

CLINICAL & EXPERIMENTAL
STUDIES.
FROM THE
ROYAL MATERNITY
& SIMPSON MEMORIAL HOSPITAL.

PART II.
Diagrams & Tables.



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GENERAL STATEMENT OF
MANOMETRIC OBSERVATIONS ON THE BLADDER DURING PARTURITION.

No. of Patient	No. of Observations	Name	Age	No. of Labours	Pains commenced		Examined		Condition of Os.	Condition of Membranes	Presentation and Position	Situation of Head.	Limits of Observation		Minutes	Number of Observations	Mercury in Interval	Min. Rise during Pain	Time of Min. Rise	Max. Rise during Pain	Time of Max. Rise	Urine - Obs. -
					Day	Hour	Day	Hour					From	To								
1	1	Mary Calvert	22	I	Aug 30	2 p.	Aug. 30.	7. p.	Dilated	Unruptured	V. LOA.	Cavity	7.20	7.30	10	4	2	3	7.20	.9	7.25	
	2								Dilated	Ruptured			10.45	10.55	10	2		2.4	10.55	2.6	10.45	
2	3	Mrs Jait	37	II		6.15 p.		11.25 p.	Dilated	Unruptured	V. ROP.											
3	4	Helen Hutchison	30	I	" 23.	4. a.	" 23.	12. n.	Crownpiece	Unruptured	V. ROP.	Cavity					2			.2		
4	5	Eliza Chalmers	16	I		10.45 a.		1.15 p.	Crown	Ruptured	V. LOA	Cavity				9	2	.6	12.5	2.7		14
5	6	Ann Burns		I	Sept. 6		Sept. 6.	11.30 a.	Dilated	Ruptured	V. LOA		11.30	12.	30	8	2	.4	11.30	.9	11.50	
	7											Outlet				5		1.9	1.	2.4		
6	8	Margaret Campbell		I			" 13.	12.20 a.	Crown	Ruptured	V. LOA									.3		
	9								Dilated			Outlet.	4.40.	5.25	45	11	2	.7	4	.5	5.10	3
7	10	Bridget McGrath		I	" 21	1. a.	" 21.	1.45 a.	Florin	Ruptured	V. LOA		2.30	2.45	15	5	2	.7	2.42	.5	2.45	
	11								Dilated			Outlet	11.17.	11.37.	20	6	3	2.5	11.17	.5	11.25	
8	12	Helen McAra		I	" 22	9. a.	" 23.	6. a.	Florin	Unruptured	V. LOA											
	13																					
9	14	Janet Dunlop	17	I	" 24	7. p.	" 24	12.30 a.	Dilated	Unruptured	V. LOA		12.30	1.10	40	6	2	.2	12.30	1.5		
	15								Crown	Ruptured		Outlet				5	.8	.8	5.16	1.5	5.16	
10	16	Mary Steven	23	I	" 30	11. p.	Oct. 1.	11. a.	Dilated	Ruptured	V. LOA		11.15	11.22	7	4	5	.1	11.15	.3	11.20	10
	17								Dilated			Cavity	7.7	7.30	23	7	2	.4	7.7	.6	7.20	1/2
11	18	Mary Munro	20	I	Oct. 1.	6. a.	" 1.	2.50 p.	Dilated	Ruptured	V. LOA	Cavity	2.50	3.16	26	7	2	.4	2.50	1.6	3.12	2 1/2
12	19	Susan Wright	19	I				4.35 p.	Crown	Ruptured	V. ROP.	Cavity	4.35	4.43	8	6	2	1.4	4.35	2.4	4.40	1/2
13	20	Margaret Taylor	27	I	" "	12. n.	" "	7.15 p.	Wineglass	Unruptured	V. LOA	Cavity	7.20	7.30	13	5	2	2.5	7.23	3.0	7.29	2
	21								Dilated	Unruptured			11.10	11.27	17	6	1	1.5	11.10	2.5	11.13	
	22								Florin	Ruptured			11.30	11.43	13	5	2	2.5	11.35	3.2	11.35	2
14	23	Mrs. Hamilton	29	II	" 3	10.30 a.	" 3.	4.30 p.	Florin	Unruptured	V. LOA	Cavity	4.45	5.12	27	5	2	.3	4.50	.5	5.0	
15	24	Savina Urquhart	23	I	" 3.		" 4	3. a.	Dilated	Ruptured	V. ROP.	Cavity	3.2	3.18	16	5	3	.3	3.2	2.5	3.13	6
	25								Dilated	Ruptured		Cavity	4.5	4.17	12	5	3	1.	4.5	2.3	4.13	
16	26	Mary Dawson	22	II	" 4	3. a.	" 4	5. a.	Unruptured	V. LOA		Cavity	5.5	5.20	15	2	2	.3	5.10	.6	5.18	1
	27								Shilling			Outlet.	6.30	6.32	2	3	2	1.0	6.30	2.0	6.32	
17	28	Robina Stevenson	27	I	" 3.	9. p.	" 4	8. p.	Shilling	Ruptured	V. LOA.	Brim	8.20	8.30	10	3	2	.7	8.20	.1	8.30	6.
18	29	Margaret Purrie	27	II	" 4	8. p.	" 5	6. a.	Unruptured	V. LOA.		Brim	6.20	6.25	5	3	5	.2	6.23	.4	6.20	1
	30								Dilated	Unruptured		Brim	12.50	1.	10	9.	3	.3	12.50	.3	1.0	3
	31								Dilated	Ruptured		Cavity	4.52	5.17	25	9	3	.6	4.52	2.3	5.14	1/2
19	32	Jane Grant	29	II	" 3.	3. p.	" 5	8.15 a.	Dilated	Ruptured	V. LOA.	Outlet	8.25	8.32	7	4	6	.6	8.30	2.0	8.32	
20	33	Isabella Oliver	34	II	" 8	3. p.	" 8	10.45 p.	Dilated	Unruptured	V. LOA.	Cavity	10.45	11.2	17	5	3	.2	10.45	3.0	11.2	1
21	34	Katherine Wardlaw	20	II	" 9.	8. p.	" 9	8. p.	Unruptured	V. ROP.			11.33	11.4	7	5	2	.3	11.33	.6	11.39	1/2
	35								Dilated	Unruptured			11.50	12.	10	8	2	1.2	11.50	2.5	11.59	
22	36	Mrs Staid	23	II		10.30 p.		10.45 p.	Dilated	Unruptured	V. ROP.	Cavity	10.45	10.52	7	5	2	1.2	10.45	2.3	10.52	2
23	37	Eliza Wilson	20	I	" 27.	9. p.	" 22.	9.50 a.	Florin	Ruptured	V. LOA.	Outlet.	9.50	9.56	6	4	4	1.2	9.50	1.8	9.52	
24	38	Jane Stevenson	20	I	" 28	7. a.	" 28	12.30 p.	Dilated	Unruptured	V. LOA	Brim	12.50	1.8	18	6	2	1.2	1.2	.5	1.8	10
25	39.	Sizzie Purves.	19	II	" 28	12. p.	" 29.	7.25 a.	Dilated.	Unruptured	V. LOA.	Cavity.					3.	1.5		2.0		

TABLE III
 MANOMETRIC OBSERVATIONS ON THE BLADDER IN PARTURITION -
 ARRANGED ACCORDING TO
 ~ Stage and Number of Labours ~

No. of Observ.	Age	No. of Labors	Condition of Os	Condition of Membranes	Presentia and Position	Situation of Head	Urine	Inches	
								1	2
22	27	I	Dilated	Ruptured	V.LOA.	Cavity	2	2	3
2	22	I	Dilated	Ruptured	V.LOA.	Cavity	2	4	5
21	27	I	Dilated	Unruptured	V.LOA.	Cavity	2	4	5
7	19	I	Dilated	Ruptured	V.LOA.	Outlet	1/2	3	4
19	23	I	Dilated	Ruptured	V.ROP.	Cavity	1/2	3	4
25	20	I	Dilated	Ruptured	V.ROP.	Outlet	1/2	3	4
37	20	I	Dilated	Ruptured	V.LOA.	Outlet	1/2	4	5
18	20	I	Dilated	Ruptured	V.LOA.	Cavity	2 1/2	5	6
14	17	I	Dilated	Unruptured	V.LOA.	Cavity	1/2	5	6
15	16	I	Dilated	Ruptured	V.LOA.	Outlet	1/2	4	5
1	22	I	Dilated	Ruptured	V.LOA.	Cavity	1/2	3	4
6	6	I	Dilated	Ruptured	V.LOA.	Cavity	1/2	3	4
9	9	I	Dilated	Ruptured	V.LOA.	Cavity	1/2	3	4
29	27	I	Crown	Unruptured	V.LOA.	Cavity	2	8	9
5	16	I	Crown	Ruptured	V.LOA.	Cavity	1/4	6	7
24	23	I	Flour	Ruptured	V.ROP.	Cavity	6	7	8
17	23	I	Wax	Ruptured	V.LOA.	Cavity	1/2	5	6
10	10	I	Crown	Ruptured	V.LOA.	Cavity	1/2	4	5
38	20	I	Flour	Unruptured	V.LOA.	Brim	10	10	11
8	8	I	Flour	Ruptured	V.LOA.	Cavity	1/2	4	5
16	23	I	Crown	Ruptured	V.LOA.	Cavity	10	10	11
4	30	I	Crown	Unruptured	V.ROP.	Cavity	1/2	4	5
28	27	I	Skilling	Ruptured	V.LOA.	Brim	6	6	7
33	34	II	Dilated	Unruptured	V.LOA.	Cavity	1	10	11
35	20	II	Dilated	Unruptured	V.ROP.	Cavity	1/2	10	11
37	21	II	Dilated	Ruptured	V.LOA.	Cavity	1/2	10	11
36	23	II	Dilated	Unruptured	V.ROP.	Cavity	2	10	11
27	22	II	Dilated	Unruptured	V.LOA.	Cavity	1/2	10	11
32	29	II	Dilated	Ruptured	V.LOA.	Outlet	1/2	10	11
39	19	II	Dilated	Unruptured	V.LOA.	Cavity	1/2	10	11
26	22	II	Dilated	Unruptured	V.LOA.	Cavity	1	10	11
34	20	II	Dilated	Unruptured	V.ROP.	Cavity	1/2	10	11
23	29	II	Flour	Unruptured	V.LOA.	Cavity	1/2	10	11
29	21	II	Skilling	Unruptured	V.LOA.	Brim	1	10	11
30	24	II	Skilling	Unruptured	V.LOA.	Brim	3	10	11

