

Thesis for M.D. Degree (Aug/1890)

on

Typhoid Fever & its Treatment (with cases.)

by

Francis Turner Smith. Canada. M.B. & Ch. 1887.

Sustained

H.D.



^{2d} Typhoid Fever and its treatment
(with cases.) (Key)

Gaius Turner Smith. Canada, M.B.C.M. / 889.

In thinking over subjects for a thesis during the last few months I have met with many obstacles. I have found it practically impossible to take up any scientific subject, because of lack of recent literature at my disposal & want of opportunity to conduct investigations along any definite lines. Practising as I am, in a small town quite out of reach of medical schools, hospitals & laboratories. In view of these difficulties, for want of time for the practical benefit which I will derive from it. I have decided to take up some of the more interesting cases which have occurred in my practice and of which I have taken some notes and shall endeavour to make out a sort of clinical report. As I have had about the longest experience with Typhoid fever of any thing I shall begin

with that subject & if I have any space left may have something to say on Antifebrile & Influenza.

Moncton, the town in which I am practicing, is situated in New Brunswick, Canada, & has a latitude of about 46. 20' N. It has a population of about 9,000 & has sprung into existence since about 1873, when it became a railway centre. The climate is pretty hot in July & August, but clear & bracing, while during December, January, & February, it is very cold, sometimes going as low as 10 or 12° below zero. There is usually a good deal of rain in the early spring & autumn, but very little during the summer & winter. The situation of the town is rather flat, not being more than 20 or 35 feet above high water level. There is a tidal river in front of the town, which opens into the Bay of Fundy. The tide has a rise & fall of about 30 feet, but there is always a channel flowing even at low tide. There is a gentle slope towards the river, which affords excellent opportunities for drainage. The soil is a heavy clay, so that the surface water runs along the top of the ground & between

the different strata until it reaches the shallow wells with which the town abounds. This well water is pretty largely used for drinking purposes still, as it is very clear, while that brought into the town from the reservoir some 3 miles away has a dark color, and as a result not a few of those who persist in drinking the well water fall victims to Enteric Fever, which has been very prevalent here during the last 8 or 9 years.

The town is now being sewered as rapidly as the Finance will warrant & it is being noticed that in those streets where the sewers have been put in, the closets & drains properly arranged & trapped & the town water introduced, that Fever is becoming less & less each year, while it rages worse in the older parts of the town where no sewers yet & well water largely used for drinking. There were more cases here in '87 than in '88, & more in '88 than in '89, although the population increased by 700 or 800 each of these years. The summer of '89 was a very hot & dry one & there was very much more Fever in the rural districts, than in '88; in fact, Typhoid was very prevalent all over America last summer.

year should therefore have I feared more cases in town than on the previous year as it was a wet cool summer, but instead of an increase we had a very large decrease in the whole town, although there was more in some of the streets, where the well water was used. We trust that in a few years the Public Health Board, will take steps to close up the wells & that with the town water in general use & a completed system of Sewers. Typhoid which has been so prevalent here of late will cease to find in Moncton a suitable medium for the propagation of its germs & a ready carrier of them from the privies to the wells & from thence to the intestines of her Citizens.

The Drainage System will be a very complete one, when finished & excellent opportunity is afforded by the river for the carrying away of the sewage. In the older parts of the town ^{in the front of} each house has its "W.C." & probably in the corner of the lot a few yards distant will be found a well about 12 feet deep, supplying some 3 or 4 families in the immediate neighbourhood & receiving the sewage from

as many Coes. & probably a born or two
 The only thing I wonder at is that there is
 not more fever here.

They have no reliable or satisfactory
 system of reporting cases here as yet, so
 I can't get any reliable statistics. There
 seems to have been somewhere in the vicinity
 of 350 cases here in 1887 & about 270 last year
 on inquiry of the two eldest M.D.'s here
 if they have had a mortality of about
 one in 9 or 10. During the 2 Summers
 that I have been here I have treated 43
 cases of well marked typhoid & have
 been so fortunate as not to have had
 a single death and only one relapse.
 The first cases usually appear in July but
 September & October are the months during
 which it is by far the most prevalent it
 gradually decreases during November
 until by Christmas it has about died
 out.

