	22.6	14.5
Occlusal line R	22.5	14.8
Zygion L	7.2	7.7
Zygion R	7.4	7.8
Supraglenoid L	11.4	7.7
Supraglenoid R	11.6	7.6

Table B.100 - Mean facial soft tissue thicknesses (mm) for both sexes (20.0 > BMI < 25.0) compared to study conducted by Valencia Caballero (2007)

Reference study	Current	Valencia
Population	European	Spanish
Age (years)	18-84	21-84
<i>n</i>	94-143	12-16
Metopion (Supraglabella)	4.4	4.5
Glabella	5.4	5.3
Nasion	7.7	5.6
Rhinion	3.4	3.0
Subspinale (Subnasal)	14.5	9.9
Prosthion (Supradentale)	11.4	8.5
Frontal eminence L	5.0	5.0
Frontal eminence R	4.8	4.8
Supraorbital L	7.7	6.9
Supraorbital R	7.5	6.8
Suborbital L (Infraorbital)	6.3	7.6
Suborbital R (Infraorbital)	6.0	7.8
Ectomolare L (Supramolare, Supra M ²)	31.9	16.8
Ectomolare R (Supramolare, Supra M ²)	32.1	17.1
Mid-zygomatic L (Lateral orbit)	9.2	8.8
Mid-zygomatic R (Lateral orbit)	9.4	8.9
Occlusal line L	27.7	17.9
Occlusal line R	24.8	18.0
Zygion L	8.2	8.7
Zygion R	8.7	8.9
Supraglenoid L	12.6	10.0
Supraglenoid R	13.0	10.3

Table B.101 - Mean facial soft tissue thicknesses (mm) for both sexes (25.0 > BMI < 30.0) compared to study conducted by Valencia Caballero (2007)

Reference study	Current	Valencia
Population	European	Spanish
Age (years)	18-84	21-84
<i>n</i>	47-99	13
Metopion (Supraglabella)	5.0	5.9
Glabella	6.3	6.6
Nasion	8.7	6.6
Rhinion	3.8	3.0
Subspinale (Subnasal)	14.8	11.1
Prosthion (Supradentale)	11.7	10.3
Frontal eminence L	5.6	5.2
Frontal eminence R	5.4	5.3
Supraorbital L	8.6	7.6
Supraorbital R	8.5	7.6
Suborbital L (Infraorbital)	7.4	8.8
Suborbital R (Infraorbital)	7.2	8.9
Ectomolare L (Supramolare, Supra M ²)	35.6	18.4
Ectomolare R (Supramolare, Supra M ²)	35.9	18.7
Mid-zygomatic L (Lateral orbit)	10.6	10.4
Mid-zygomatic R (Lateral orbit)	10.7	10.1
Occlusal line L	27.3	19.7
Occlusal line R	27.5	19.6
Zygion L	9.9	9.8
Zygion R	10.6	9.7
Supraglenoid L	13.9	11.1
Supraglenoid R	14.0	11.5

Table B.102 - Mean facial soft tissue thicknesses (mm) for males (BMI < 20.0) compared to studies conducted by Valencia Caballero (2007) and Codinha (2009, 2010)

Reference study	Current	Valencia	Valencia	Codinha
Population	European	Spanish	Spanish	Portuguese
Age (years)	18-79	21-84	20-69	26-91
<i>n</i>	3-4	5-8	15	19
Metopion (Supraglabella)	4.5	3.8	4.6	3.2
Glabella	4.9	4.6	5.5	4.9
Nasion	7.7	5.5	5.2	5.3
Rhinion	3.2	2.8	2.7	2.5
Subspinale (Subnasal)	14.6	10.6	12.5	
Mid-philtrum	12.5			10.2
Prosthion (Supradentale)	11.5	9.3	9.3	10.9
Supracanine L	12.8			9.2
Supracanine R	13.0			
Frontal eminence L	5.2	6.1		
Frontal eminence R	4.9	4.5		
Supraorbital L	6.7	6.0		6.0
Supraorbital R	6.8	9.0		
Suborbital L (Infraorbital)	6.5	13.2		6.0
Suborbital R (Infraorbital)	6.6	8.5		
Ecm L (Supramolare, Supra M ²)	30.8	4.2		22.0
Ecm R (Supramolare, Supra M ²)	30.7	13.1		
Mid-zygomatic L (Lateral orbit)	8.2	9.0		8.7
Mid-zygomatic R (Lateral orbit)	8.5	8.7		
Occlusal line L	24.1	13.1		18.0
Occlusal line R	23.0	14.5		
Zygion L	7.2	8.1		5.7
Zygion R	7.3	9.2		
Supraglenoid L	11.9	12.9		
Supraglenoid R	11.0	8.1		

Table B.103 - Mean facial soft tissue depths (mm) for males (20.0 > BMI < 25.0) compared to studies conducted by Valencia Caballero (2007) and Codinha (2009, 2010)

Reference study	Current	Valencia	Valencia	Codinha
Population	European	Spanish	Spanish	Portuguese
Age (years)	18-79	21-84	20-69	26-91
<i>n</i>	43-66	6-8	25	27
Metopion (Supraglabella)	4.7	4.6	5.3	4.4
Glabella	5.6	5.7	6.9	5.8
Nasion	8.3	5.6	6.0	5.8
Rhinion	3.8	3.4	3.3	3.0
Subspinale (Subnasal)	15.8	9.8	12.8	
Mid-philtrum	14.0			11.1
Prosthion (Supradentale)	12.4	9.4	11.0	
Supracanine L	13.7			10.3
Supracanine R	13.9			
Frontal eminence L	5.4	6.5		
Frontal eminence R	5.2	5.0		
Supraorbital L	7.9	7.5		7.4
Supraorbital R	7.8	6.7		
Suborbital L (Infraorbital)	6.1	14.4		8.1
Suborbital R (Infraorbital)	6.0	7.5		
Ecm L (Supramolare, Supra M ²)	32.3	5.0		23.4
Ecm R (Supramolare, Supra M ²)	32.5	15.7		
Mid-zygomatic L (Lateral orbit)	8.2	8.5		11.0
Mid-zygomatic R (Lateral orbit)	8.4	8.8		
Occlusal line L	26.1	16.3		20.4
Occlusal line R	25.9	16.6		
Zygion L	8.3	9.6		7.9
Zygion R	8.7	8.8		
Supraglenoid L	13.5	12.4		
Supraglenoid R	14.0	9.8		

Table B.104 - Mean facial soft tissue depths (mm) for males (25.0 > BMI < 30.0) compared to studies conducted by Valencia Caballero (2007) and Codinha (2009, 2010)

Reference study	Current	Valencia	Valencia	Codinha
Population	European	Spanish	Spanish	Portuguese
Age (years)	18-79	21-84	20-69	26-91
<i>n</i>	24-59	4-9	3	57
Metopion (Supraglabella)	5.2	6.0	6.1	4.8
Glabella	6.3	6.4	8.9	6.9
Nasion	9.3	7.0	8.0	6.6
Rhinion	4.0	3.4	3.2	3.7
Subspinale (Subnasal)	15.7	11.7	12.7	
Mid-philtrum	13.9		11.1	12.2
Prosthion (Supradentale)	12.4	11.6		
Supracanine L	13.7			11.2
Supracanine R	13.7			
Frontal eminence L	5.8	6.7		
Frontal eminence R	5.6	4.6		
Supraorbital L	8.7	6.8		8.5
Supraorbital R	8.6	6.7		
Suborbital L (Infraorbital)	7.3	13.2		10.0
Suborbital R (Infraorbital)	7.2	6.9		
Ecm L (Supramolare, Supra M ²)	36.5	6.9		27.0
Ecm R (Supramolare, Supra M ²)	36.7	13.9		
Mid-zygomatic L (Lateral orbit)	10.0	8.2		12.3
Mid-zygomatic R (Lateral orbit)	10.0	8.6		
Occlusal line L	28.3	15.1		24.6
Occlusal line R	29.0	15.5		
Zygion L	9.9	11.0		11.2
Zygion R	10.4	8.3		
Supraglenoid L	14.2	13.4		
Supraglenoid R	14.3	10.9		

Table B.105 - Mean facial soft tissue thicknesses (mm) for females (BMI < 20.0) compared to studies conducted by Valencia Caballero (2007) and Codinha (2009, 2010)

Reference study	Current	Valencia	Valencia	Codinha
Population	European	Spanish	Spanish	Portuguese
Age (years)	18-84	21-84	20-69	26-91
<i>n</i>	16-20	3-6	12	9
Metopion (Supraglabella)	3.9	4.3	4.8	2.4
Glabella	5.1	4.2	6.1	4.6
Nasion	7.1	6.1	5.8	4.9
Rhinion	3.1	3.0	2.8	2.2
Subspinale (Subnasal)	13.8			
Mid-philtrum	11.5	10.2	14.8	7.8
Prosthion (Supradentale)	10.9	8.0	11.8	
Supracanine L	11.2			8.4
Supracanine R	11.7			
Frontal eminence L	4.4	6.5		
Frontal eminence R	4.3	4.0		
Supraorbital L	6.9	7.1		6.5
Supraorbital R	6.7	6.2		
Suborbital L (Infraorbital)	6.4	11.9		5.3
Suborbital R (Infraorbital)	6.1	7.2		
Ecm L (Supramolare, Supra M ²)	30.7	4.6		18.3
Ecm R (Supramolare, Supra M ²)	30.0	14.6		
Mid-zygomatic L (Lateral orbit)	9.4	7.0		9.1
Mid-zygomatic R (Lateral orbit)	9.5	6.3		
Occlusal line L	22.3	14.7		14.7
Occlusal line R	22.3	14.5		
Zygion L	7.2	7.2		5.2
Zygion R	7.5	6.8		
Supraglenoid L	11.3	11.2		
Supraglenoid R	11.7	7.4		

Table B.106 - Mean facial soft tissue depths (mm) for females (20.0 > BMI < 25.0) compared to studies conducted by Valencia Caballero (2007) and Codinha (2009, 2010)

Reference study	Current	Valencia	Valencia	Codinha
Population	European	Spanish	Spanish	Portuguese
Age (years)	18-84	21-84	20-69	26-91
<i>n</i>	51-77	6-8	34	11
Metopion (Supraglabella)	4.2	4.4	5.5	3.9
Glabella	5.5	5.0	6.6	6.3
Nasion	7.2	5.7	6.3	5.6
Rhinion	3.0	2.6	3.4	2.2
Subspinale (Subnasal)	13.3	9.9	13.8	
Mid-philtrum	11.3			10.5
Prosthion (Supradentale)	10.1	7.7	11.6	
Supracanine L	11.2			8.7
Supracanine R	11.1			
Frontal eminence L	4.7	7.2		
Frontal eminence R	4.5	4.5		
Supraorbital L	7.4	7.8		7.3
Supraorbital R	7.2	7.1		
Suborbital L (Infraorbital)	6.4	12.3		7.8
Suborbital R (Infraorbital)	6.0	7.8		
Ecm L (Supramolare, Supra M ²)	31.6	5.7		22.2
Ecm R (Supramolare, Supra M ²)	31.8	17.8		
Mid-zygomatic L (Lateral orbit)	10.1	8.8		11.4
Mid-zygomatic R (Lateral orbit)	10.2	8.7		
Occlusal line L	23.5	18.0		18.2
Occlusal line R	23.7	19.1		
Zygion L	8.2	11.1		8.9
Zygion R	8.7	8.7		
Supraglenoid L	11.8	16.3		
Supraglenoid R	12.1	10.2		

Table B.107 - Mean facial soft tissue depths (mm) for females (25.0 > BMI < 30.0) compared to studies conducted by Valencia Caballero (2007) and Codinha (2009, 2010)

Reference study	Current	Valencia	Valencia	Codinha
Population	European	Spanish	Spanish	Portuguese
Age (years)	18-84	21-84	20-69	26-91
<i>n</i>	23-40	4-8	11	28
Metopion (Supraglabella)	4.7	5.8	5.5	4.9
Glabella	6.2	6.9	6.7	6.9
Nasion	7.9	5.8	6.3	5.9
Rhinion	3.4	2.2	3.4	3.0
Subspinale (Subnasal)	13.5	9.9	13.8	
Mid-philtrum	11.3			10.4
Prosthion (Supradentale)	10.6	7.5	12.2	
Supracanine L	11.2			10.4
Supracanine R	11.1			
Frontal eminence L	5.3	8.0		
Frontal eminence R	5.0	5.5		
Supraorbital L	8.5	9.9		8.3
Supraorbital R	8.3	8.0		
Suborbital L (Infraorbital)	7.6	17.0		10.2
Suborbital R (Infraorbital)	7.4	9.7		
Ecm L (Supramolare, Supra M ²)	34.5	6.4		26.9
Ecm R (Supramolare, Supra M ²)	34.9	20.4		
Mid-zygomatic L (Lateral orbit)	11.4	10.4		13.0
Mid-zygomatic R (Lateral orbit)	11.7	11.2		
Occlusal line L	26.1	20.3		22.8
Occlusal line R	25.5	21.6		
Zygion L	10.0	11.7		11.2
Zygion R	10.9	10.5		
Supraglenoid L	13.6	19.3		
Supraglenoid R	13.6	11.2		

Table B.108 - Mean facial soft tissue depths (mm) for males and females (BMI < 20.0, 20.0 > BMI < 25.0, and 25.0 > BMI < 30.0) compared to Bellmann *et al.* (2007)