DILATED PRIMIPARAE

UNDILATED PRIMIPARAE

DILATED MULTIPARAE

UNDILATED MULTIPARAE

TABLE V.
 MANOMETRIC OBSERVATIONS ON THE BLADDER IN PARTURITION
 ARRANGED ACCORDING TO
Quantity of Urine in the Bladder

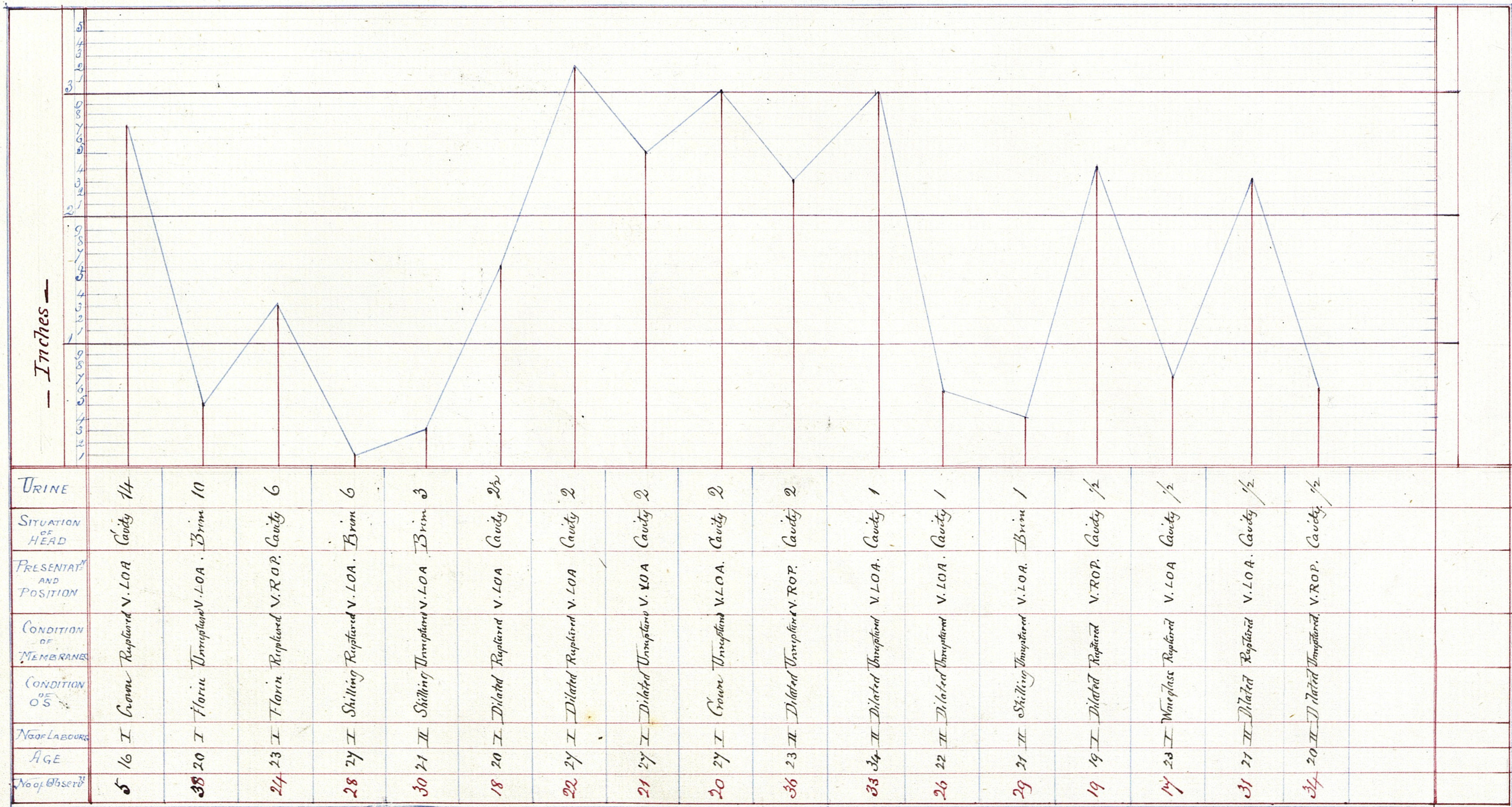


TABLE VI.
 MANOMETRIC OBSERVATIONS ON THE BLADDER IN PARTURITION
 Showing Pressure per square inch of Bladder Area
 A. Unclitulated Primiparae.

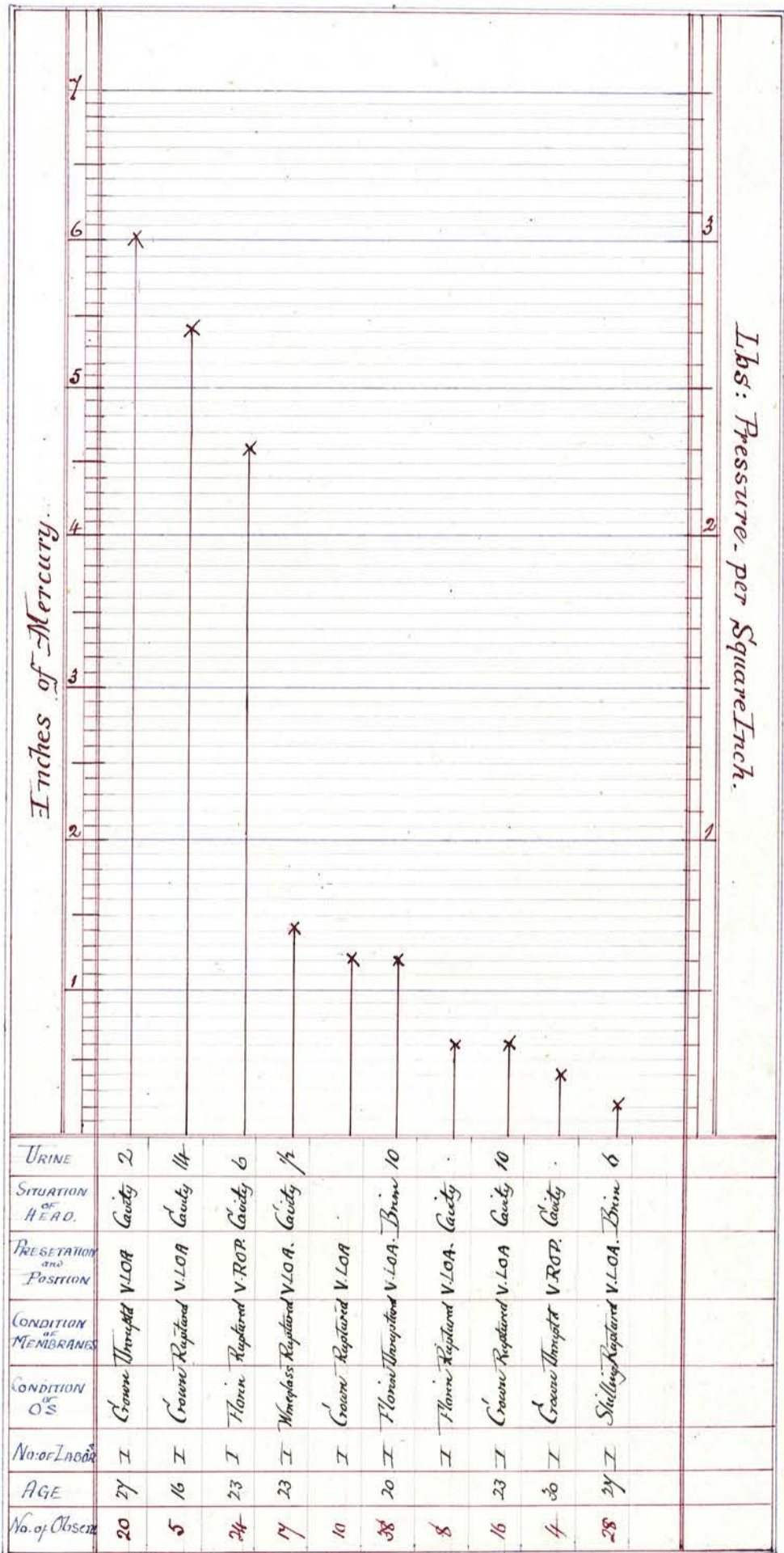


TABLE VII.
 MANOMETRIC OBSERVATIONS ON THE BLADDER IN PARTURITION.
 Showing Pressure per square inch of Bladder Area
 in Dilated Primiparæ