General Symptoms:-

The symptoms observed in the cases which come under my care during the last 2 summers were about those ordinarily described as being present in Typhoid. They usually complain of severe headaches, pain in back & limbs, rigors, general malaise, loss of appetite, insomnia, restlessness, & sometimes vomiting & gastric disturbances. They usually have a furred tongue with red tip & margins, the rash is often present & tenderness with fungling in right iliac fossa, often present but more frequently absent. The breath has a very peculiar odour which I think upon as almost diagnostic of Typhoid; sore throat has been present in nearly every case, Delirium is often present though I think it can be largely prevented by antipyretic & sedative or stimulant medicine as the case seems to require. I have noticed constipation present in most of my cases which come under treatment early in the disease, while diarrhoea has been the rule in those not seen until later in the disease. I have not had any cases of perforation, Peritonitis, or haemorrhage from bowel

and only one of relapse & one with
haemorrhage from throat.

General Management & Treatment:

Before taking up my cases in
detail I will say a few words about general
treatment. I like to have a good airy room
with cross ventilation if possible. Not too
many nurses & only one to be responsible
for the medicines & diet. I usually disinfect
the stools with Condy's fluid & chlorid of lime.
Let them have lots of water, Imperial to be
drank, give them $\frac{1}{2}$ tumbler or so of
milk, either clear or diluted with water or
lime water, every two hours or so. May also
give some beef tea, chicken broth, strained
gruel, if bowels are costive, but must
watch bowels. Relieve tympanitis with
hot cloths, opium, or with warm enemata.
Reduce temperature, relieve headache,
& induce sleep with Antifebrine & tepid
sponging with alcohol & water. Treat the
insomnia & delirium with antifebrine
chloral & bromide or in some cases opium
or paraldehyde seems to answer better.
For perforation or peritonitis give opium
in large doses, for haemorrhage, Ergot,
Hamamelis, Gallic acid & opium for gastric

Catarrh give Bismuth & Pepsin & sometimes a
 little Pulv. Opii; Diarrhoea with Dr. Opium
 & starch Enemata; Constipation with an
 Enema of warm water Every 2^d day. For Chest
 Complications use Expectorants & Counter irritants
 Cardiac weakness with stimulants, Digitalis
 &c. I very often give small doses of
 Digitalis right through the entire course
 of the disease & find it satisfactory.
 After the temperature falls I usually give
 well beaten Egg & milk mixed together in
 proportion of 1 of Egg to 4 of milk. It is usually
 well borne & agreeable to him, also some
 corn porridge that is porridge made from
 granulated ^{Indian} corn meal or maize, which I don't
 think you have in C.B., but which is plentiful
 in Canada & seems very good in these cases.
 also light pudding, corn starch &c. Oysters
 & after 10 or 12 days some fish & chicken

I shall now take up some of my
 cases which were situated so that I
 could take their temperatures at least
 once a day & of which I have kept
 notes & charts. These notes are not
 nearly so full in my earlier cases as
 they are in the later ones for various reasons.

I have kept notes of about 28 out of my 43 cases. After I have described my cases in some detail I will endeavour to make some comparisons & give a table showing complications re. I shall also try to arrive at some line of treatment which would seem to give the best results.

In the following cases where no time of day is mentioned for temperature - noon is meant

I would especially call your attention to following cases as about the most interesting

Case <u>IV</u>	page 16
" <u>VIII</u>	" 22
" <u>XI</u>	" 31
" <u>XII to XVIII</u>	" 35 et seq.
" <u>XIX</u>	" 38

Case T. F. R., age 17. Clerk Male.

First seen on Aug 5th / 88.

Has been ill 8 or 9 days, face flushed, tongue yellowish brown coat over it, headache had been severe but much better, Had rigors & chills, gurgling present in iliac fossa on pressure & rose spots over abdomen. Breath has peculiar odour. Temperature in afternoon 103° & pulse 93. put him on mild diet & ordered 5grs Quinine & 10mc acid with hydrochloric dil. Every 6 hours.

His temp kept regular at 103 in evening & 102 in morning until 13th when it ran up higher.