MALES		BMI < 19.0		20.0 > BMI < 25.0		25.0 > BMI	
Reference study		Current	Bellmann	Current	Bellmann	Current	Bellmann
Population		European					
Age (years)		19-84	16-89	19-84	16-89	19-84	16-89
<i>n</i>		1-2	0-4	42-65	5-35	24-59	6-38
M (Supraglabella)		4.3	3.4	4.7	3.8	5.2	4.6
Glabella		4.7	5.2	5.3	5.1	6.3	6.0
Nasion		7.6	6.2	8.3	6.4	9.3	7.1
Rhi (End of nasals)		3.2	1.3	3.8	2.3	4.0	2.1
Mid-philtrum		13.3	12.7	14.0	13.1	13.9	14.8
Pr (Upper lip margin)		12.4		12.4	11.5	12.4	14.0
Frontal eminence L		5.1	3.8	5.4	4.2	5.8	5.3
Frontal eminence R		4.5	3.9	5.2	4.2	5.6	5.3
So L (Supraorbitale)		6.8	5.6	7.9	5.6	8.7	6.5
So R (Supraorbitale)		7.0	5.6	7.8	5.6	8.6	6.7
Sor L (Suborbitale)		5.7	4.4	6.1	5.1	7.3	7.1
Sor R (Suborbitale)		6.3	4.2	6.0	4.9	7.2	7.3
Mz L (Lateral orbit)		7.2	5.2	8.2	5.5	10.0	7.6
Mz R (Lateral orbit)		7.5	5.2	8.4	5.2	10.0	7.3
Occlusal line L		24.2		26.1	20.7	28.3	28.8
Occlusal line R		23.0		25.9	22.6	29.0	29.6
Zy L (Zygomatic arch)			8.3	8.3	7.5	9.9	11.4
Zy R (Zygomatic arch)		6.7	8.0	8.7	7.6	10.4	11.0
Supraglenoid L			12.3	13.5	13.1	14.2	17.2
Supraglenoid R		10.8	11.6	13.9	14.1	14.3	17.4
FEMALES		BMI < 19.0		20.0 > BMI < 25.0		25.0 > BMI	
<i>n</i>		8-10	1-9	57-87	5-31	23-40	0-18
M (Supraglabella)		3.9	3.8	4.2	4.4	4.7	5.7
Glabella		5.0	4.6	5.5	5.1	6.2	6.2
Nasion		7.1	5.3	7.2	5.8	7.9	6.6
Rhi (End of nasals)		3.0	1.9	3.0	2.2	3.4	2.9
Mid-philtrum		11.6	12.6	11.3	13.5	11.3	13.4
Pr (Upper lip margin)		11.4	11.7	10.2	11.0	10.6	12.5
Frontal eminence L		4.1	4.5	4.7	4.6	5.3	6.1
Frontal eminence R		3.8	4.3	4.6	4.8	5.0	6.0
So L (Supraorbitale)		6.6	5.1	7.4	5.5	8.5	6.3
So R (Supraorbitale)		6.4	5.0	7.1	5.4	8.3	6.6
Sor L (Suborbitale)		6.7	5.7	6.3	5.7	7.6	11.2
Sor R (Suborbitale)		6.4	5.5	6.0	5.9	7.4	10.9
Mz L (Lateral orbit)		9.6	6.0	10.0	6.2	11.4	10.7
Mz R (Lateral orbit)		9.7	6.2	10.1	6.4	11.7	10.3
Occlusal line L		22.3	18.1	23.4	20.6	26.1	
Occlusal line R		22.1	17.3	23.6	23.2	25.5	
Zy L (Zygomatic arch)		6.9	7.7	8.2	8.0	10.0	15.3
Zy R (Zygomatic arch)		6.7	7.3	8.6	8.2	10.9	14.5
Supraglenoid L		10.6	10.8	11.9	11.0	13.6	19.6
Supraglenoid R		11.2	10.1	12.1	12.3	13.6	20.1

Table B.109 - Mean facial soft tissue depths (mm) for males and females (all weights) compared to Helmer (1984)

Reference study Population Age (years) <i>n</i>	Males		Females	
	Current	Helmer	Current	Helmer
	European	German	European	German
	19-81	19-81	19-81	19-81
	92-154	62	108-153	61
Metopion	5.1	5.0	4.4	4.7
Glabella	5.9	6.1	5.7	5.8
Nasion	8.9	7.5	7.5	6.5
Mid-nasal (Nasenbeinmitte)	6.3	3.5	5.3	3.0
Rhinion	4.0	2.7	3.2	2.4
Subspinale (Subnasale)	15.8	14.7	13.6	12.9
Prosthion (Labrale superius)	12.7	12.4	10.4	12.3
Supraorbital	8.5	7.3	7.7	6.7
Orbitale	7.6	5.6	7.4	5.9
Frontotemporale	7.3	5.4	6.5	5.0
Ectoconchion	6.4	5.5	6.1	5.2
Mid-zygomatic (Wangenbeinhöcker)	9.5	7.5	10.7	9.1
Zygion	9.6	5.6	9.1	5.4

Table B.110 - Mean facial soft tissue depths (mm) for both sexes, males and females (47-120 kg) compared to Werner (2009)

Reference study	Current	Werner	Current	Werner	Current	Werner
Population	European	European	European	European	European	European
Age (years)	22-60	22-60	22-60	22-60	22-60	22-60
<i>n</i>	145-231	66	58-110	31	87-121	35
Metopion (Supraglabella)	4.6	4.4	5.0	4.5	4.3	4.3
Glabella	5.7	5.0	5.9	5.0	5.6	4.9
Nasion	8.1	6.3	8.8	6.7	7.4	5.9
Rhinion (End of nasion)	3.5	2.7	3.8	3.0	3.1	2.5
Prosthion (Mid-philtrum)	11.5	9.3	12.7	10.5	10.4	8.3
Frontal eminence L	5.2	4.2	5.7	4.5	4.8	4.0
Frontal eminence R	5.0	4.2	5.5	4.5	4.6	4.0
Orbitale superius L (Supraorbital)	8.9	6.8	9.9	7.4	8.0	6.3
Orbitale superius R (Supraorbital)	9.0	6.5	9.9	7.0	8.1	5.9
Orbitale L (Suborbital)	7.4	4.2	7.4	4.2	7.4	4.2
Orbitale R (Suborbital)	7.2	4.6	7.3	4.5	7.1	4.7
Mid-zygomatic L (Zygomatic arch)	9.9	11.2	9.3	10.6	10.5	11.8
Mid-zygomatic R (Zygomatic arch)	10.1	10.5	9.5	9.7	10.6	11.2
Occlusal line L	26.0	21.4	27.8	21.9	24.5	21.0
Occlusal line R	26.2	21.4	28.1	21.5	24.5	21.3
Supraglenoid L	13.1	9.5	14.1	9.4	12.4	9.6
Supraglenoid R	13.2	8.8	14.3	8.4	12.4	9.1

**Table B.111 - Mean facial soft tissue depths (mm) for females
(BMI < 20.0, 20.0 > BMI < 25.0, and 25.0 > BMI < 30.0)
compared to Tilotta *et al.* (2009)**

Reference study	Current	Tilotta
Population	European	French
Age (years)	21-40	20-40
<i>n</i>	42-58	47
Glabella	5.2	3.7
Nasion	7.0	5.6
Rhinion (Nasale)	2.9	1.3
Subspinale (Anterior nasal spine)	13.6	9.6
Mid-philtrum (Point A)	11.4	11.3
Prosthion	10.9	10.7
Alare L	8.7	11.3
Alare R	8.8	9.8
Supracanine L (Canine)	11.4	8.6
Supracanine R (Canine)	11.5	7.6
Orbitale superius L	7.5	6.7
Orbitale superius R	7.7	6.6
Orbitale L	7.0	5.6
Orbitale R	6.7	4.9
Suborbital L (Infraorbitale)	6.4	12.9
Suborbital R (Infraorbitale)	6.0	12.9
Ectomolare L	31.0	22.1
Ectomolare R	31.1	21.5
Ectoconchion L	5.3	9.3
Ectoconchion R	5.5	4.1
Jugale L	10.2	10.8
Jugale R	10.2	9.6
Zygion L	8.3	8.1
Zygion R	8.5	7.1
Condylion laterale L	14.2	13.7
Condylion laterale R	14.4	12.9

Table B.112 - Mean facial soft tissue depths (mm) for males and females (all weights) compared to Panenková *et al.* (2012)

Reference study	Current	Panenková	Current	Panenková
Population	European	Slovakian	European	Slovakian
Age (years)	18-84	18-87	18-84	18-87
<i>n</i>	80-160	21-80	101-160	12-80
Supraglabella	6.3	5.1	5.4	4.6
Glabella	6.0	5.9	5.8	5.5
Nasion	8.9	8.0	7.5	6.9
Rhinion	4.0	2.5	3.2	2.1
Mid-philtrum	14.1	15.2	11.5	12.4
Prosthion (Upper lip margin)	12.7	12.9	10.5	11.4
Cf L (Inferior malar)	14.0	16.4	12.4	15.2
Cf R (Inferior malar)	14.4		12.5	
Supraorbital L	8.5	8.2	7.9	7.2
Supraorbital R	8.4		7.7	
Suborbital L	7.1	7.0	7.0	6.8
Suborbital R	7.0		6.7	
Ectomolare L (Supra M ²)	34.8	30.6	32.7	28.1
Ectomolare R (Supra M ²)	35.0		33.1	
Mz L (Lateral orbit)	9.5	9.0	10.7	10.0
Mz R (Lateral orbit)	9.6		10.8	
Occlusal line L	27.7	26.8	24.5	22.6
Occlusal line R	27.9		24.6	
Zygion L	9.3	9.5	8.8	9.1
Zygion R	9.9		9.5	
Supraglenoid L	14.0	13.6	12.4	11.5
Supraglenoid R	14.3		12.8	

Table B.113 - Mean facial soft tissue depths (mm) for males (20.0 > BMI < 30.0) compared to African-American males of Manhein *et al.*'s (2000) study

Reference study	Current	Manhein	Current	Manhein
Population	European	African-American	European	African-American
Age (years)	19-34	19-34	35-45	35-45
<i>n</i>	19-27	19	9-10	3
Glabella	5.4	5.2	5.3	5.3
Nasion	8.4	6.6	8.0	5.7
Rhinion (End of nasals)	3.6	2.2	3.8	1.7
Mid-philtrum	14.5	13.0	13.3	11.0
Lateral nostril L	14.0	9.2	14.3	10.3
Lateral nostril R	14.2		14.0	
Supracanine L	14.2	12.8	13.4	10.3
Supracanine R	14.5		13.4	
Supraorbital L (Superior eye orbit)	7.4	6.4	8.1	6.3
Supraorbital R (Superior eye orbit)	7.2		7.9	
Suborbital L (Inferior eye orbit)	5.6	5.8	6.6	7.0
Suborbital R (Inferior eye orbit)	5.7		6.8	
Ecm L (Supra M ² , posterior maxilla)	31.2	28.2	34.0	27.3
Ecm R (Supra M ² , posterior maxilla)	31.3		33.6	
Ectoconchion L (Lateral eye orbit)	5.0	4.8	6.2	3.7
Ectoconchion R (Lateral eye orbit)	5.1		6.6	
Mz L (Zygomatic, anterior zygoma)	7.9	8.4	8.4	6.3
Mz R (Zygomatic, anterior zygoma)	8.1		8.8	
Supraglenoid L (Root of zygoma)	13.1	7.4	13.9	5.7
Supraglenoid R (Root of zygoma)	13.5		14.3	

Table B.114 - Mean facial soft tissue depths (mm) for females (20.0 > BMI < 30.0) compared to African-American females of Manhein et al.'s (2000) study

Reference study	Current	Manhein	Current	Manhein	Current	Manhein
Population	European	African-American	European	African-American	European	African-American
Age (years)	19-34	19-34	35-45	35-45	46-55	45-55
<i>n</i>	22-31	18	18-22	21	5-11	5
Glabella	5.2	4.6	5.3	4.5	5.8	4.8
Nasion	7.1	6.0	7.0	5.2	7.3	6.0
Rhinion (End of nasals)	2.9	1.7	3.0	1.5	3.0	2.0
Mid-philtrum	11.7	9.2	11.0	8.8	11.2	8.2
Lateral nostril L	12.2	8.4	12.2	8.4	12.6	8.4
Lateral nostril R	12.0		12.5		12.8	
Supracanine L	11.8	10.0	10.6	9.6	10.2	9.0
Supracanine R	11.7		10.8		10.2	
Supraorbital L (Superior eye orbit)	7.0	6.1	7.1	6.0	7.7	5.8
Supraorbital R (Superior eye orbit)	6.8		6.9		7.3	
Suborbital L (Inferior eye orbit)	6.5	6.2	5.9	6.9	6.5	5.8
Suborbital R (Inferior eye orbit)	6.1		5.7		6.2	
Ecm L (Supra M ² , posterior maxilla)	31.0	26.6	31.3	26.8	32.4	26.8
Ecm R (Supra M ² , posterior maxilla)	30.9		31.3		32.7	
Ectoconchion L (Lateral eye orbit)	5.2	5.0	5.4	4.9	5.1	4.8
Ectoconchion R (Lateral eye orbit)	5.5		5.7		5.5	
Mz L (Zygomatic, anterior zygoma)	10.2	10.2	9.6	9.8	10.2	9.8
Mz R (Zygomatic, anterior zygoma)	10.3		9.7		10.3	
Supraglenoid L (Root of zygoma)	11.7	6.4	11.8	5.6	12.4	6.0
Supraglenoid R (Root of zygoma)	11.5		12.1		12.0	

Table B.115 - Mean facial soft tissue depths (mm) for males (20.0 > BMI < 30.0) compared to European-American males of Manhein et al.'s (2000) study