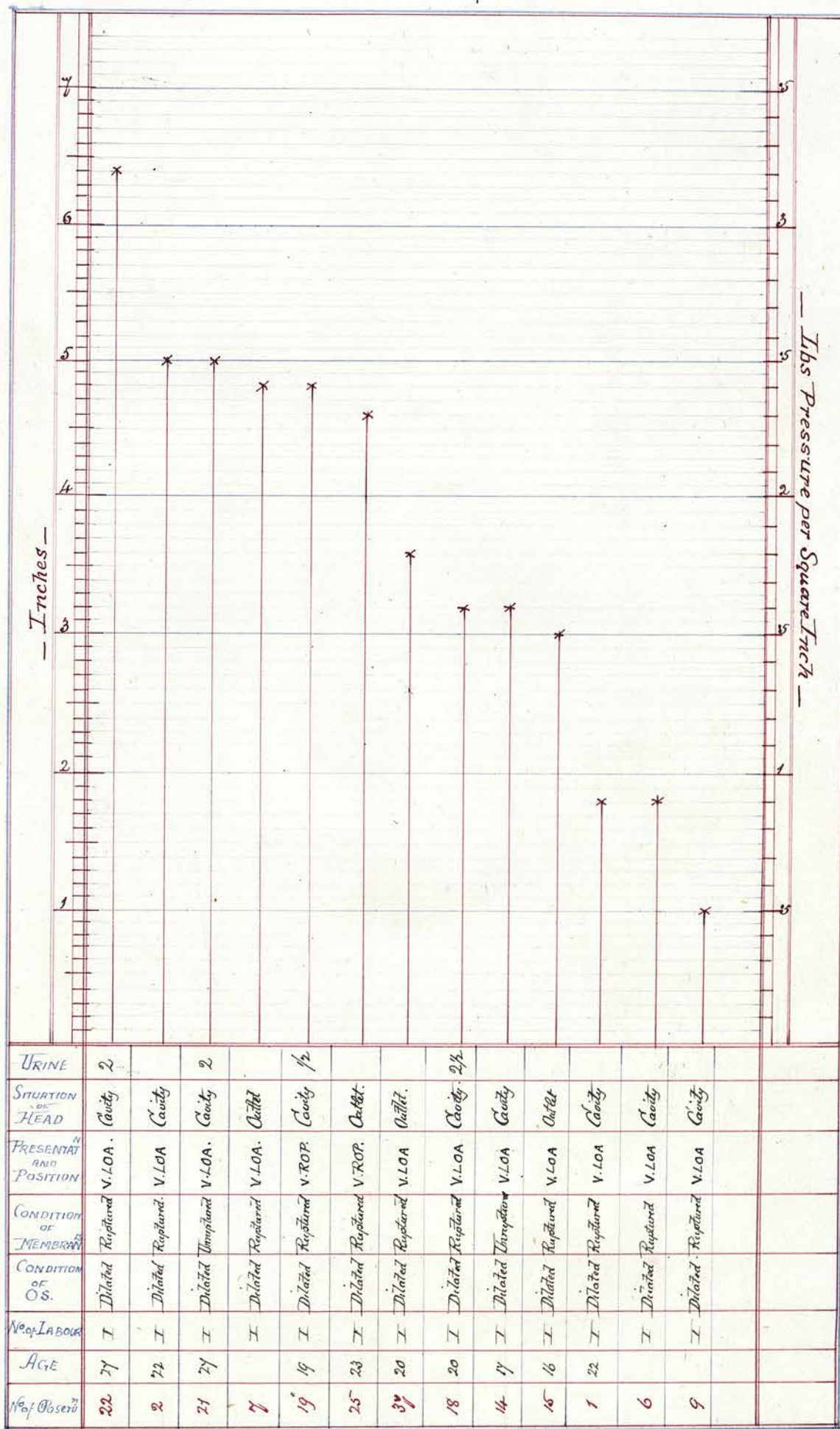
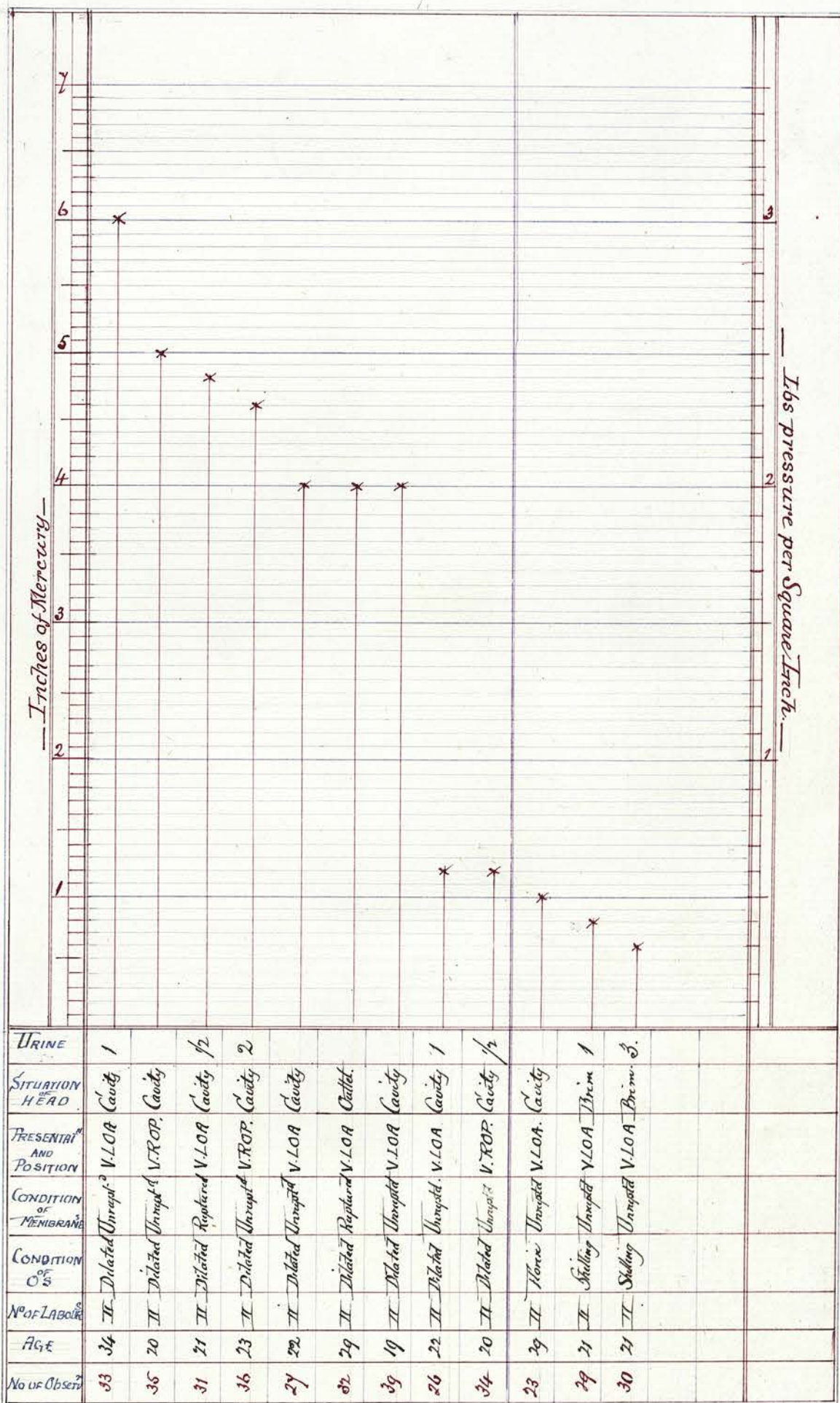
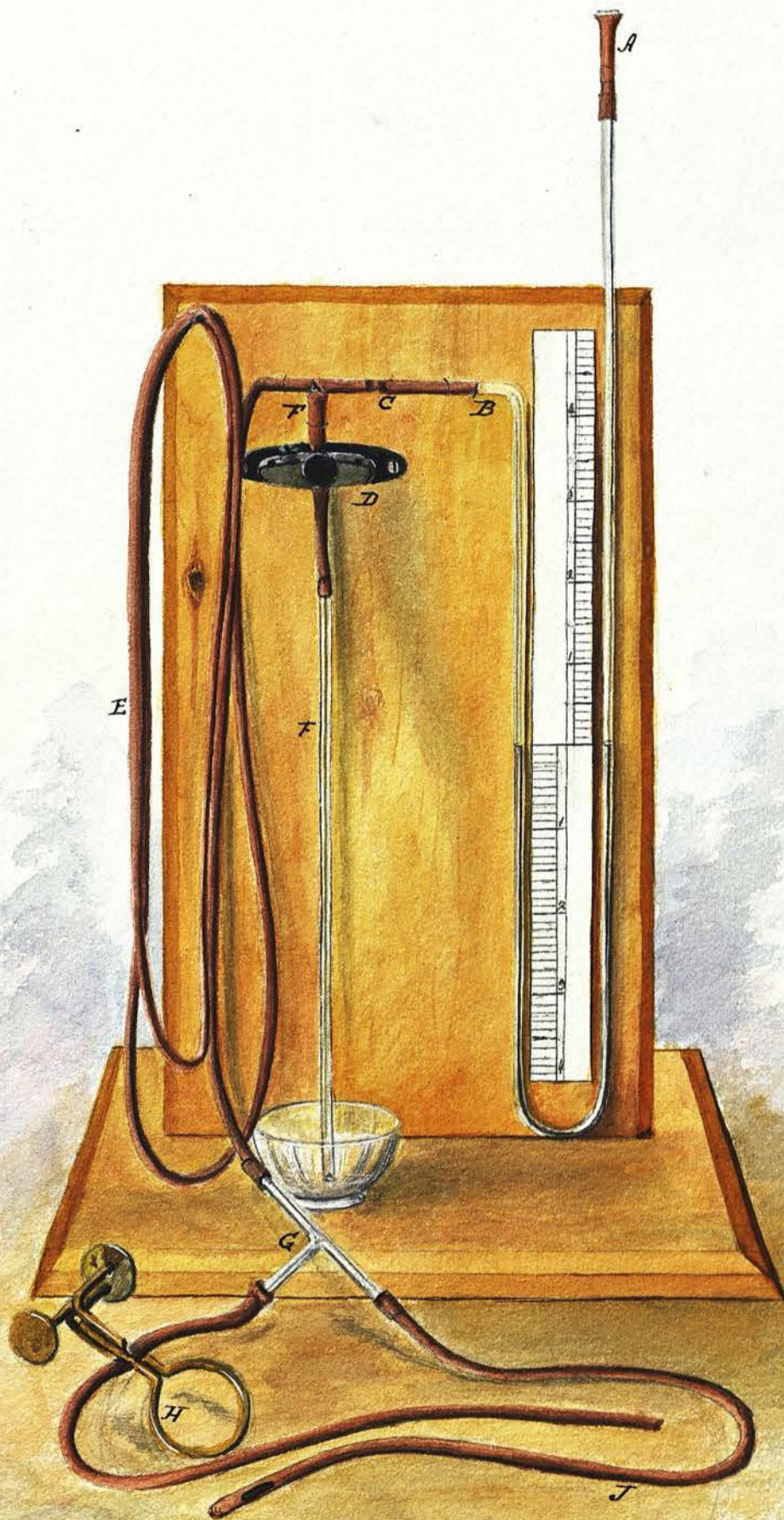
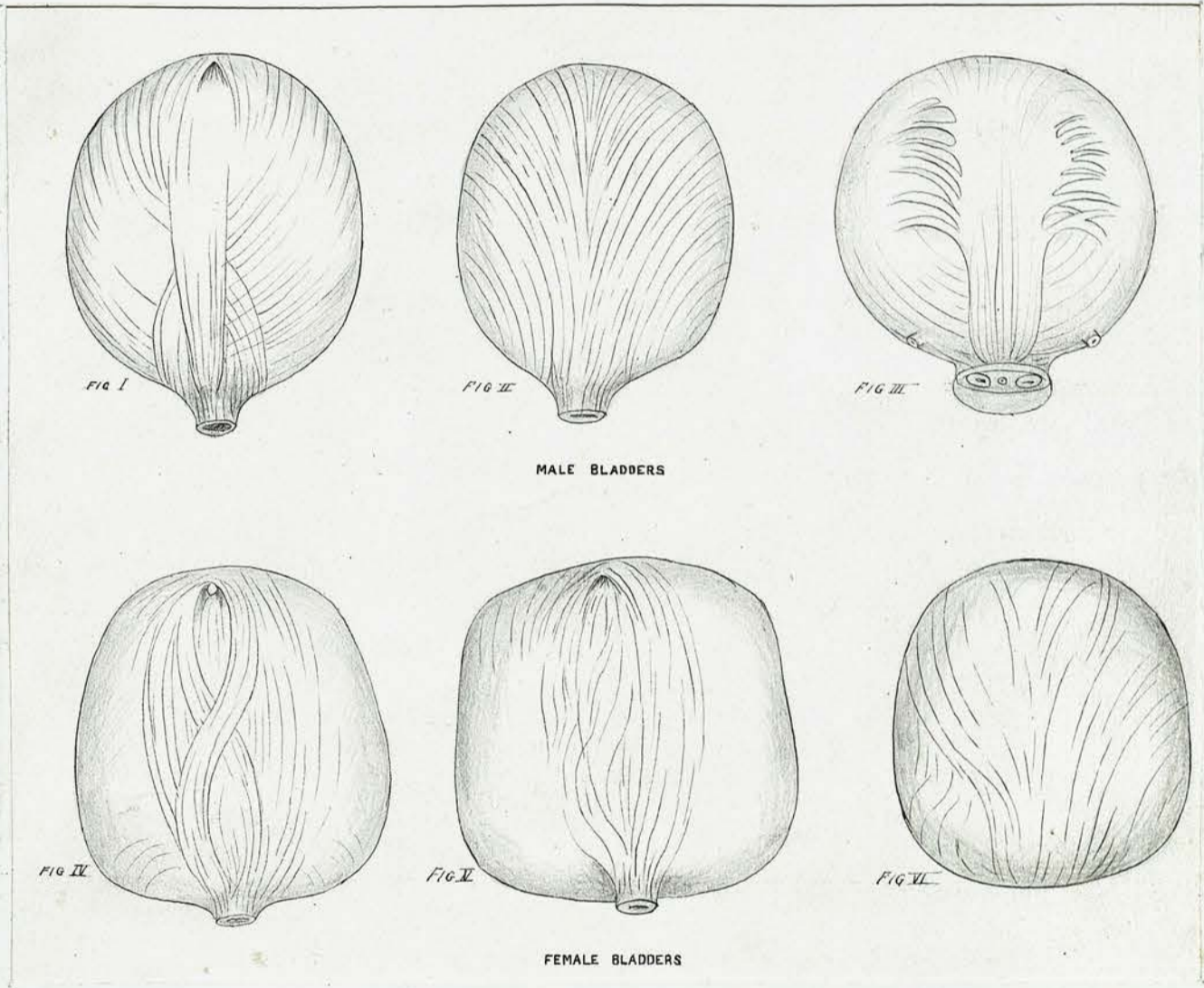


TABLE VIII.
 MANOMETRIC OBSERVATIONS ON THE BLADDER IN PARTURITION.
 Showing Pressure per square inch of Bladder Area
 ~ c: Multiparæ. Dilated and Undilated ~

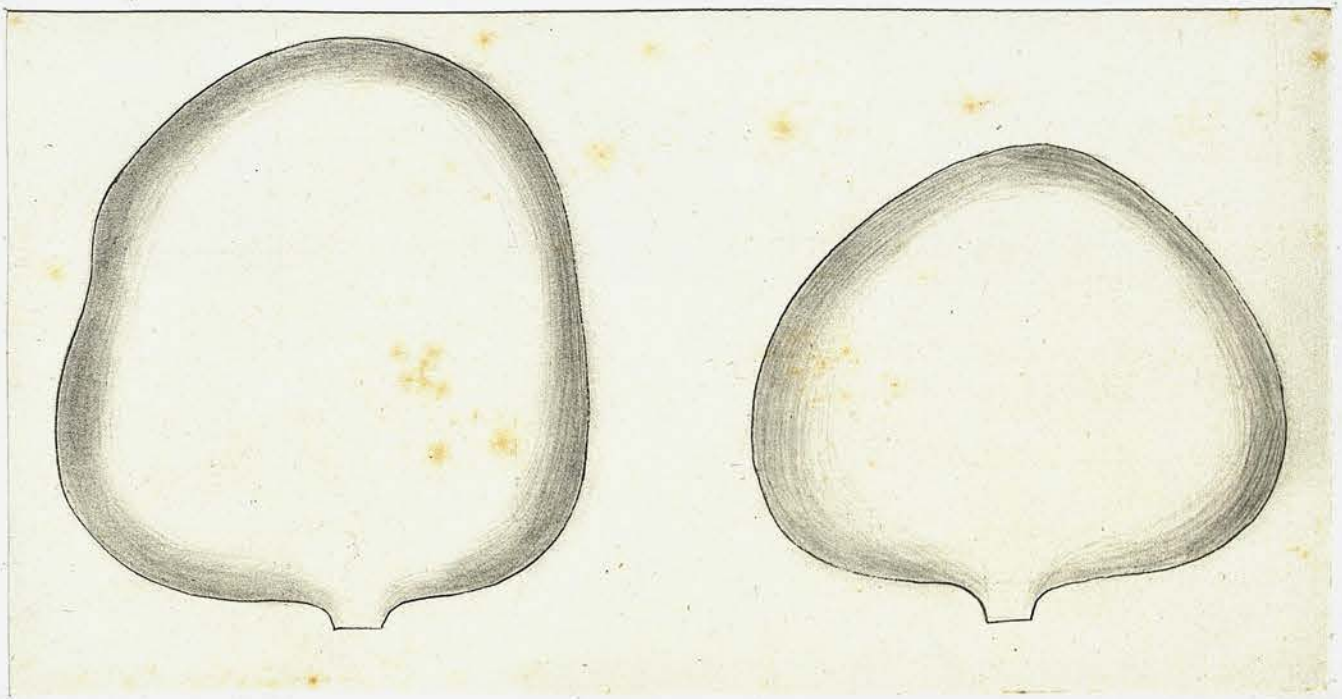




THE MANOMETER AS EMPLOYED IN THE EXPERIMENTS.
The Letters are referred to in the Text.