Reference study	Current	Manhein	Current	Manhein	Current	Manhein	Current	Manhein
Population	European	Eur.-American	European	Eur.-American	European	Eur.-American	European	Eur.-American
Age (years)	19-34	19-34	35-45	35-45	46-55	46-55	> 56	> 56
<i>n</i>	19-27	28	9-10	10	5-10	5	5-13	5
Glabella	5.4	5.0	5.3	5.5	5.2	6.0	5.4	5.6
Nasion	8.4	6.0	8.0	6.4	8.2	7.2	8.4	6.6
Rhinion (End of nasals)	3.6	1.9	3.8	2.4	3.5	1.8	4.5	2.0
Mid-philtrum	14.5	11.9	13.3	10.6	13.7	8.0	13.6	9.4
Lateral nostril L	14.0	7.5	14.3	9.8	13.1	10.4	12.6	10.8
Lateral nostril R	14.2		14.0		13.1		12.7	
Supracanine L	14.2	11.9	13.4	10.1	13.2	10.0	13.0	9.2
Supracanine R	14.5		13.4		13.2		13.3	
So L (Superior eye orbit)	7.4	5.3	8.1	5.9	8.6	7.7	8.6	5.6
So R (Superior eye orbit)	7.2		7.9		8.4		8.6	
Suborbital L (Inferior eye orbit)	5.6	5.8	6.6	6.2	6.7	6.8	6.4	5.0
Suborbital R (Inferior eye orbit)	5.7		6.8		6.5		6.0	
Ecm L (Supra M ² , post. maxilla)	31.2	28.5	34.0	24.6	33.2	28.2	33.3	23.6
Ecm R (Supra M ² , post. maxilla)	31.3		33.6		34.5		33.4	
Ec L (Lateral eye orbit)	5.0	4.2	6.2	15.6	6.8	5.4	7.7	5.2
Ec R (Lateral eye orbit)	5.1		6.6		6.8		7.5	
Mz L (Zygomatic, ant. zygoma)	7.9	7.8	8.4	8.2	8.7	8.2	8.3	6.4
Mz R (Zygomatic, ant. zygoma)	8.1		8.8		9.0		8.3	
Sgl L (Root of zygoma)	13.1	7.8	13.9	6.6	14.5	5.4	13.5	5.2
Sgl R (Root of zygoma)	13.5		14.3		14.2		14.8	

Table B.116 - Mean facial soft tissue depths (mm) for females (20.0 > BMI < 30.0) compared to European-American females of Manhein et al.'s (2000) study

Reference study	Current	Manhein	Current	Manhein	Current	Manhein	Current	Manhein
Population	European	Eur.-American	European	Eur.-American	European	Eur.-American	European	Eur.-American
Age (years)	19-34	19-34	35-45	35-45	46-55	46-55	> 56	> 56
<i>n</i>	22-31	52	18-22	15	5-11	6	7-20	9
Glabella	5.2	4.8	5.3	4.7	5.8	4.8	6.0	5.2
Nasion	7.1	5.5	7.0	5.3	7.3	6.2	7.6	6.0
Rhinion (End of nasals)	2.9	1.8	3.0	1.6	3.0	1.8	3.1	1.8
Mid-philtrum	11.7	9.1	11.0	7.4	11.2	8.0	11.1	8.0
Lateral nostril L	12.2	8.6	12.2	8.0	12.6	10.8	13.4	9.8
Lateral nostril R	12.0		12.5		12.8		12.8	
Supracanine L	11.8	9.3	10.6	7.8	10.2	7.7	11.2	8.0
Supracanine R	11.7		10.8		10.2		10.9	
So L (Superior eye orbit)	7.0	5.7	7.1	5.5	7.7	6.5	8.1	6.3
So R (Superior eye orbit)	6.8		6.9		7.3		7.8	
Suborbital L (Inferior eye orbit)	6.5	6.1	5.9	5.7	6.5	7.3	6.6	7.0
Suborbital R (Inferior eye orbit)	6.1		5.7		6.2		6.1	
Ecm L (Supra M ² , post. maxilla)	31.0	26.3	31.3	25.1	32.4	27.2	32.9	29.4
Ecm R (Supra M ² , post. maxilla)	30.9		31.3		32.7		34.0	
Ec L (Lateral eye orbit)	5.2	4.7	5.4	4.3	5.1	4.5	6.5	4.9
Ec R (Lateral eye orbit)	5.5		5.7		5.5		6.1	
Mz L (Zygomatic, ant. zygoma)	10.2	9.3	9.6	8.7	10.2	10.2	10.3	11.0
Mz R (Zygomatic, ant. zygoma)	10.3		9.7		10.3		10.3	
Sgl L (Root of zygoma)	11.7	7.4	11.8	4.9	12.4	6.0	12.0	7.4
Sgl R (Root of zygoma)	11.5		12.1		12.0		12.9	

Table B.117 - Mean facial soft tissue depths (mm) for females (all weights) compared to Cavanagh & Steyn (2011)

Reference study	Current	Cavanagh & Steyn
Population	European	South African
Age (years)	18-35	18-35
<i>n</i>	37-53	154
Supraglabella	5.1	4.7
Glabella	5.3	6.3
Nasion	7.1	6.0
Rhinion (End of nasals)	3.0	2.7
Mid-philtrum	11.8	10.9
Prosthion (Mid upper lip margin)	11.2	13.3
Mid-nasomaxillare L	3.6	4.3
Mid-nasomaxillare R	3.6	
Sc L (Lateral supra-labiale)	11.7	10.2
Sc R (Lateral supra-labiale)	11.9	
Frontal eminence L	4.8	4.8
Frontal eminence R	4.7	
Supraorbital L	7.3	6.8
Supraorbital R	7.1	
Suborbital L	6.8	6.9
Suborbital R	6.4	
Ectomolare L (Supra M ²)	31.4	30.1
Ectomolare R (Supra M ²)	31.5	
Frontotemporale L	6.5	4.6
Frontotemporale R	6.5	
Zygomaxillare L	15.0	18.7
Zygomaxillare R	14.5	
Occlusal line L	24.0	21.6
Occlusal line R	23.8	
Zygion L (Lateral zygomatic arch)	8.5	8.4
Zygion R (Lateral zygomatic arch)	8.7	
Supraglenoid L	11.8	12.0
Supraglenoid R	12.2	

Table B.118 - Mean facial soft tissue depths (mm) for pooled sample (all weights) compared to T-Table (Stephan, 2014a)

Reference study Population Age (years) <i>n</i>	Current European 18-84 205-320	Stephan Global > 18 1593-8708
Glabella	5.9	5.5
Nasion	8.2	6.5
Mid-nasal	5.8	4.5
Rhinion	3.6	3.0
Subspinale (Subnasal)	14.8	13.0
Mid-philtrum	12.8	11.5
Prosthion (Labrale superius)	11.6	11.5
Canine fossa L (Alare curvature point)	13.2	9.5
Canine fossa R (Alare curvature point)	13.5	
Supracanine L	12.7	10.0
Supracanine R	12.8	
Supraorbital L (Mid-supraorbital)	8.2	6.5
Supraorbital R (Mid-supraorbital)	8.0	
Suborbital L (Mid-infraorbital)	7.0	7.0
Suborbital R (Mid-infraorbital)	6.9	
Ectomolare L (Supra M ²)	33.8	25.0
Ectomolare R (Supra M ²)	34.0	
Zygion L	9.0	7.0
Zygion R	9.7	

Tables

Table B.119 - Median facial soft tissue depths (mm) for males (BMI < 20.0, 20.0 > BMI < 25.0, and 25.0 > BMI < 30.0) compared to Helmer (1984)

Reference study	Current	Helmer	Current	Helmer	Current	Helmer	Current	Helmer	Current	Helmer
Population	European	German	European	German	European	German	European	German	European	German
Age (years)	20-29	20-29	30-39	30-39	40-49	40-49	50-59	50-59	> 60	> 60
<i>n</i>	27-36	12	23-30	13	15-29	11	10-26	15	16-30	11
Metopion	4.7	4.5	4.7	4.5	5.1	4.6	4.9	4.7	5.2	5.2
Supraglabella (Ophryon)	5.7	5.0	6.2	5.2	6.2	5.3	6.5	5.3	6.3	5.8
Glabella	5.4	5.5	5.9	5.7	6.0	5.9	5.7	6.0	6.3	6.5
Nasion	8.6	6.9	8.6	6.5	8.4	6.2	8.9	6.5	9.1	6.5
Mid-nasal (Nasenbeinmitte)	6.1	2.9	6.1	3.0	6.3	3.0	6.4	3.0	6.0	3.0
Rhinion	3.5	2.3	3.9	2.5	4.2	2.4	3.5	2.3	4.7	2.5
Subspinale (Subnasale)	16.0	13.8	16.5	12.8	16.7	12.6	15.1	13.2	14.0	12.2
Prosthion (Labrale superius)	13.0	11.8	12.9	10.7	12.7	10.5	11.5	10.0	12.1	9.8
Lateral nostril L (Alare)	13.8		14.7		14.8		13.1		14.7	
Lateral nostril R (Alare)	13.7	11.6	15.3	11.0	14.9	11.0	13.1	11.5	14.3	11.5
Canine fossa L (Fossa canina)	13.9		14.2		14.2		12.7		14.1	
Canine fossa R (Fossa canina)	13.9	18.8	14.2	20.2	14.1	19.1	14.7	20.7	14.4	22.3
Lateral frontal L (Stirnmitte)	6.2		6.6		7.5		7.0		7.7	
Lateral frontal R (Stirnmitte)	6.4	5.2	6.9	5.0	7.1	5.3	6.8	5.0	7.5	5.3
So L (Mitte oberer Augenhöhlenrand)	7.7		8.3		8.8		8.5		9.5	
So R (Mitte oberer Augenhöhlenrand)	7.5	6.6	8.1	6.5	8.7	7.4	8.4	6.7	9.3	6.8
Orbitale L	6.5		7.2		7.8		7.2		8.7	
Orbitale R	6.6	5.5	6.9	5.5	7.8	5.4	6.9	6.0	8.6	6.3
Frontotemporale L	6.5		7.2		6.9		7.0		7.9	
Frontotemporale R	6.7	5.0	7.4	5.0	7.2	4.8	7.4	5.0	8.1	5.0
Ectoconchion L	4.8		5.6		6.0		7.1		7.2	
Ectoconchion R	4.8	5.2	5.8	5.0	6.3	5.1	7.0	5.3	7.6	5.5
Mid-zygomatic L(Wangenbeinhöcker)	8.0		9.5		9.9		9.5		9.8	
Mid-zygomatic R(Wangenbeinhöcker)	8.2	8.9	9.6	9.0	10.6	9.1	9.3	9.0	9.6	10.3
Zygomaxillare L	13.9		14.7		16.4		15.2		15.5	
Zygomaxillare R	13.5	10.3	14.9	10.3	15.9	10.6	15.0	10.7	14.1	12.0
Zygion L	7.6		9.3		10.7		9.2		9.6	
Zygion R	8.0	4.8	10.0	5.2	11.1	5.4	10.2	5.3	10.0	5.2

Tables

Table B.120 - Median facial soft tissue depths (mm) for females (BMI < 20.0, 20.0 > BMI < 25.0, and 25.0 > BMI < 30.0) compared to Helmer (1984)

Reference study	Current	Helmer	Current	Helmer	Current	Helmer	Current	Helmer	Current	Helmer
Population	European	German	European	German	European	German	European	German	European	German
Age (years)	20-29	20-29	30-39	30-39	40-49	40-49	50-59	50-59	> 60	> 60
<i>n</i>	21-28	13	25-32	14	19-30	13	24-31	11	17-32	10
Metopion	4.1	5.0	4.2	5.0	4.4	5.0	4.1	5.0	4.8	4.8
Supraglabella (Ophryon)	4.8	5.5	4.8	5.8	5.6	5.5	5.4	5.8	6.0	5.8
Glabella	5.1	5.7	5.1	6.2	5.8	6.0	5.6	6.0	6.3	6.3
Nasion	7.0	8.2	7.2	7.3	7.7	6.8	7.5	7.3	7.9	7.1
Mid-nasal (Nasenbeinmitte)	5.1	3.0	4.9	3.5	5.2	3.9	5.4	3.5	5.9	3.7
Rhinion	2.6	2.3	2.9	2.5	3.1	2.7	3.2	2.8	3.8	2.6
Subspinale (Subnasale)	14.4	15.5	13.5	14.6	13.3	15.6	12.7	14.3	13.9	12.9
Prosthion (Labrale superius)	10.9	14.0	10.4	12.3	8.9	12.6	9.7	11.8	9.7	9.9
Lateral nostril L (Alare)	12.5		12.5		13.0		12.5		13.5	
Lateral nostril R (Alare)	12.2	13.3	12.4	11.7	13.0	12.2	12.5	12.5	13.7	11.9
Canine fossa L (Fossa canina)	12.2		12.2		11.4		11.6		12.2	
Canine fossa R (Fossa canina)	12.3	18.8	12.5	19.7	11.7	21.5	12.6	21.8	11.6	21.5
Lateral frontal L (Stirnmitte)	5.6		5.6		6.2		5.8		6.7	
Lateral frontal R (Stirnmitte)	5.6	5.5	5.7	6.0	5.9	5.5	5.9	6.0	6.8	6.2
So L (Mitte oberer Augenhöhlenrand)	7.0		7.4		7.9		7.9		8.8	
So R (Mitte oberer Augenhöhlenrand)	6.8	7.3	7.3	7.3	7.5	7.2	7.7	7.5	8.5	6.7
Orbitale L	7.0		6.6		7.4		7.1		8.3	
Orbitale R	6.7	5.2	6.5	5.0	7.4	5.8	7.0	5.5	8.6	5.8
Frontotemporale L	5.7		5.7		6.1		6.1		6.8	
Frontotemporale R	6.7	5.0	5.8	5.3	6.1	5.5	6.4	5.5	6.9	5.5
Ectoconchion L	5.4		5.2		5.7		5.6		7.1	
Ectoconchion R	5.4	5.3	5.4	5.2	5.9	5.8	5.9	5.7	7.1	5.6
Mid-zygomatic L(Wangenbeinhöcker)	10.4		10.1		10.7		10.4		11.4	
Mid-zygomatic R(Wangenbeinhöcker)	10.4	7.5	10.0	7.6	10.9	6.8	10.5	8.0	11.4	7.5
Zygomaxillare L	15.0		13.8		15.4		14.7		15.9	
Zygomaxillare R	14.4	9.5	13.6	9.9	15.1	10.1	14.4	10.7	15.2	9.0
Zygion L	7.9		8.1		9.5		8.6		9.2	
Zygion R	8.5	5.3	7.9	5.3	9.9	5.5	8.9	5.5	10.3	5.0

Table B.121 - Median facial soft tissue depths (mm) for males (all weights) compared to Panenková et al. (2012)

Reference study	Current	Panenková	Current	Panenková	Current	Panenková
Population	European	Slovakian	European	Slovakian	European	Slovakian
Age (years)	18-39	18-39	40-59	40-59	≥ 60	≥ 60
<i>n</i>	46-70	10-25	22-56	8-38	9-30	3-17
Supraglabella	5.8	4.6	6.4	5.5	6.3	4.8
Glabella	5.6	5.3	5.9	6.2	6.3	5.9
Nasion	8.6	7.5	8.7	7.9	9.1	7.9
Rhinion	3.7	2.1	3.8	2.6	4.7	2.2
Mid-philtrum	14.5	15.1	14.0	15.6	12.8	13.7
Prosthion (Upper lip margin)	13.0	14.0	12.1	12.6	12.1	12.1
Cf L (Inferior malar)	13.9	8.4	13.3	16.7	14.1	16.4
Cf R (Inferior malar)	14.0	8.4	14.1	16.7	14.4	16.4
Supraorbital L	7.9	7.8	8.7	8.4	9.6	7.8
Supraorbital R	7.9	7.8	8.5	8.4	9.3	7.8
Suborbital L	6.6	6.7	7.0	7.3	8.0	8.1
Suborbital R	6.3	6.7	6.8	7.3	7.9	8.1
Ectomolare L (Supra M ²)	33.1	31.1	37.1	32.4	37.0	31.3
Ectomolare R (Supra M ²)	32.8	31.1	37.6	32.4	40.4	31.3
Mz L (Lateral orbit)	8.7	8.4	9.7	8.5	9.8	8.9
Mz R (Lateral orbit)	8.9	8.4	10.0	8.5	9.6	8.9
Occlusal line L	26.8	26.7	28.3	27.9	27.8	25.4
Occlusal line R	27.1	26.7	29.7	27.9	27.9	25.4
Zygion L	8.1	9.3	10.1	9.9	9.6	9.6
Zygion R	8.6	9.3	10.8	9.9	10.0	9.6
Supraglenoid L	13.1	12.9	15.2	13.5	15.2	14.0
Supraglenoid R	13.9	12.9	14.9	13.5	15.4	14.0

Table B.122 - Median facial soft tissue depths (mm) for females (all weights) compared to Panenková et al. (2012)

Reference study	Current	Panenková	Current	Panenková	Current	Panenková
Population	European	Slovakian	European	Slovakian	European	Slovakian
Age (years)	18-39	18-39	40-59	40-59	≥ 60	≥ 60
<i>n</i>	46-64	8-25	44-64	4-35	11-32	0-20
Supraglabella	4.8	4.3	5.5	4.7	6.0	4.7
Glabella	5.2	5.0	5.7	5.5	6.3	5.7
Nasion	7.1	6.8	7.6	6.8	7.9	6.8
Rhinion	2.8	2.0	3.2	2.1	3.8	2.2
Mid-philtrum	11.7	13.4	11.1	12.1	11.4	10.6
Prosthion (Upper lip margin)	10.7	11.8	9.7	10.7	9.7	10.6
Cf L (Inferior malar)	12.2	9.4	11.6	15.4	12.2	15.6
Cf R (Inferior malar)	12.5	9.4	12.5	15.4	11.6	15.6
Supraorbital L	7.2	6.7	8.0	7.5	8.8	7.2
Supraorbital R	6.9	6.7	7.7	7.5	8.2	7.2
Suborbital L	6.5	5.2	6.5	7.0	7.4	6.6
Suborbital R	6.3	5.2	6.5	7.0	7.1	6.6
Ectomolare L (Supra M ²)	31.3	26.6	33.3	28.8	34.2	27.4
Ectomolare R (Supra M ²)	31.5	26.6	33.4	28.8	36.3	27.4
Mz L (Lateral orbit)	10.4	9.4	10.6	10.4	11.4	9.6
Mz R (Lateral orbit)	10.3	9.4	10.9	10.4	11.4	9.6
Occlusal line L	23.7	21.5	24.5	22.5	25.2	22.2
Occlusal line R	23.5	21.5	24.9	22.5	24.7	22.2
Zygion L	8.1	7.9	8.7	9.6	9.2	9.6
Zygion R	8.2	7.9	9.3	9.6	10.3	9.6
Supraglenoid L	11.7	10.8	12.2	11.9	13.3	11.9
Supraglenoid R	11.7	10.8	12.5	11.9	13.8	11.9

Table B.123 - Median facial soft tissue depths (mm) for males (all weight) compared to Guyomarc'h et al. (2013)

Reference study	Current	Guyomarc'h	Current	Guyomarc'h	Current	Guyomarc'h
Population	European	French	European	French	European	French
Age (years)	18-39	18-39	40-59	40-59	≥ 60	≥ 60
<i>n</i>	46-70	48-75	22-56	60-83	9-30	52-87
Glabella	5.6	6.2	5.9	6.5	6.3	6.7
Nasion	8.6	8.7	8.7	8.6	9.1	9.1
Mid-nasal	6.1	6.1	6.4	5.8	6.0	6.3
Rhinion	3.7	3.1	3.8	3.2	4.7	3.3
Mid-philtrum	14.5	14.5	14.0	14.0	12.8	12.6
Prosthion	13.0	15.3	12.1	14.6	12.1	14.8
Supracanine L	14.2	15.1	13.8	13.9	13.1	13.5
Supracanine R	14.4	15.2	13.8	13.9	13.3	13.5
Supraorbital L	7.9	10.0	8.7	10.2	9.6	11.1
Supraorbital R	7.9	9.9	8.5	10.2	9.3	10.5
Suborbital L	6.6	7.5	7.0	8.1	8.0	9.1
Suborbital R	6.3	7.6	6.8	8.2	7.9	9.2
Ectomolare L	33.1	32.9	37.1	35.7	37.0	36.8
Ectomolare R	32.8	32.6	37.6	36.9	40.4	36.3
Zygion L	8.1	9.0	10.1	9.6	9.6	10.6
Zygion R	8.6	8.9	10.8	10.2	10.0	10.5

Table B.124 - Median facial soft tissue depths (mm) for females (all weights) compared to Guyomarc'h et al. (2013)

Reference study	Current	Guyomarc'h	Current	Guyomarc'h	Current	Guyomarc'h
Population	European	French	European	French	European	French
Age (years)	18-39	18-39	40-59	40-59	≥ 60	≥ 60
<i>n</i>	46-64	39-73	44-64	31-65	11-32	46-85
Glabella	5.2	5.8	5.7	6.4	6.3	6.3
Nasion	7.1	7.3	7.6	7.5	7.9	7.4
Mid-nasal	5.0	4.8	5.3	5.0	5.9	4.5
Rhinion	2.8	2.4	3.2	2.6	3.8	2.9
Mid-philtrum	11.7	11.5	11.1	11.4	11.4	11.0
Prosthion	10.7	12.3	9.7	12.8	9.7	12.7
Supracanine L	11.4	12.3	10.9	11.8	10.5	11.0
Supracanine R	11.7	12.1	10.8	11.9	10.4	11.7
Supraorbital L	7.2	8.7	8.0	8.9	8.8	9.3
Supraorbital R	6.9	8.4	7.7	9.0	8.2	9.4
Suborbital L	6.5	7.7	6.5	7.9	7.4	9.1
Suborbital R	6.3	8.0	6.5	8.1	7.1	9.0
Ectomolare L	31.3	30.9	33.3	32.9	34.2	35.3
Ectomolare R	31.5	30.6	33.4	33.0	36.3	36.7
Zygion L	8.1	9.3	8.7	9.4	9.2	9.2
Zygion R	8.2	9.2	9.3	9.4	10.3	9.3

Table B.125 - Results of independent-samples t-tests

Dataset	Population	Sex	Age (years)	BMI (kg/m ²)	Sig. (2-tailed)
Guyomarc'h (2011)	French	M	18-29	< 25.0	0.9813
		M	30-39	< 25.0	0.9114
		M	40-49	< 25.0	0.9593
		M	50-59	< 25.0	0.9226
		M	> 60	< 25.0	0.8975
		M	18-29	> 25.0	0.6660
		M	30-39	> 25.0	0.8464
		M	40-49	> 25.0	0.8791
		M	50-59	> 25.0	0.7739
		M	> 60	> 25.0	0.7981
		F	18-29	< 25.0	0.9458
		F	30-39	< 25.0	0.9468
		F	40-49	< 25.0	0.9687
		F	50-59	< 25.0	0.8974
		F	> 60	< 25.0	0.8989
		F	18-29	> 25.0	0.7498
		F	30-39	> 25.0	0.8005
		F	40-49	> 25.0	0.8839
		F	50-59	> 25.0	0.7184
		F	> 60	> 25.0	0.8429
De Greef <i>et al.</i> (2006)	Belgian	M	18-29	< 25.0	0.2828
		M	30-39	< 25.0	0.1462
		M	40-49	< 25.0	0.3885
		M	50-59	< 25.0	0.2869
		M	> 60	< 25.0	0.2789
		M	18-29	> 25.0	0.3925
		M	30-39	> 25.0	0.3205
		M	40-49	> 25.0	0.3736
		M	50-59	> 25.0	0.3978
		M	> 60	> 25.0	0.3166
		F	18-29	< 25.0	0.4775
		F	30-39	< 25.0	0.6379
		F	40-49	< 25.0	0.4420
		F	50-59	< 25.0	0.4176
		F	> 60	< 25.0	0.4955
		F	18-29	> 25.0	0.5542
		F	30-39	> 25.0	0.5218
		F	40-49	> 25.0	0.4660
		F	50-59	> 25.0	0.5978
		F	> 60	> 25.0	0.4819

Table B.125 continued

Dataset	Population	Sex	Age (years)	BMI (kg/m ²)	Sig. (2-tailed)
Bulut <i>et al.</i> (2014)	Turkish	M	18-29	< 25.0	0.6743
		M	30-39	< 25.0	0.5550
		M	40-49	< 25.0	0.8918
		M	50-59	< 25.0	0.6982
		M	> 60	< 25.0	0.5474
		F	18-29	< 25.0	0.5764
		F	30-39	< 25.0	0.8933
		F	40-49	< 25.0	0.8211
		F	50-59	< 25.0	0.9213
		F	> 60	< 25.0	0.7272
Valencia C. (2007)	Spanish	Both	21-84	< 20.0	0.1174
		M	21-84	< 20.0	0.1559
		M	20-69	< 20.0	0.6354
		F	21-84	< 20.0	0.1063
		F	20-69	< 20.0	0.9328
		Both	21-84	20.0 > BMI < 25.0	0.1950
		M	21-84	20.0 > BMI < 25.0	0.1327
		M	20-69	20.0 > BMI < 25.0	0.6825
		F	21-84	20.0 > BMI < 25.0	0.3145
		F	20-69	20.0 > BMI < 25.0	0.8491
		Both	21-84	> 25.0	0.2046
		M	21-84	> 25.0	0.0655
		M	20-69	> 25.0	0.7792
		F	21-84	> 25.0	0.3893
		F	20-69	> 25.0	0.9588
Codinha (2009, 2010)	Portuguese	M	26-91	< 20.0	0.4605
		F	20-69	< 20.0	0.2987
		M	26-91	20.0 > BMI < 25.0	0.5879
		F	20-69	20.0 > BMI < 25.0	0.6388
		M	26-91	> 25.0	0.7451
		F	20-69	> 25.0	0.8161
Bellmann <i>et al.</i> (2007)	European	M	16-89	< 20.0	0.3815
		M	16-89	20.0 > BMI < 25.0	0.4081
		M	16-89	> 25.0	0.9545
		F	16-89	< 19.0	0.4807
		F	16-89	20.0 > BMI < 25.0	0.6506
		F	16-89	> 25.0	0.2800
Helmer (1984)	German	M	19-81	All	0.2625
		F	19-81	All	0.3925
Werner (2009)	European	Both	22-60	47-120 kg	0.3485
		M	22-60	47-120 kg	0.2726
		F	22-60	47-120 kg	0.4365

Table B.125 continued

Dataset	Population	Sex	Age (years)	BMI (kg/m ²)	Sig. (2-tailed)
Panenková <i>et al.</i> (2012)	Slovakian	F	18-87	All	0.8887
		M	18-87	All	0.8586
Tilotta <i>et al.</i> (2009)	French	F	20-40	< 20.0 - < 30.0	0.6039
Cavanagh & S. (2001)	South Afric.	F	18-35	All	0.9591
Manhein <i>et al.</i> (2000)	Afric.-Amer.	M	19-34	20.0 > BMI < 25.0	0.5517
		M	35-45	20.0 > BMI < 25.0	0.3329
		F	19-34	20.0 > BMI < 25.0	0.5238
		F	35-45	20.0 > BMI < 25.0	0.5132
		F	46-55	20.0 > BMI < 25.0	0.4489
Manhein <i>et al.</i> (2000)	Eur.-Amer.	M	19-34	20.0 > BMI < 25.0	0.4463
		M	35-45	20.0 > BMI < 25.0	0.4864
		M	46-55	20.0 > BMI < 25.0	0.3767
		M	> 56	20.0 > BMI < 25.0	0.2110
		F	19-34	20.0 > BMI < 25.0	0.4831
		F	35-45	20.0 > BMI < 25.0	0.3440
		F	46-55	20.0 > BMI < 25.0	0.5162
		F	> 56	20.0 > BMI < 25.0	0.5183
Stephan (2014a)	All	All	All	All	0.4368