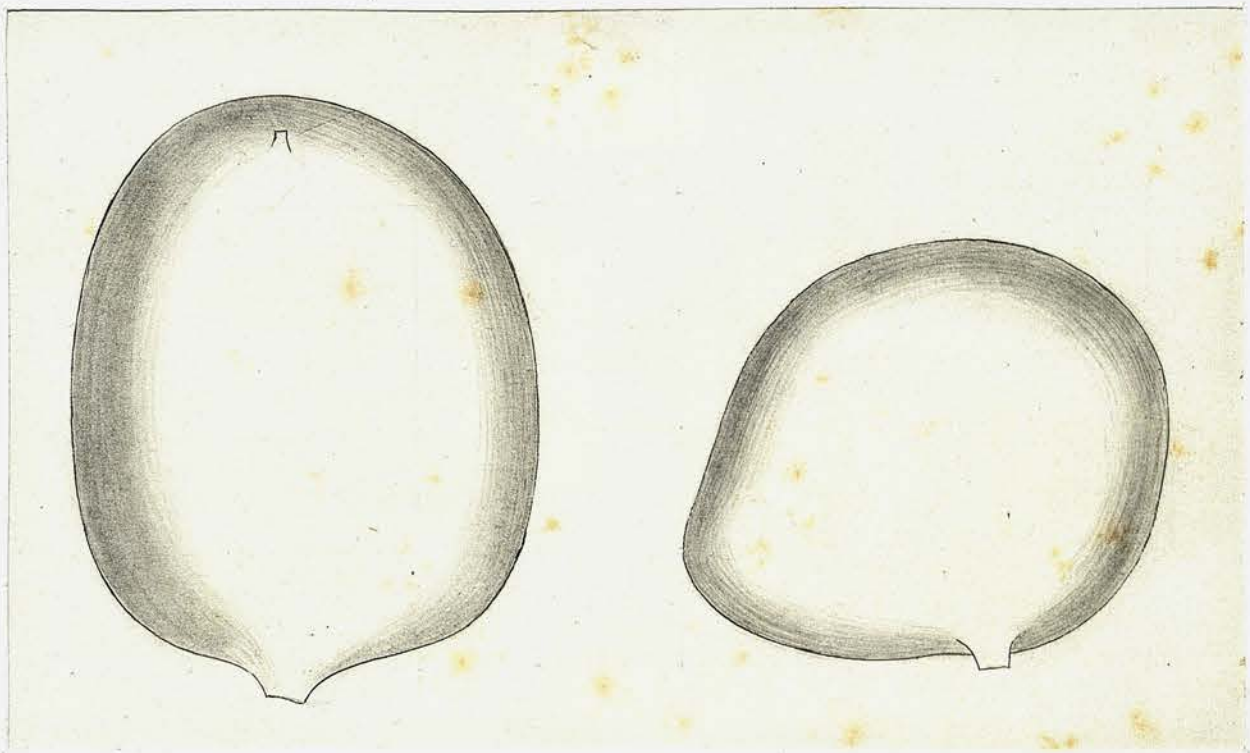


COMPARISON OF SHAPE OF MALE & FEMALE BLADDERS.

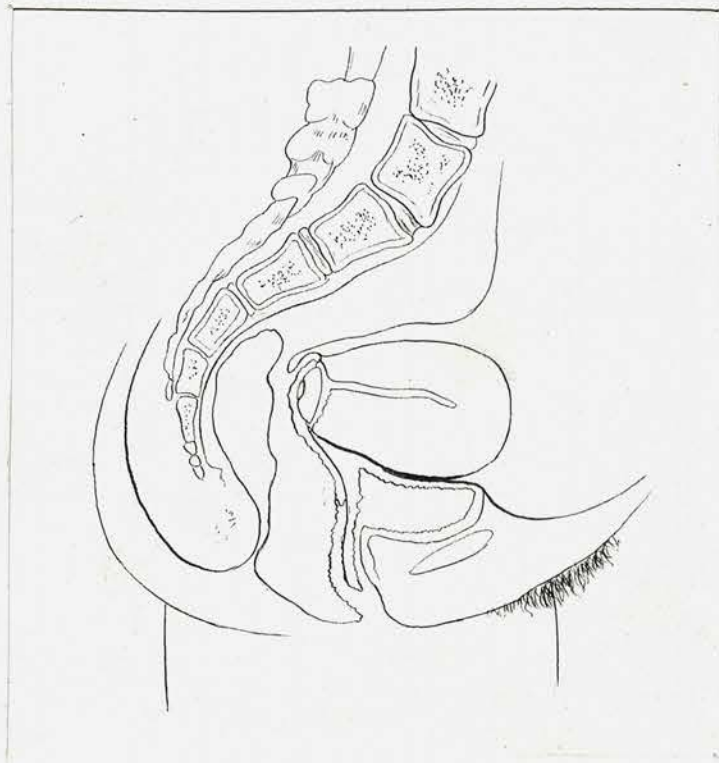


SHewing **A**SYMMETRY & **F**LATTENING OF **B**LADDERS OF **M**ULTIPARAE.

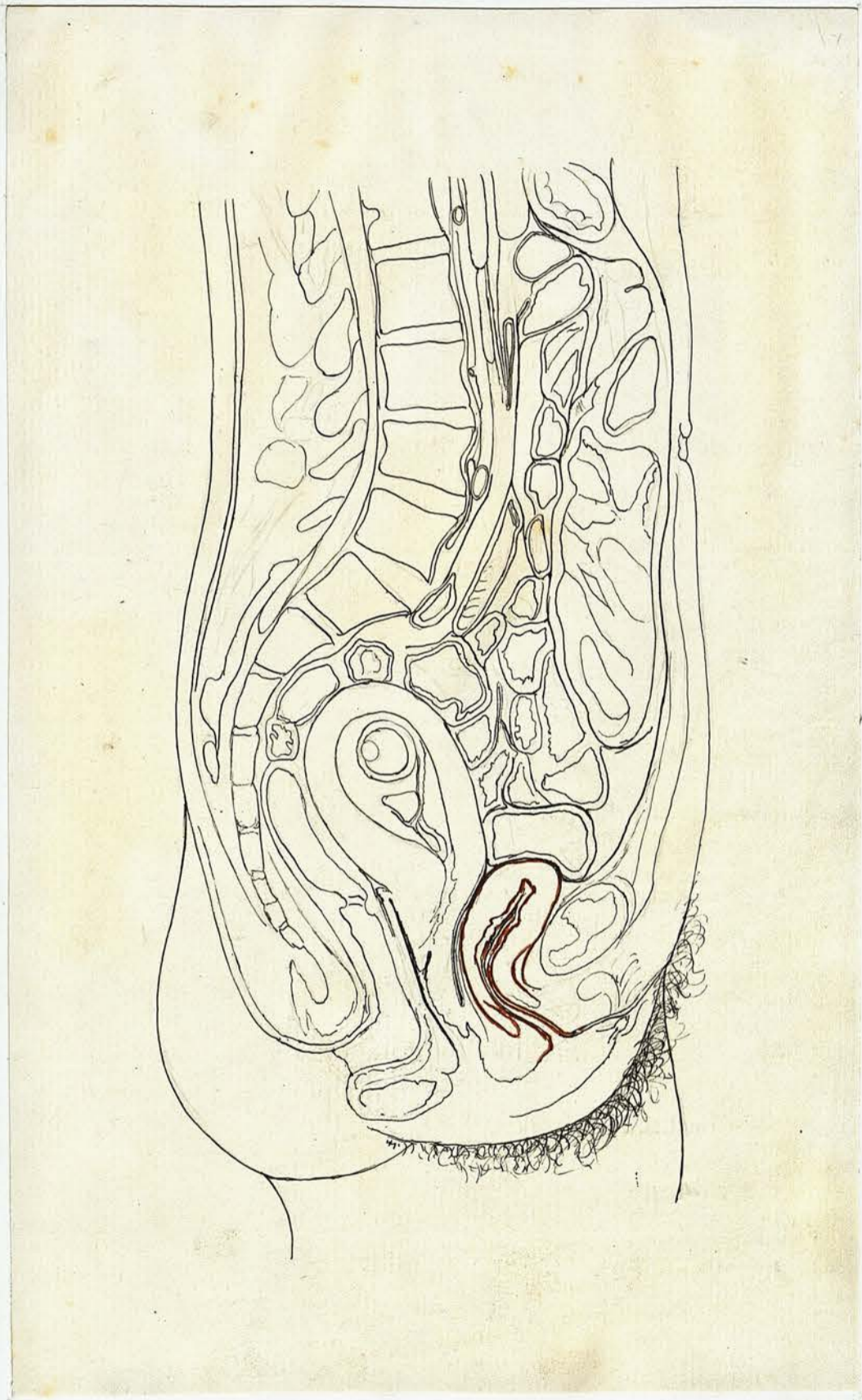
(Barkow)



ASYMMETRY & FLATTENING OF FEMALE BLADDER.