Table B.126 - Results of the Wilcoxon rank-sum test

Dataset	Population	Sex	Age (years)	BMI (kg/m ²)	Sig. (2-tailed)
Helmer (1984)	German	M	20-29	< 20.0 - < 30.0	0.1877
		M	30-39	< 20.0 - < 30.0	0.0400
		M	40-49	< 20.0 - < 30.0	0.0300
		M	50-59	< 20.0 - < 30.0	0.0481
		M	> 60	< 20.0 - < 30.0	0.0747
		F	20-29	< 20.0 - < 30.0	0.8162
		F	30-39	< 20.0 - < 30.0	0.8464
		F	40-49	< 20.0 - < 30.0	0.3137
		F	50-59	< 20.0 - < 30.0	0.5875
		F	> 60	< 20.0 - < 30.0	0.0629
Panenková <i>et al.</i> (2012)	Slovakian	M	18-39	All	1.9667
		M	40-59	All	1.9956
		M	≥ 60	All	1.9886
		F	18-39	All	1.9642
		F	40-59	All	1.9942
		F	≥ 60	All	1.9843
Guyomarc'h <i>et al.</i> (2013)	French	M	18-39	All	1.9034
		M	40-59	All	1.8038
		M	≥ 60	All	1.8723
		F	18-39	All	1.9206
		F	40-59	All	1.9034
		F	≥ 60	All	1.9206

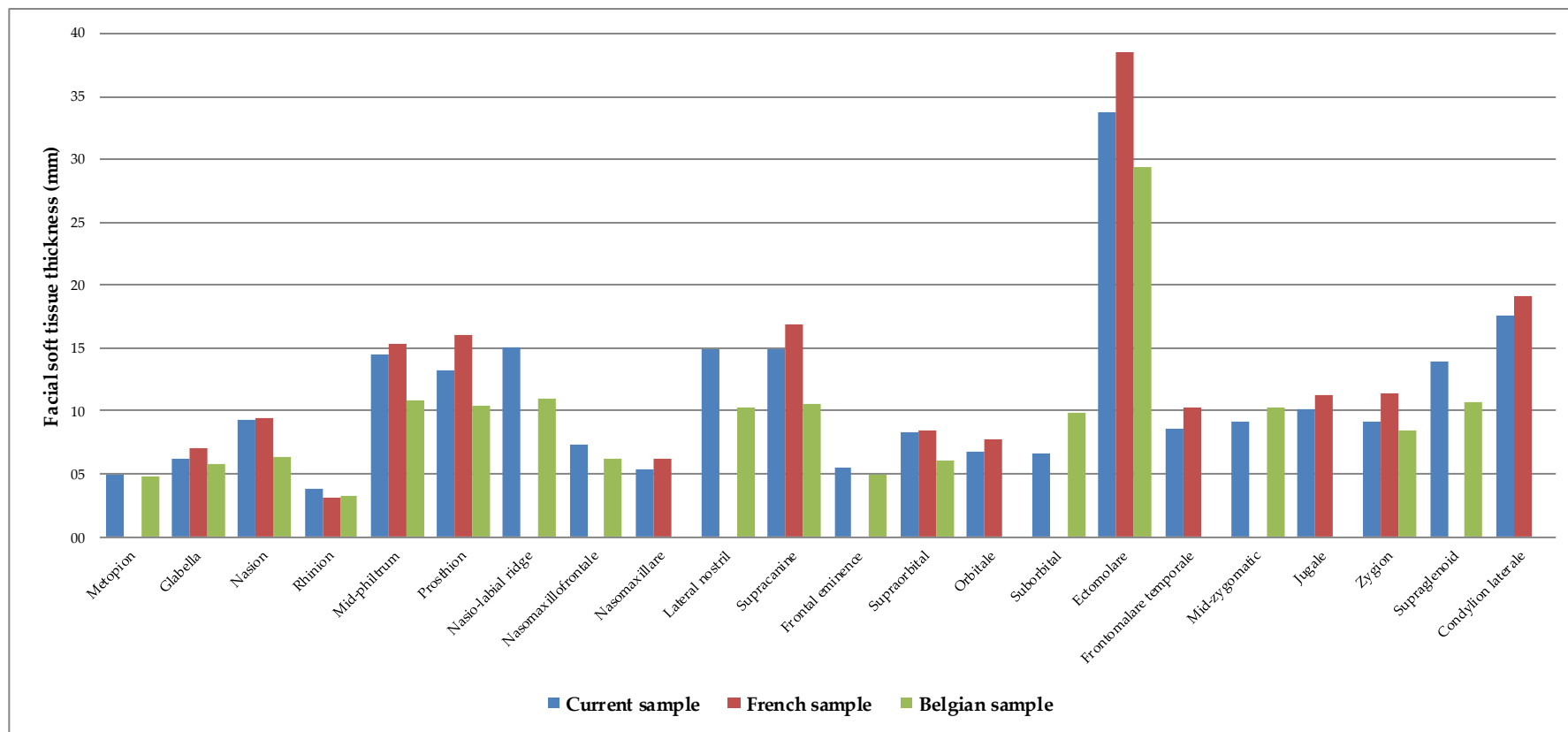
Fig. B.1 - Comparison with Guyomarch's and De Greef's samples (males 18-29 years, 25.0 > BMI < 30.0)

Fig. B.2 - Comparison with Guyomarch's and De Greef's samples (males 30-39 years, 25.0 > BMI < 30.0)

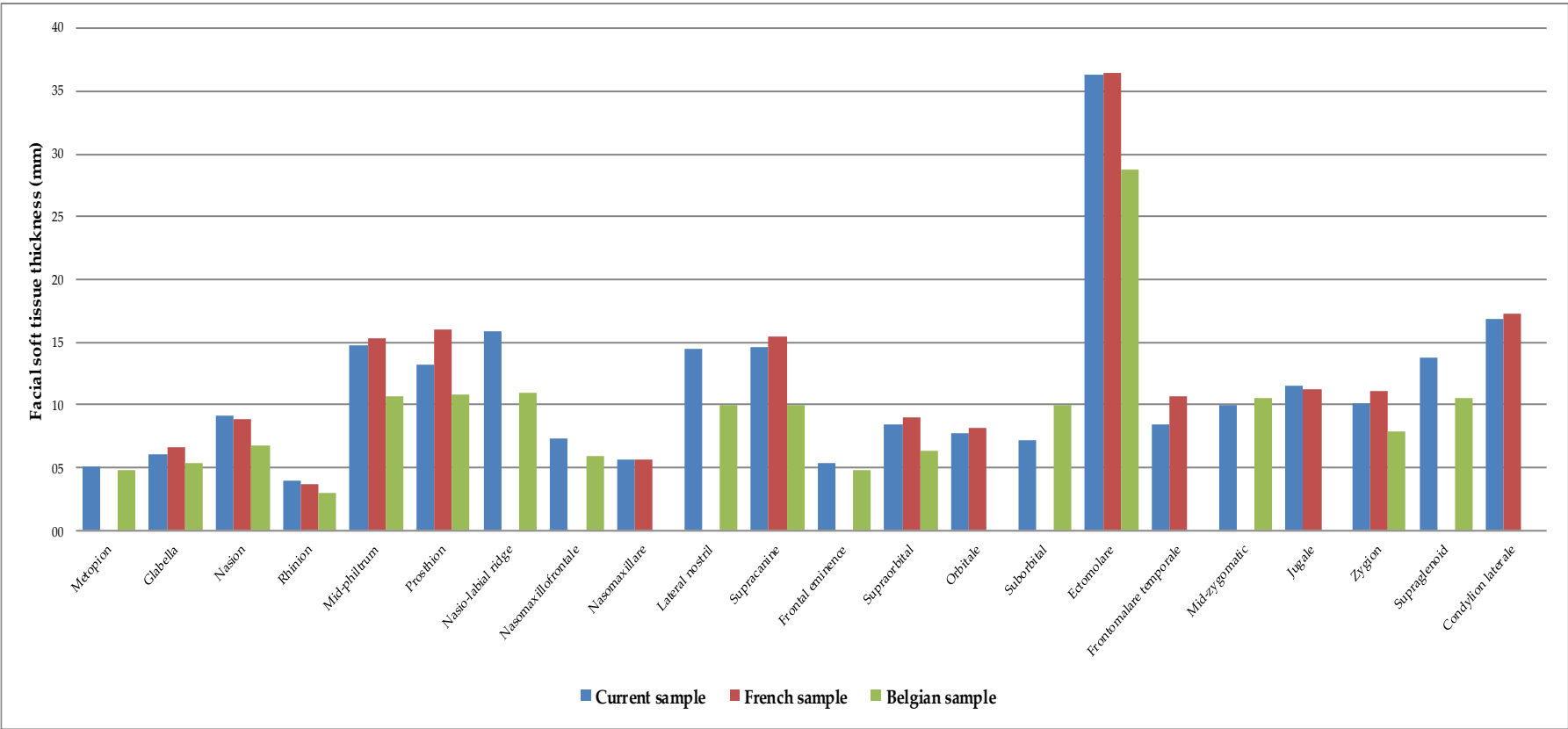


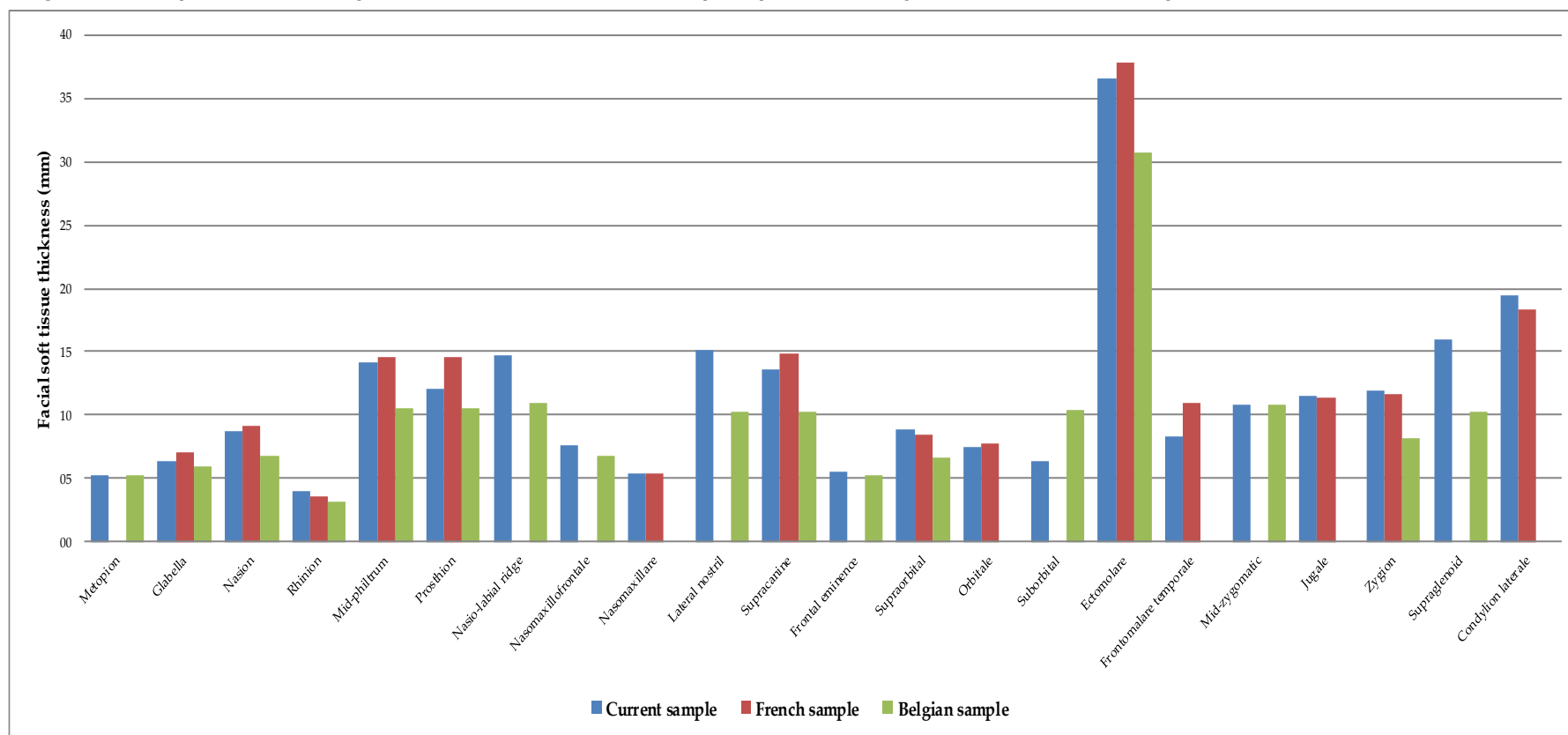
Fig. B.3 - Comparison with Guyomarch's and De Greef's samples (males 40-49 years, 25.0 > BMI < 30.0)

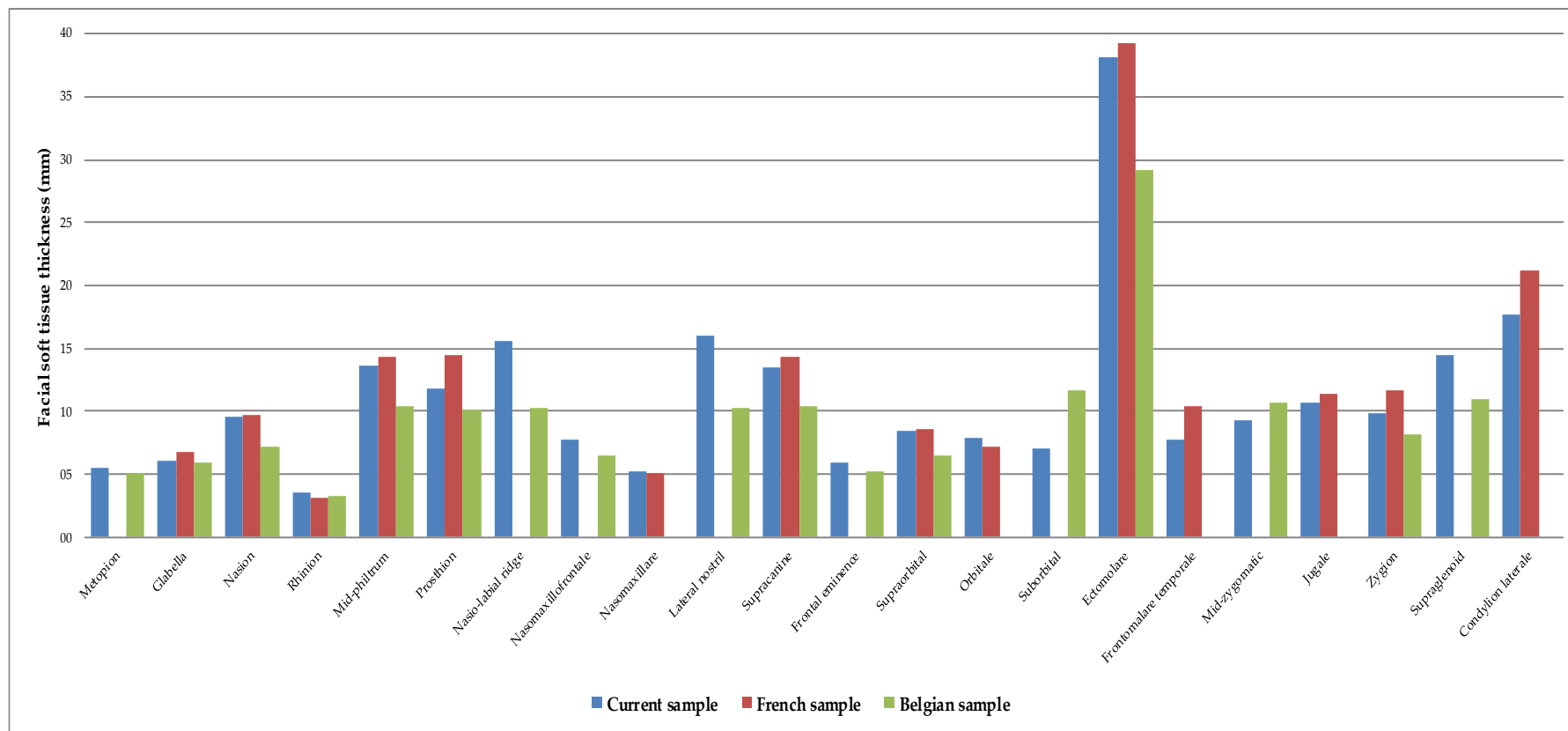
Fig. B.4 - Comparison with Guyomarch's and De Greef's samples (males 50-59 years, 25.0 > BMI < 30.0)

Fig. B.5 - Comparison with Guyomarch's and De Greef's samples (males > 60 years, 25.0 > BMI < 30.0)

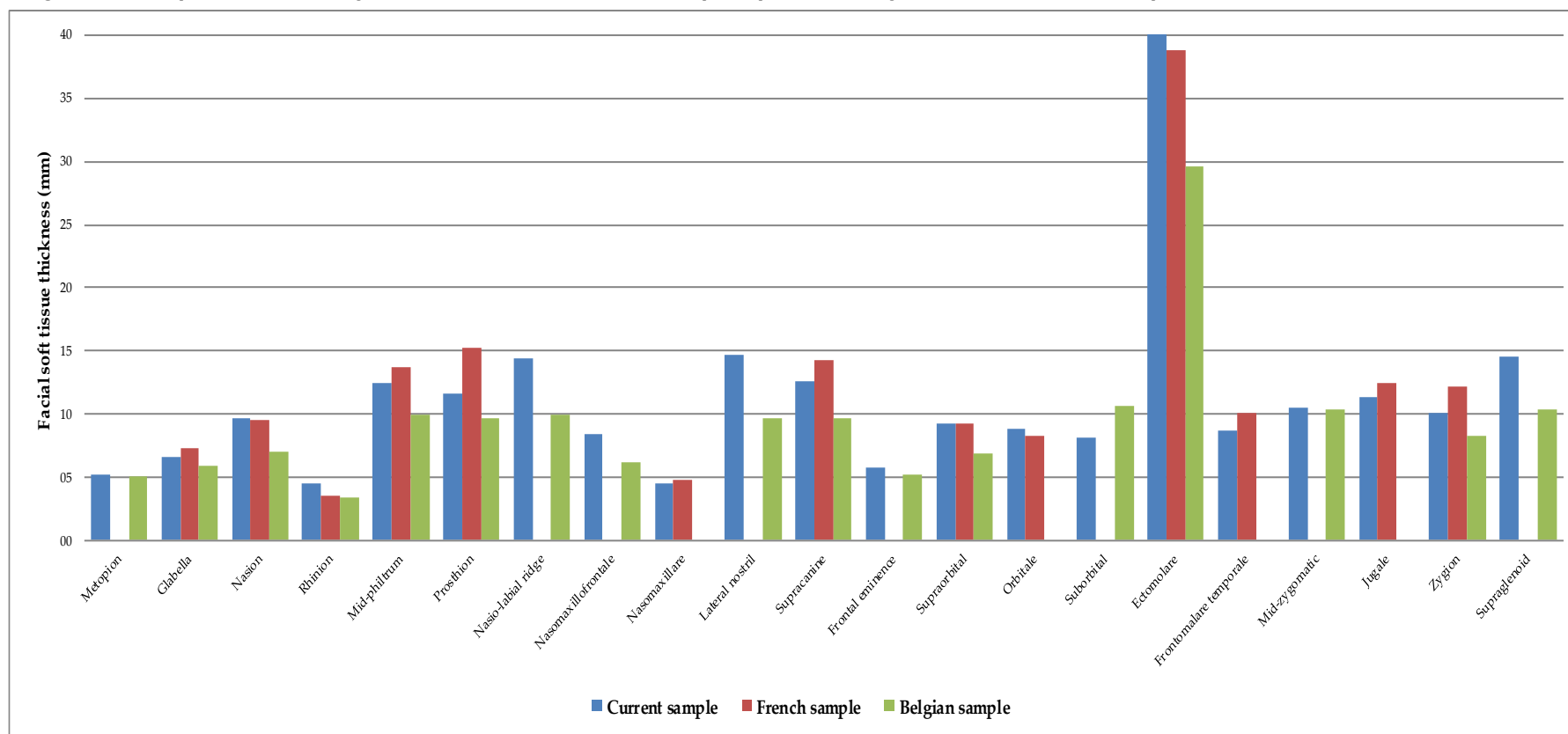


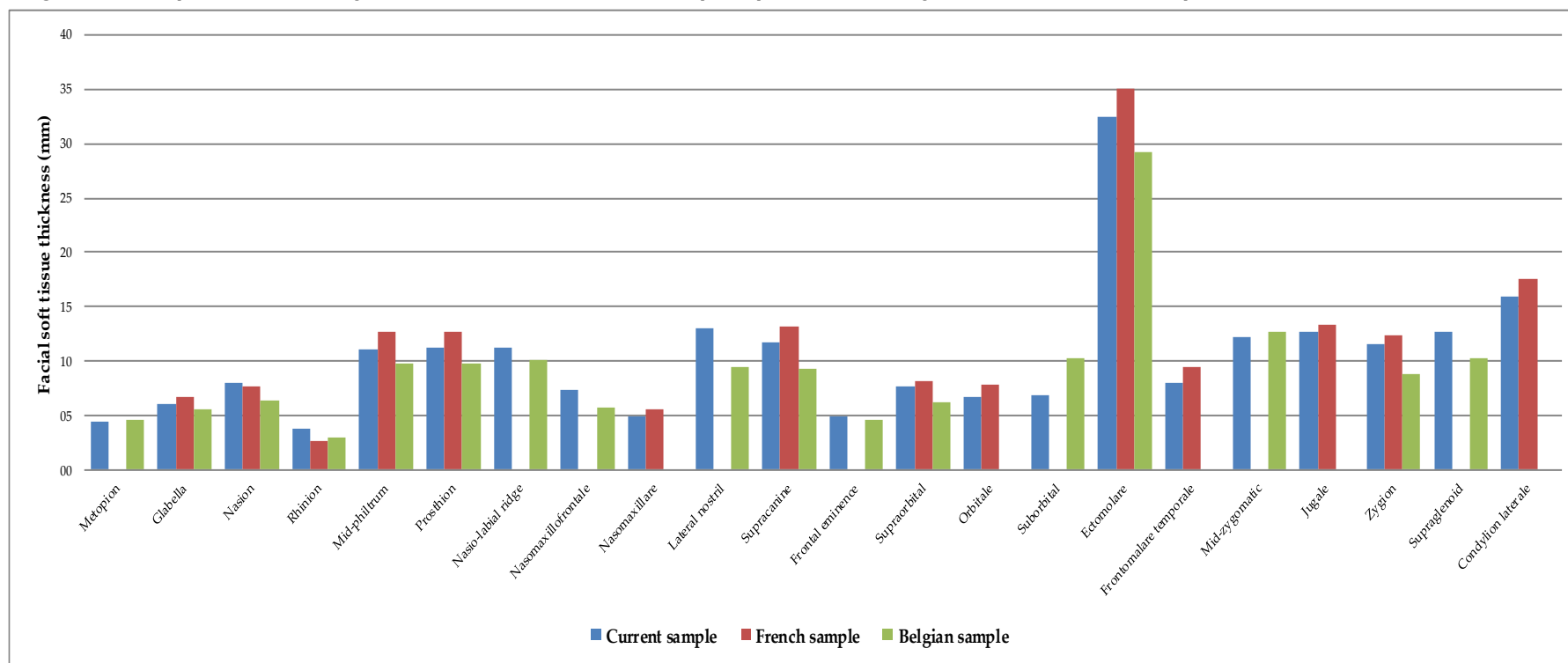
Fig. B.6 - Comparison with Guyomarch's and De Greef's samples (females 18-29 years, 25.0 > BMI < 30.0)

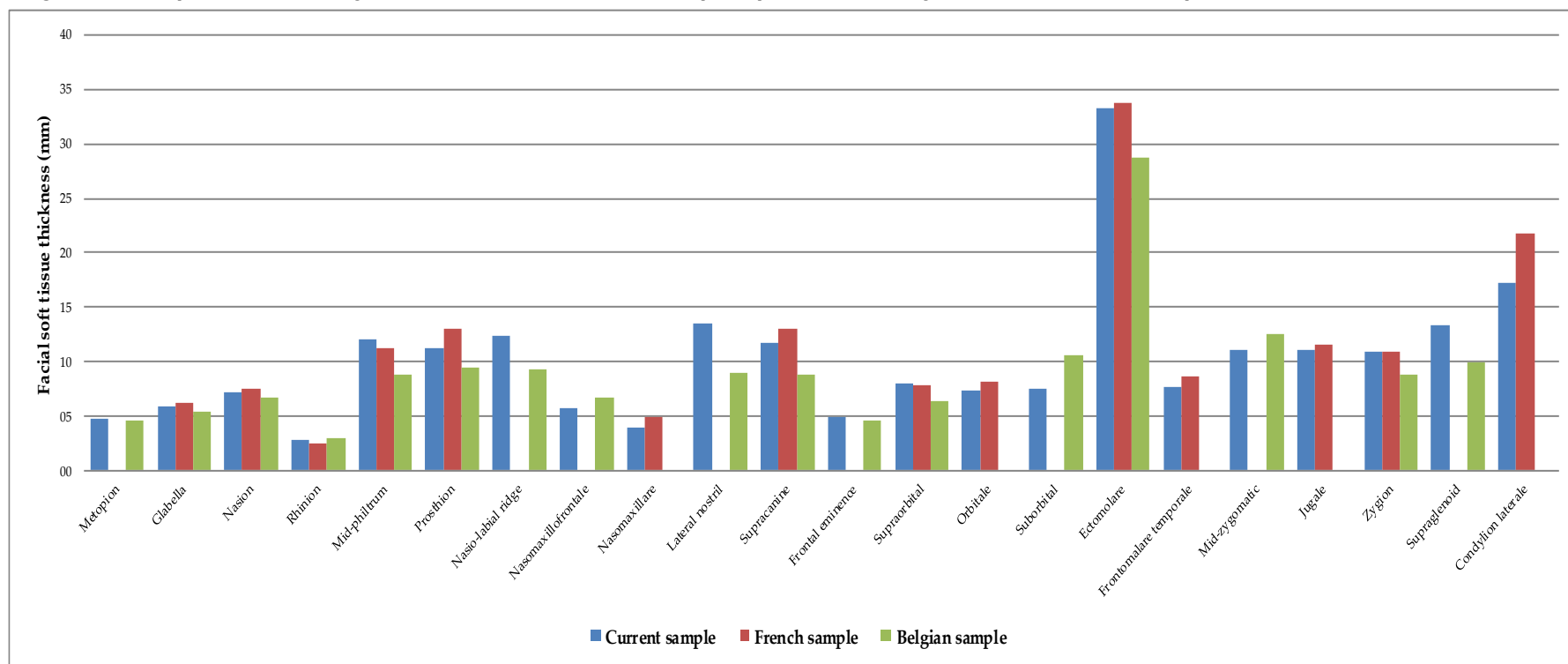
Fig. B.7 - Comparison with Guyomarch's and De Greef's samples (females 30-39 years, 25.0 > BMI < 30.0)

Fig. B.8 - Comparison with Guyomarch's and De Greef's samples (females 40-49 years, 25.0 > BMI < 30.0)