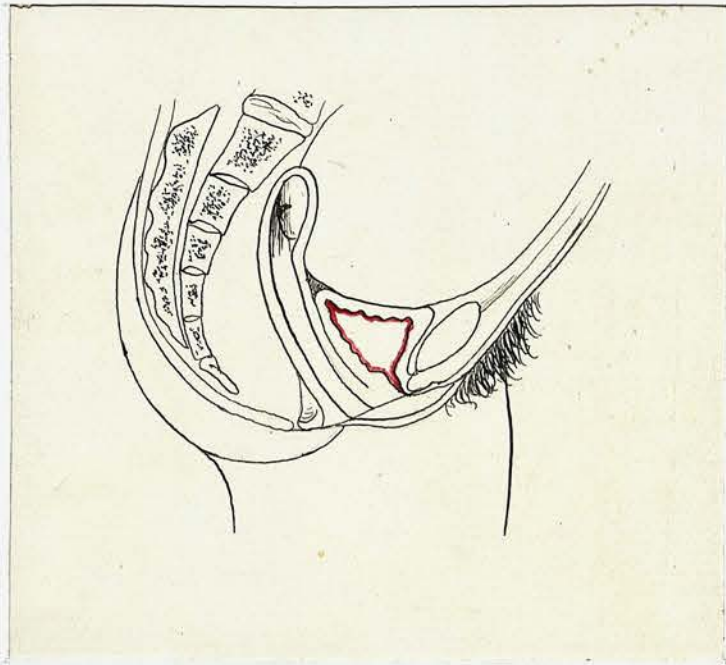


RELATION OF UTERUS AND BLADDER IN EARLY PREGNANCY.

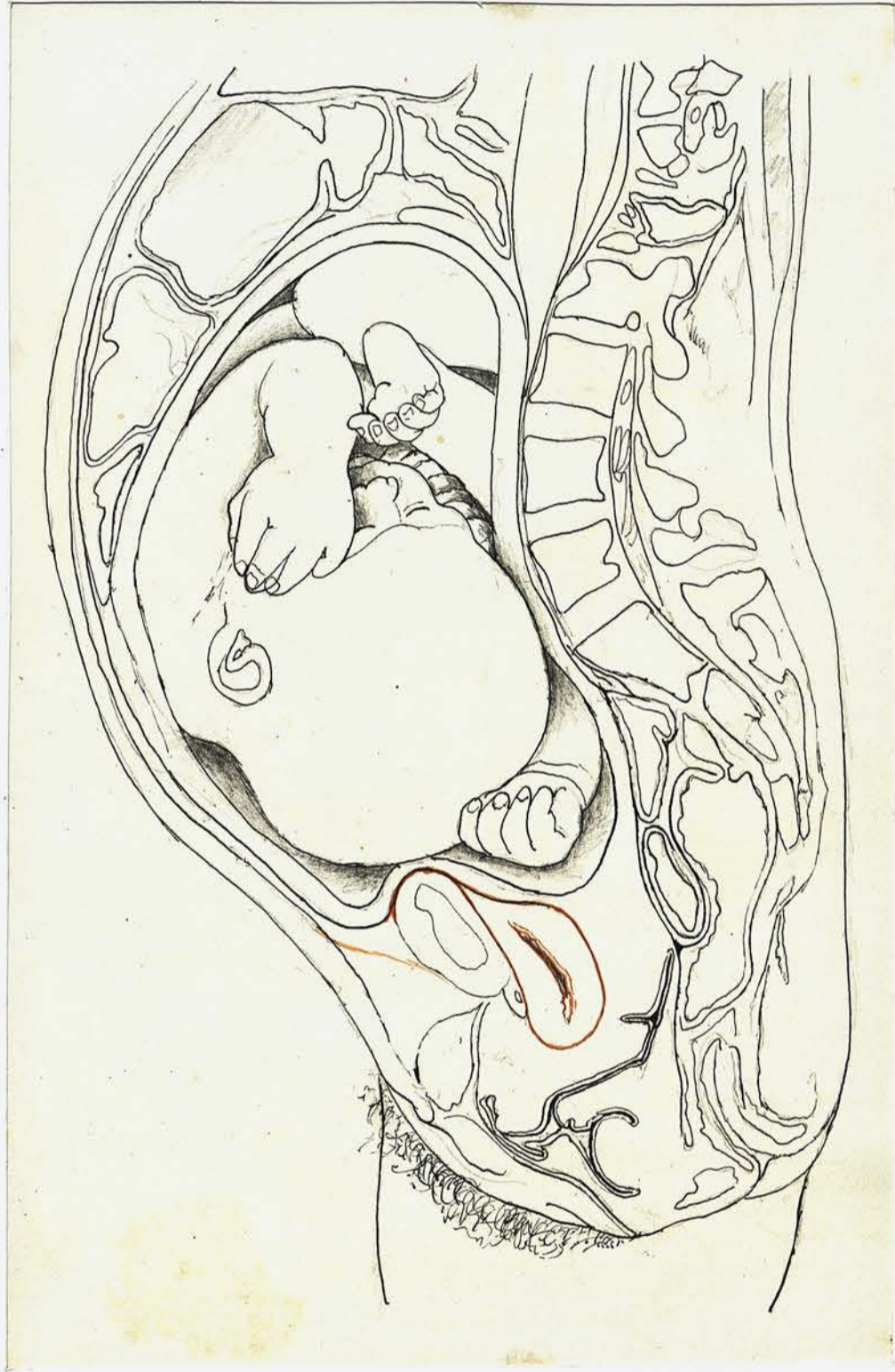


RELATION OF UTERUS AND BLADDER IN EARLY PREGNANCY.—UTERUS INCLINED BACKWARDS.

(Braune.)

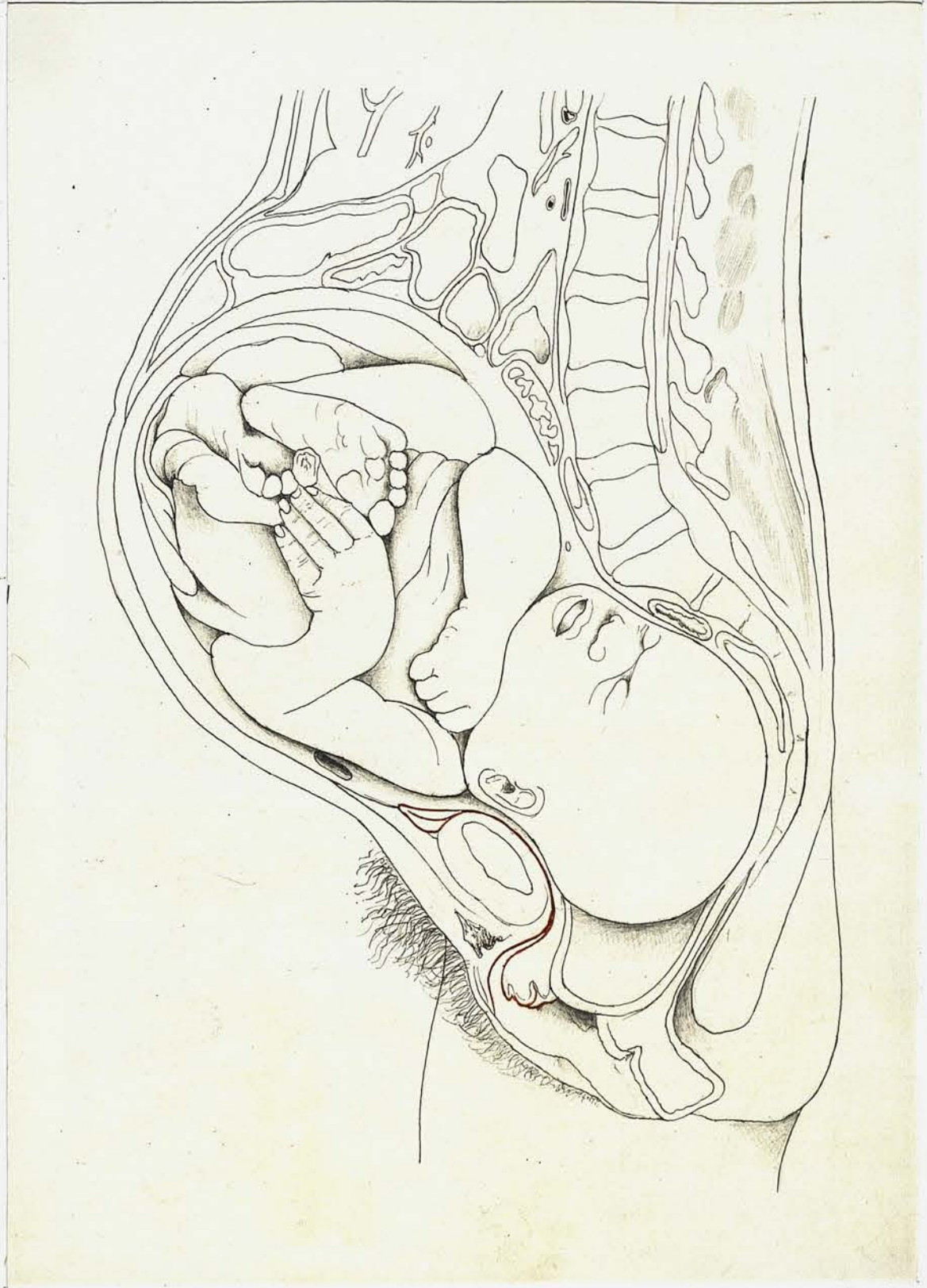


RELATION OF ANTERIOR SEGMENT OF UTERUS TO BLADDER.