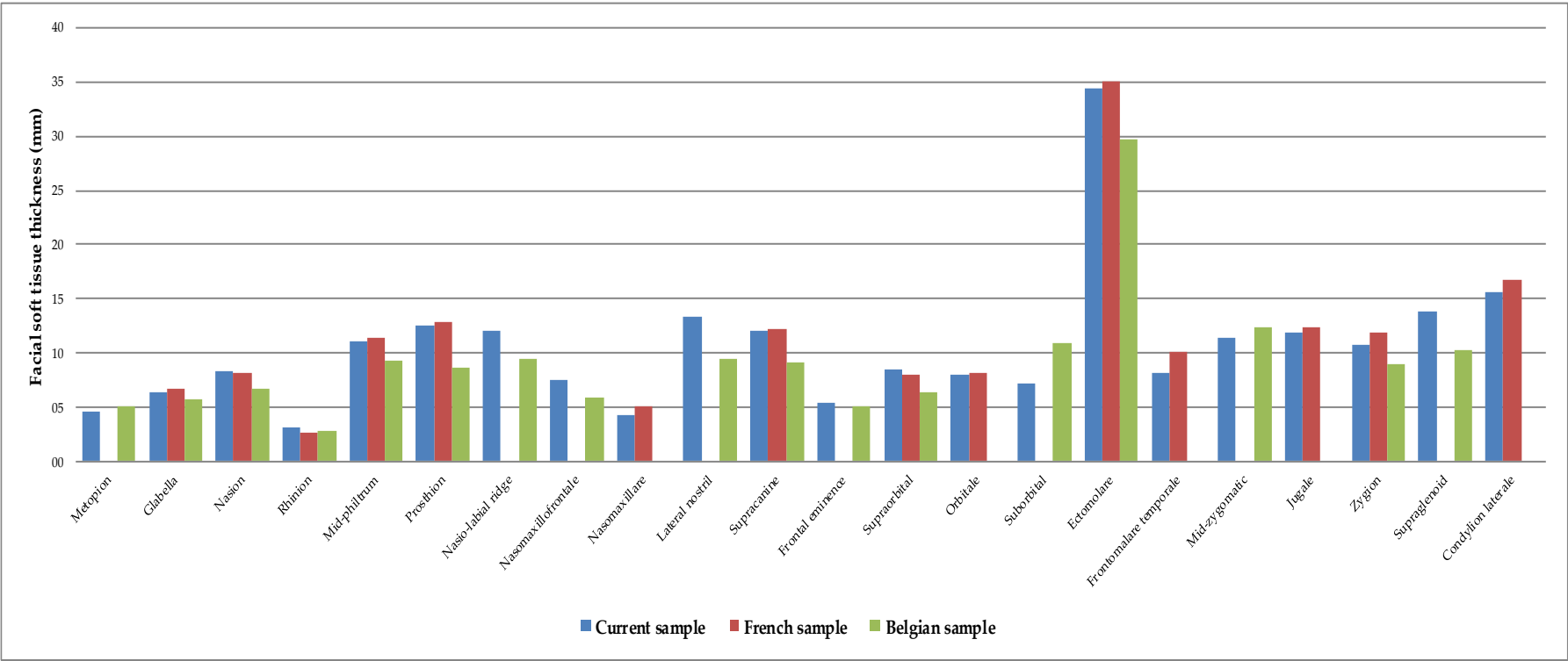


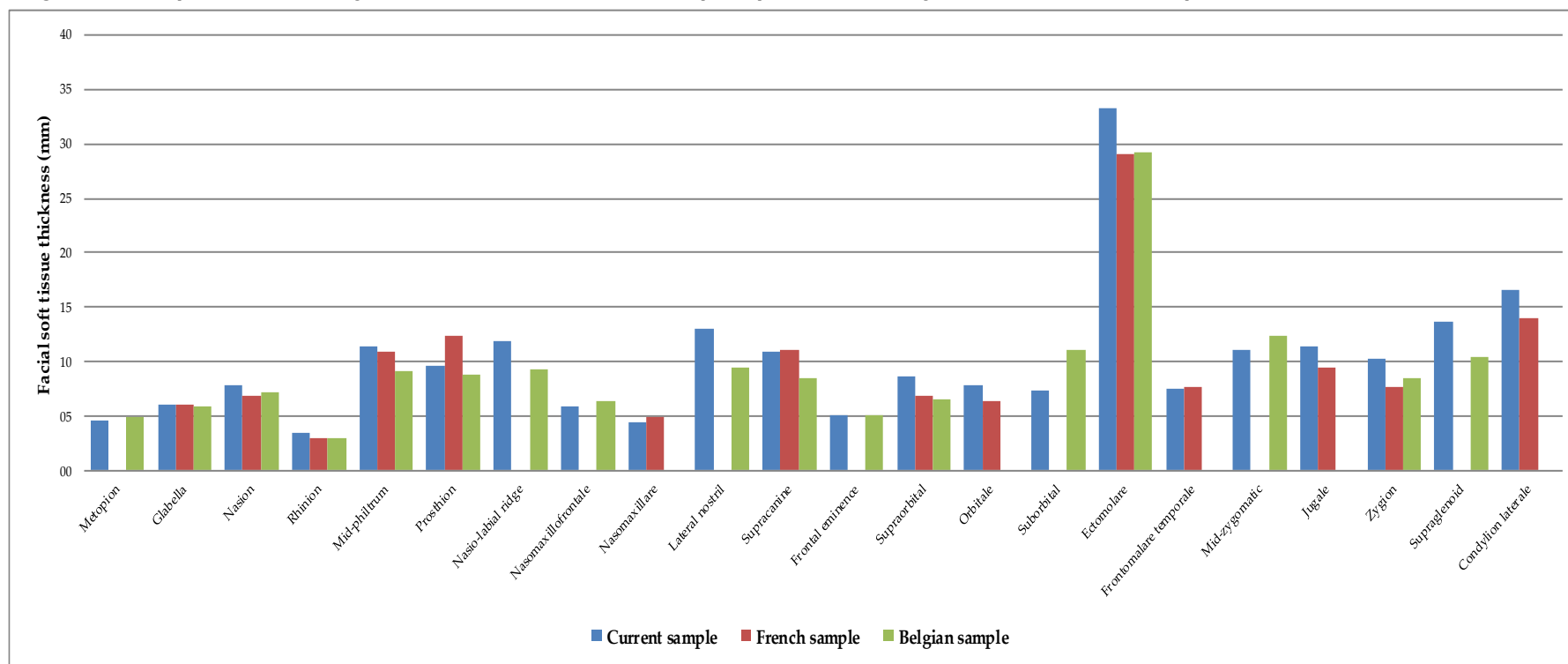
Fig. B.9 - Comparison with Guyomarch's and De Greef's samples (females 50-59 years, 25.0 > BMI < 30.0)

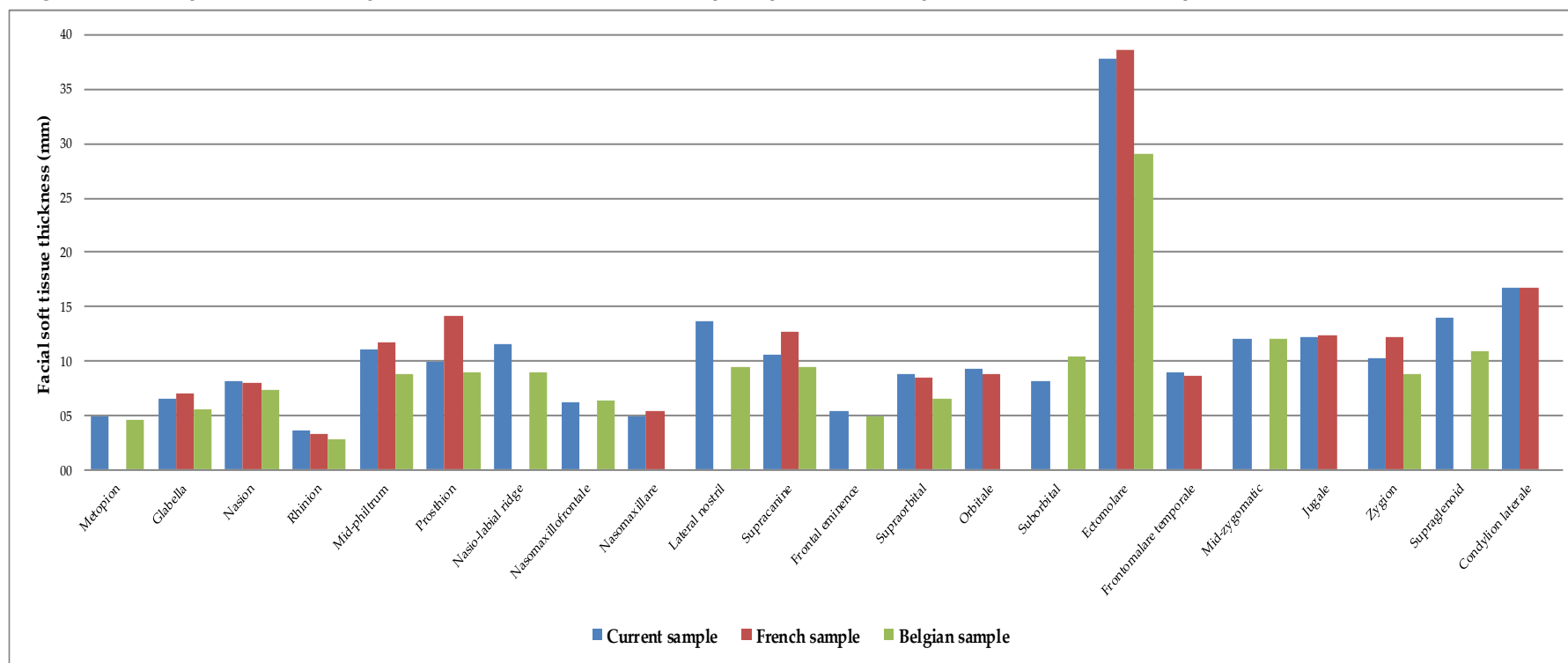
Fig. B.10 - Comparison with Guyomarch's and De Greef's samples (females > 60 years, 25.0 > BMI < 30.0)

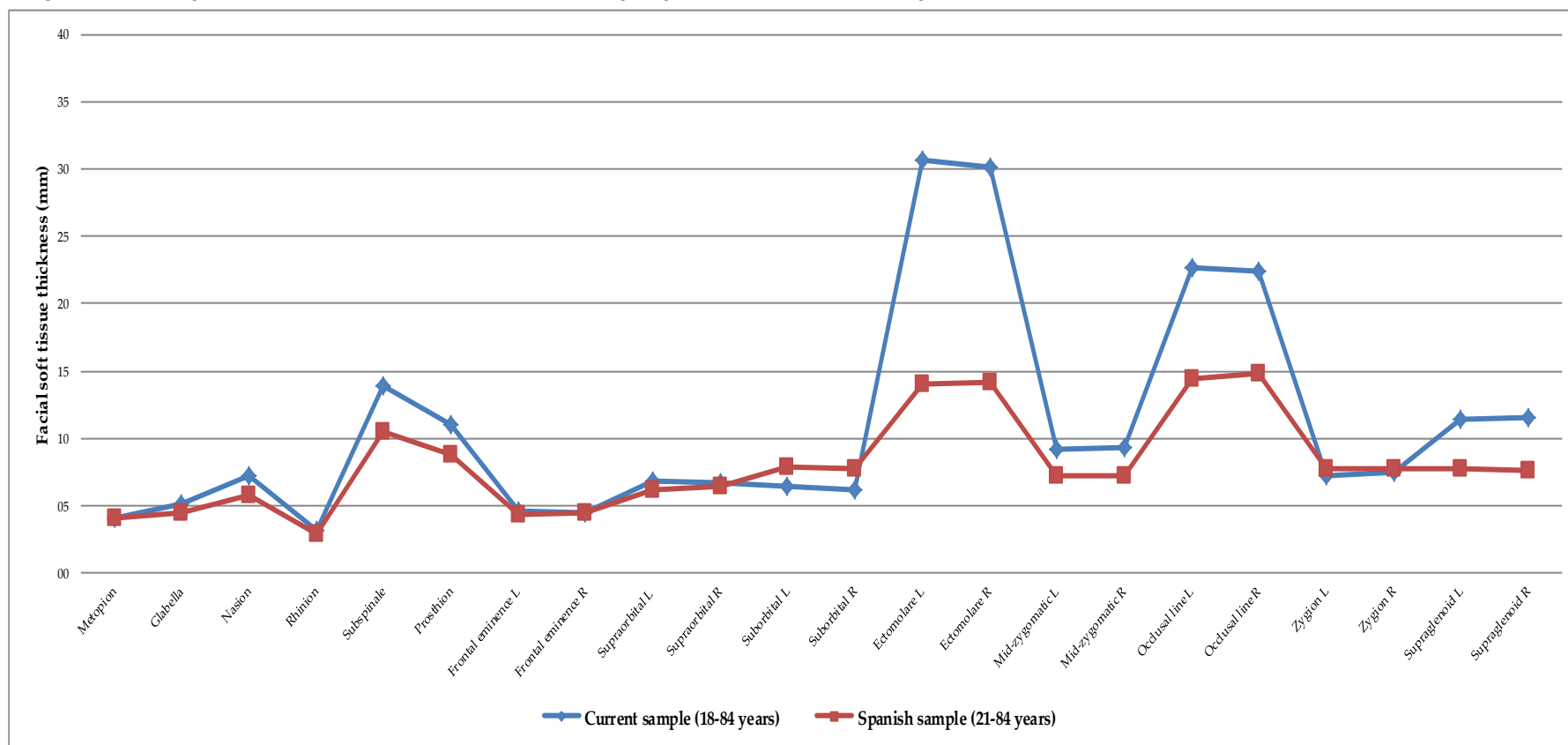
Fig. B.11 - Comparison with Valencia Caballero's sample (both sexes, BMI < 20.0)

Fig. B.12 - Comparison with Valencia Caballero's sample (both sexes, 25.0 > BMI < 30.0)

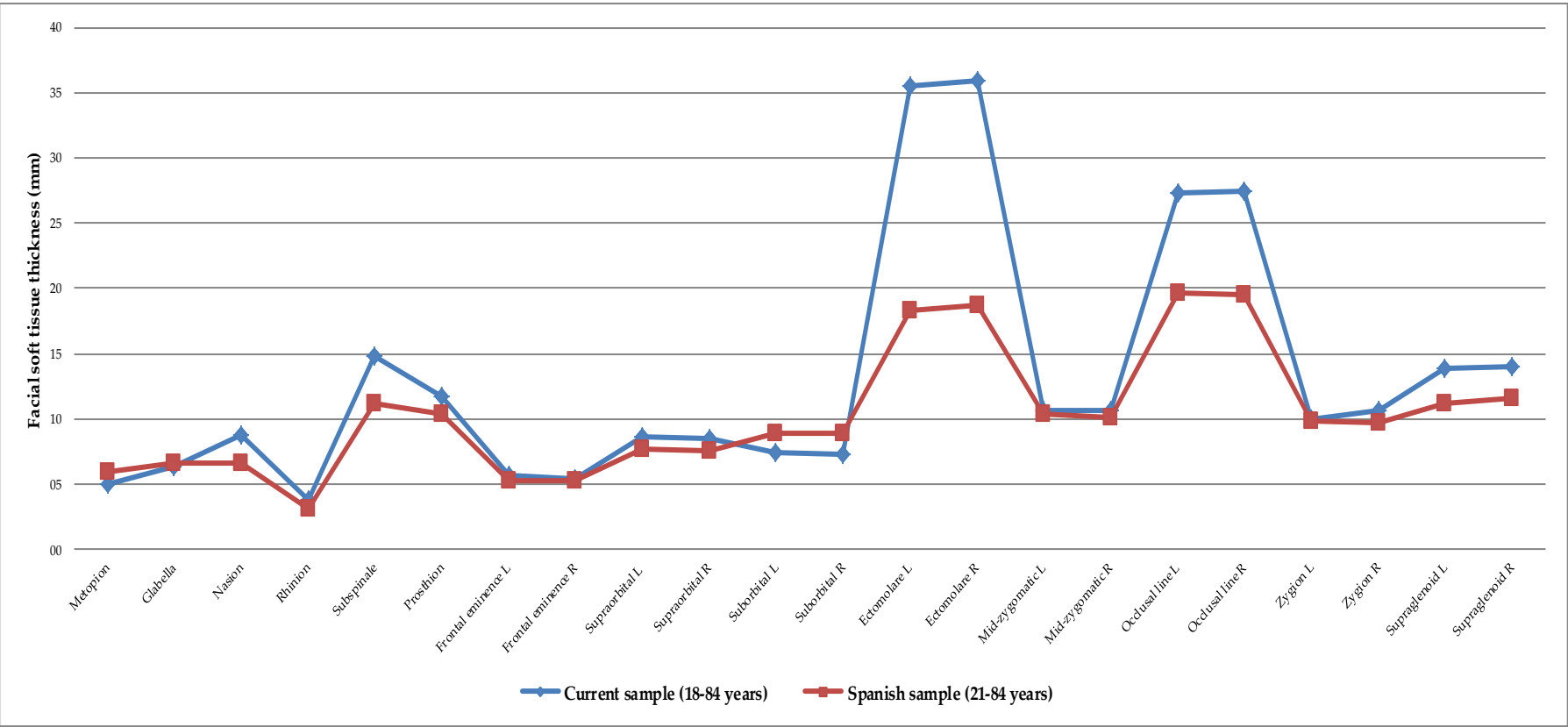


Fig. B.13 - Comparison with Valencia Caballero’s and Codinha’s samples (males, BMI < 20.0)

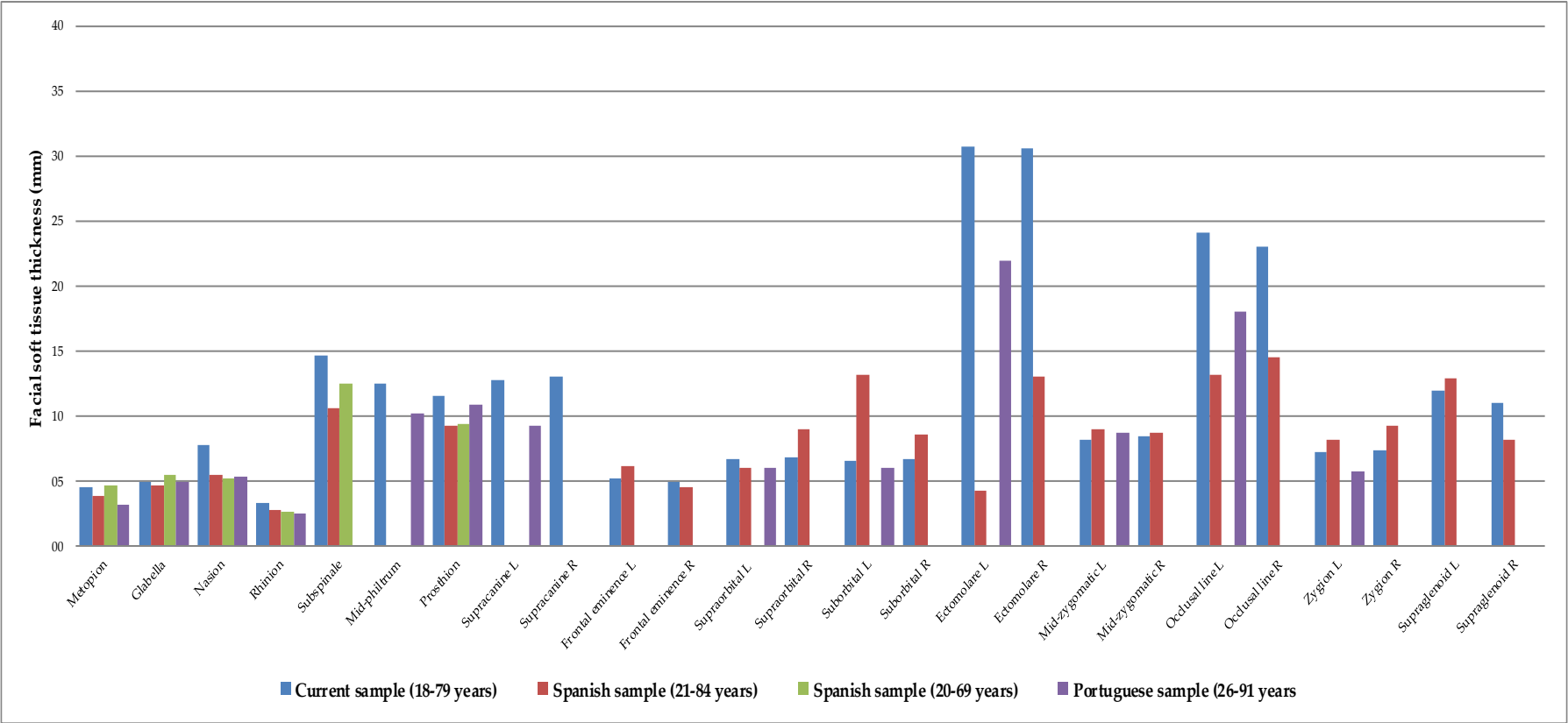


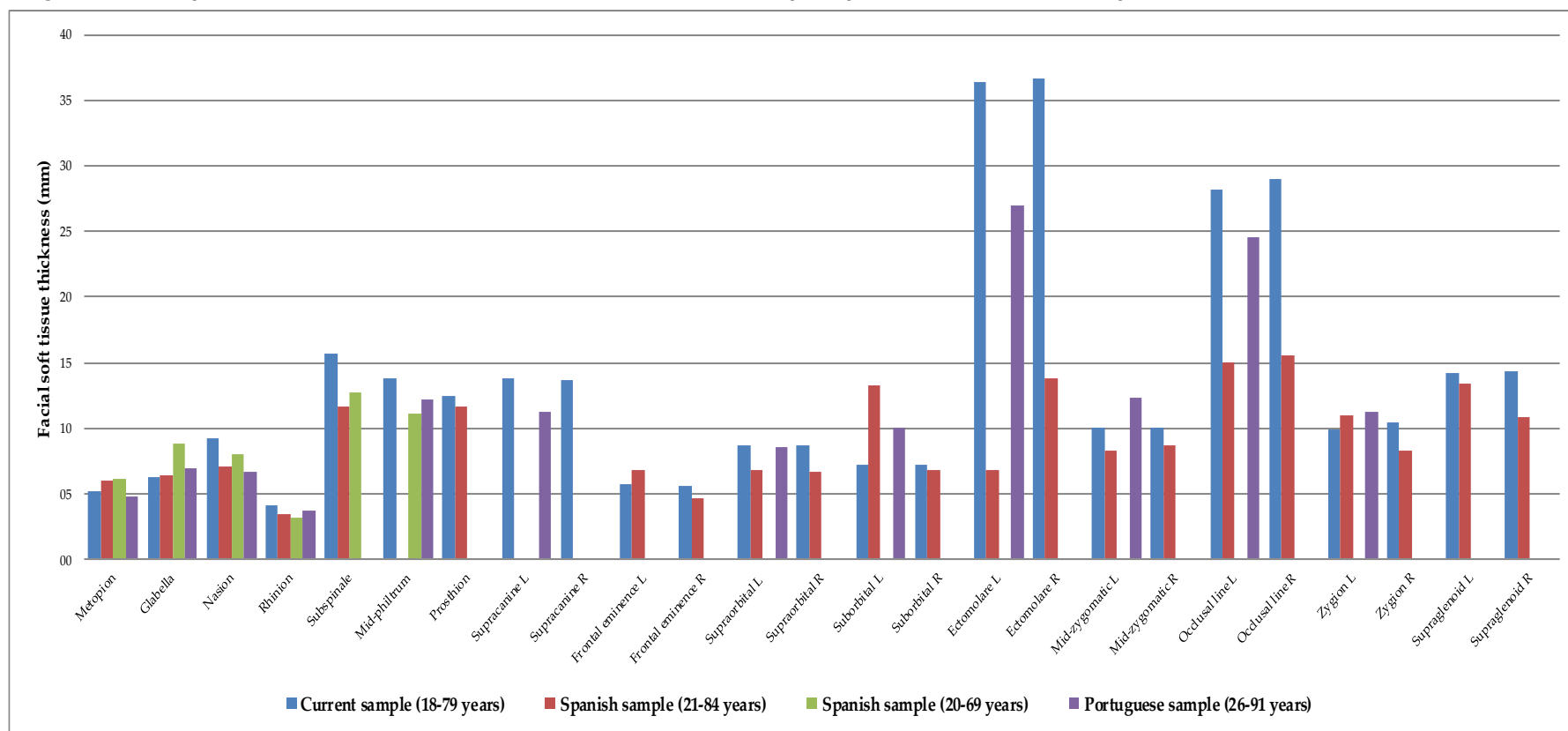
Fig. B.14 - Comparison with Valencia Caballero's and Codinha's samples (males, 25.0 > BMI < 30.0)

Fig. B.15 - Comparison with Valencia Caballero's and Codinha's samples (females, BMI < 20.0)

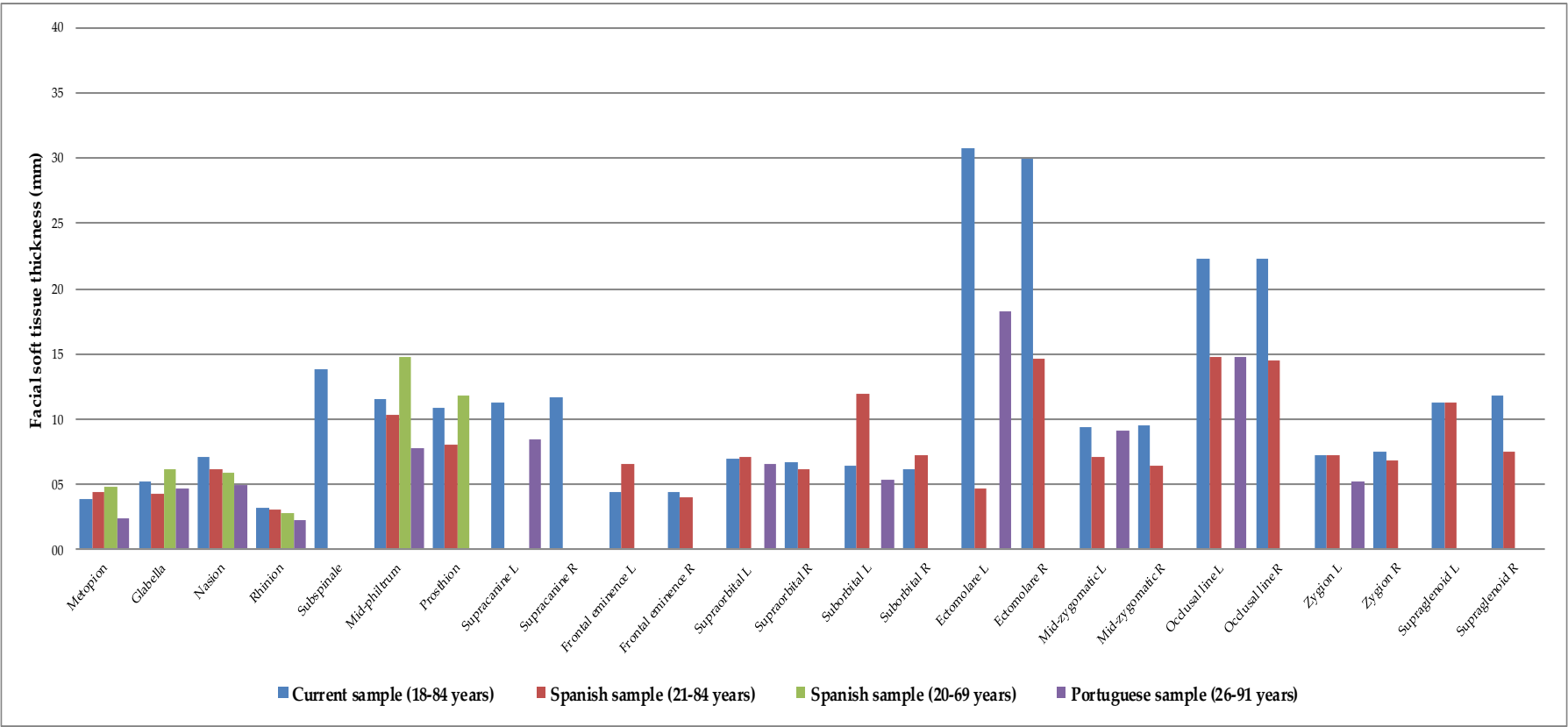


Fig. B.16 - Comparison with Valencia Caballero's and Codinha's samples (females, 25.0 > BMI < 30.0)