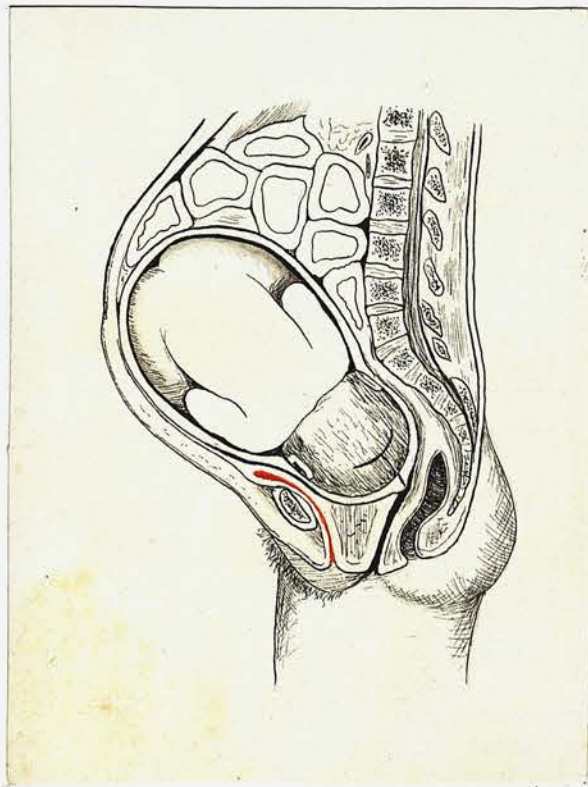


POSITION OF BLADDER AT THE END OF PREGNANCY & BEFORE THE ONSET OF LABOUR.

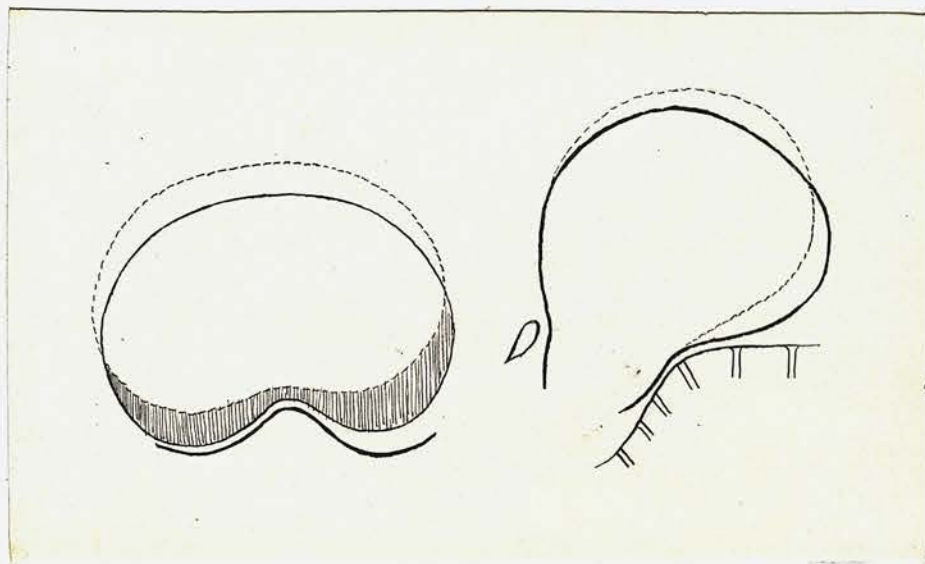
(Braune)



POSITION OF **B**LADDER & **U**RETHRA **D**URING **L**ABOUR.



POSITION OF BLADDER IN FIRST STAGE UNDILATED OS.—CERVIX THINNED OUT OVER HEAD.

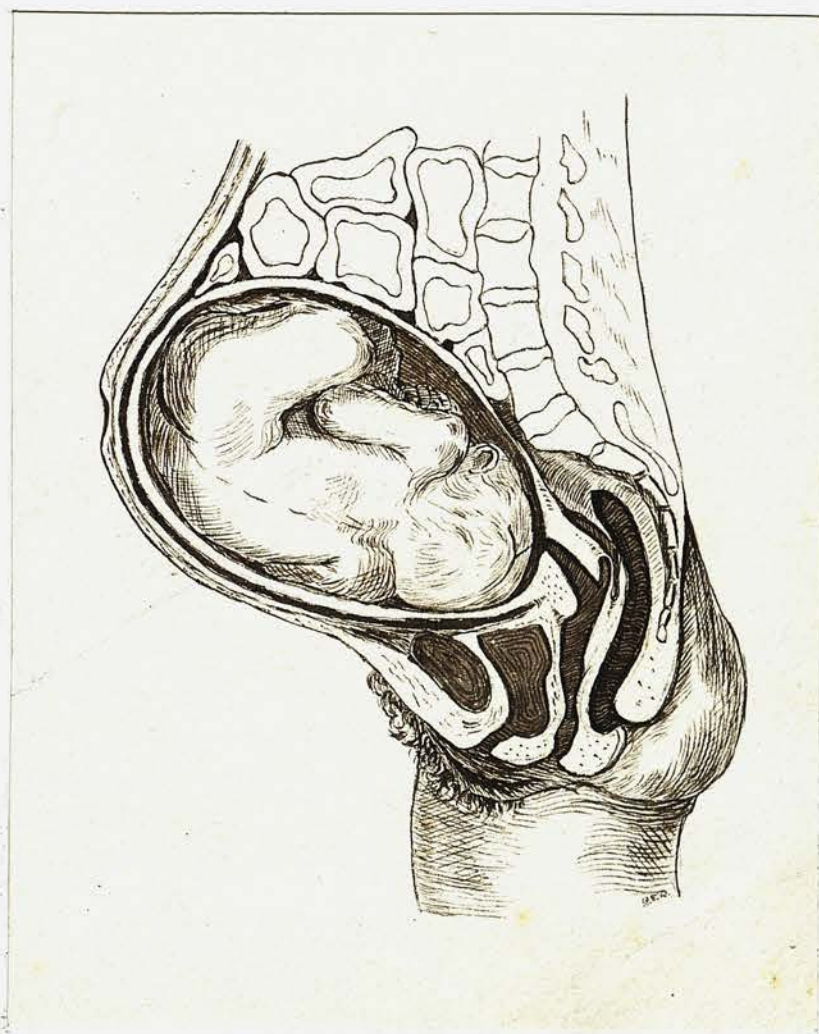


ALTERATIONS IN FORM & RELATIONS OF UTERUS DURING LABOUR.

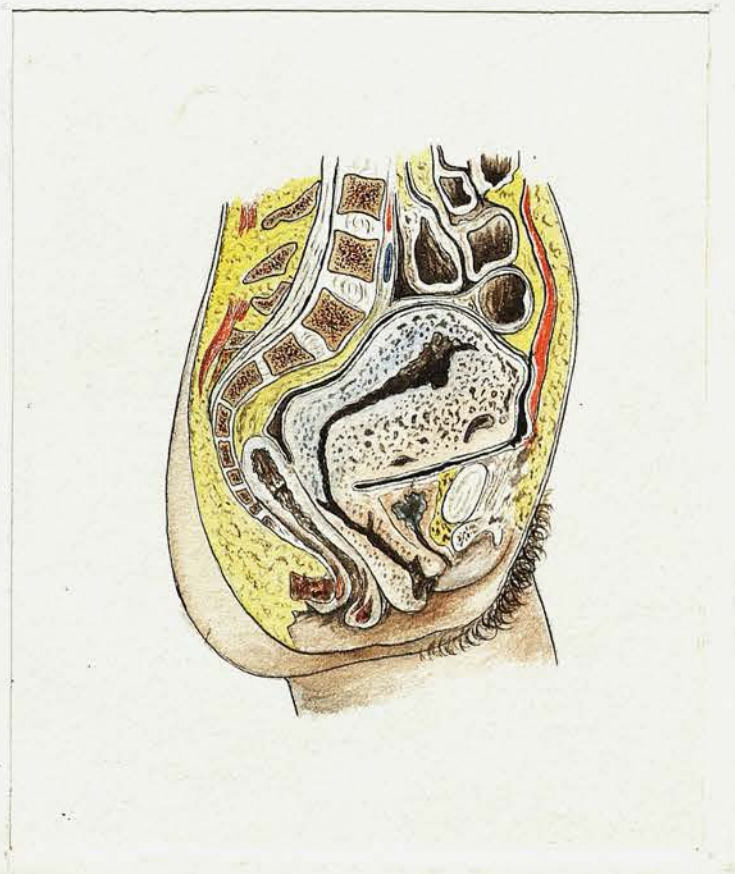
(Lahs)



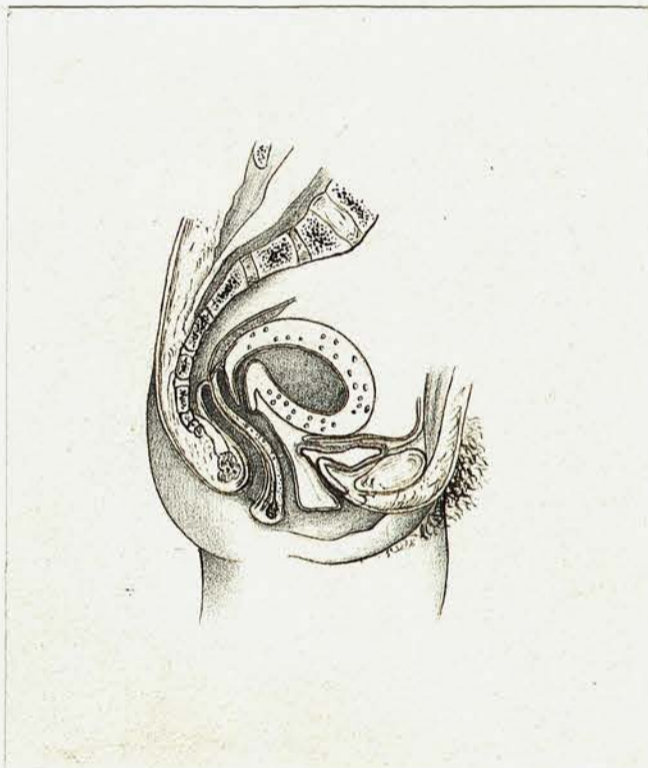
POSITION OF HEAD IN A PRIMIPARA.



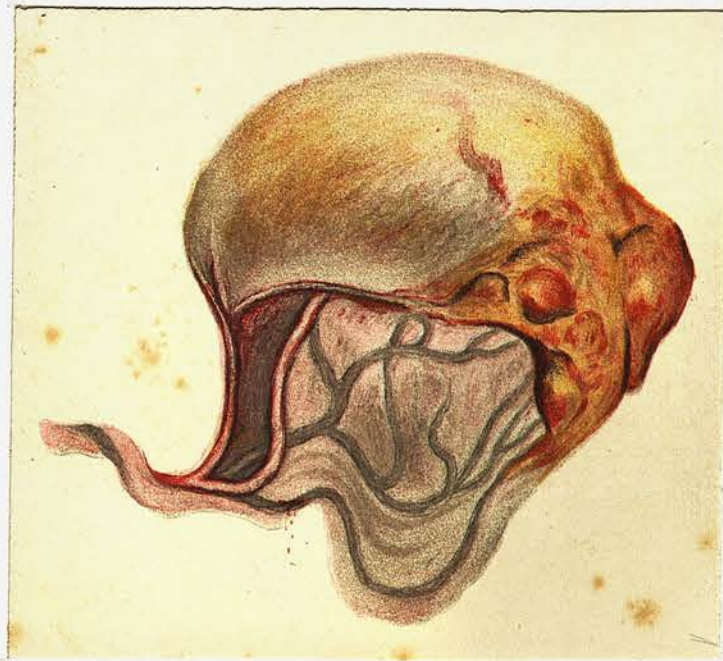
POSITION OF HEAD IN A MULTIPARA.



POST PARTUM UTERUS, POSITION OF BLADDER.



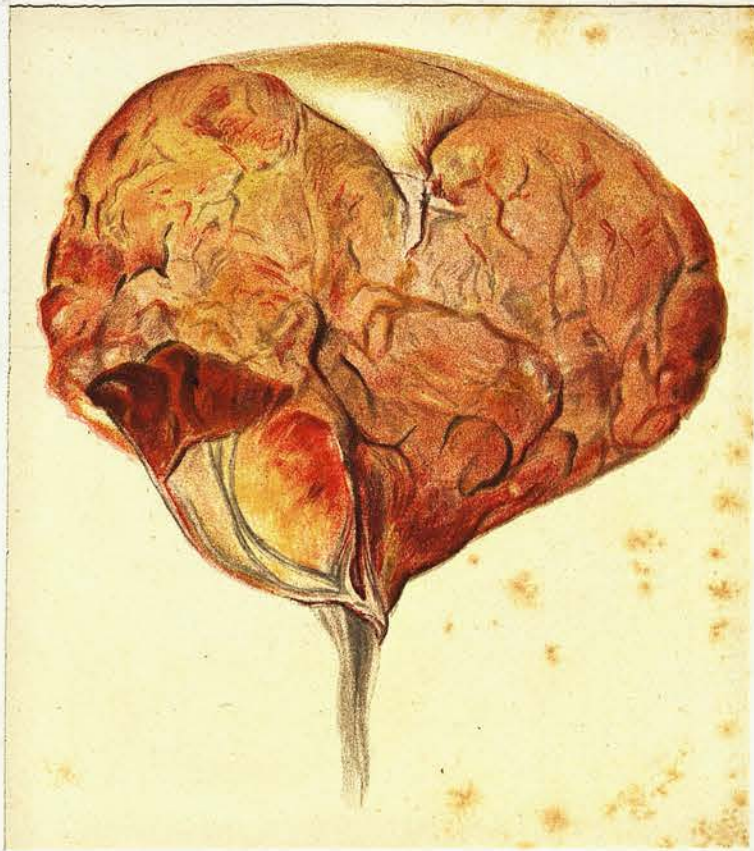
POST PARTUM UTERUS AND ITS RELATION TO BLADDER.



PLACENTA FROM CASE I.

Fœtal Surface Shewing

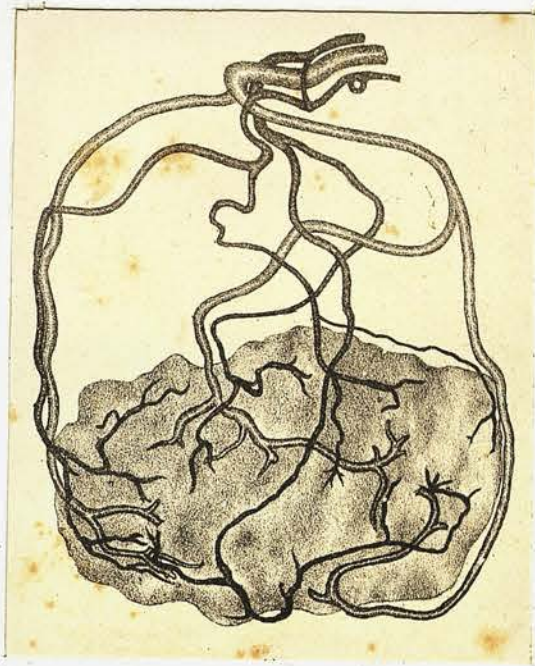
1. VELAMENTOUS INSERTION OF CORD.
2. TORTUOUS CONDITION OF VENOUS TRUNK.
3. LACERATION OF 1ST BRANCH OF UMBILICAL VEIN.



PLACENTA FROM CASE I.

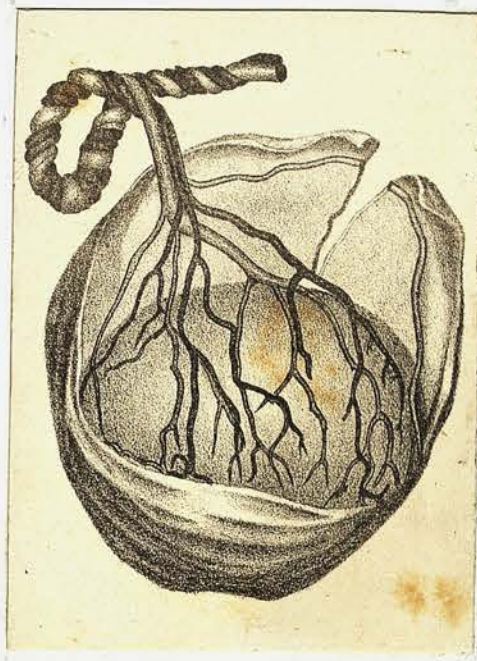
Uterine Surface of Placenta Shewing

1. MARGINAL INSERTION OF CORD.
2. SEPARATED EDGE OF PLACENTA AT OS UTERI INTERNUM.



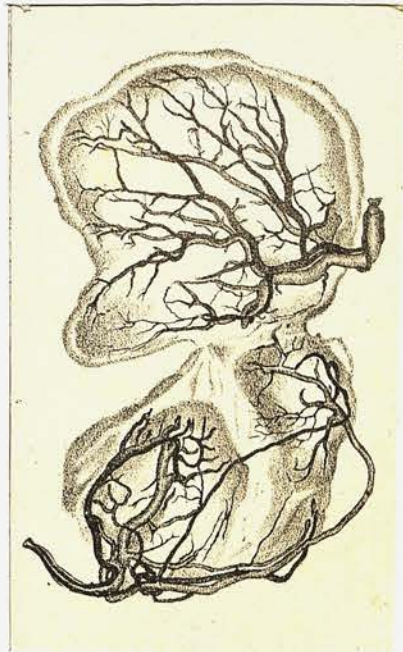
VELAMENTOUS DISPOSITION OF FUNIC VESSELS.

(Hyrtyl.)



VELAMENTOUS INSERTION OF CORD SHEWING A RUPTURED VAS ABERRANS.

(Bendisier.)



SUBSIDIARY PLACENTA WITH BOW-SHAPED SUBSIDIARY VESSELS.

(Hyrtyl)