Aug 14 - Last evening temp $103\frac{3}{4}$ & gave him 5grs Antifebrine it fell to 102 & ordered 5grs more for 5 A.M. when I saw him at 10 a.m. temp was $101\frac{3}{4}$. He slept well & felt better.

15th Temp $102\frac{1}{4}$ at noon & gave 8grs Antifebrine. In one hour temp - had fallen to $100\frac{1}{2}$ & pulse from 82 to 73 - perspiring profusely.

16th Aug tongue moistening & clearing at edges feels better, sleeps well. No antifebrine but still getting Quinine mixture.

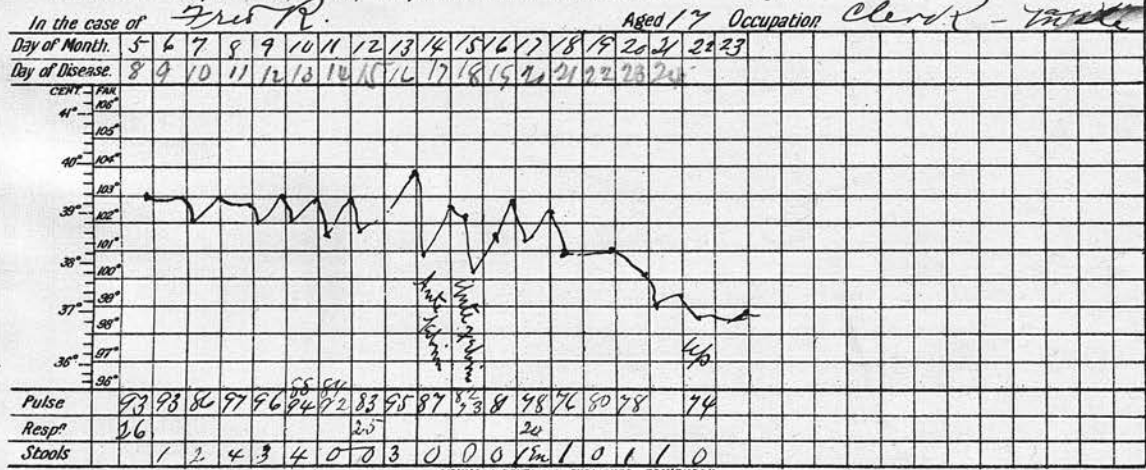
Aug 17th More restless. ordered Enema & had a good motion & temperature fell after it. took more nourishment last 24 hours.

Aug 19th - Tongue moist & clean, feels hungry
sleeps well & no pain or distress.

Aug 22nd - Temp normal & got up for few hours
ordered some Egg & milk. well beaten
together & also some corn starch & arrow
root. Made an excellent recovery. This
was a simple mild case & nothing worthy of note
His brother began few days after him & his
case was complicated with Pneumonia. I will take
him next. On Parvins, the yard I found well in corner
just across fence was a horn in which 3 horses
were kept & one ran into well. There were
3 cows in some house 3 years ago.

Case 1

Records of Temperature, Pulse, Respiration and Stools, from 5 Day of August 1888



YOUNG J. PENTLAND PUBLISHER, EDINBURGH.

Case II G.A.R. Merchant - aged 22. male -
 First seen on Aug 11th.

Complaining of sore throat, chills, no appetite
 constipation, head ache & general malaise
 Epistaxis, tongue dry & fissured & breath fetid
 odor, spleen considerably enlarged & great deal
 of tympanitis. Temperature $103\frac{1}{2}$ & pulse 96
 Ordered an Enema & some Quinine & put
 him on mild diet with some leaf tea.

Aug 13th - tongue dry & coated, very restless & sleepless
 ordered another Enema

Aug 15th - very restless - no sleep, tongue dry
 ordered tepid sponging & some Chloral Hydrate
 & he slept well

Aug 17th - Had restless night, tongue dry, the
 headache gone, bowels constipated temp $102\frac{1}{2}$ in
 morning pulse 92 & fairly strong. gave me 5 grs opium
 for bedtime & he slept 3 or 4 hours after it. Gave
 6 grs Antifebrin, which made him perspire freely &
 reduced temp to 101 & pulse to 80.

Aug 19th - pulse 95 in morning & 100 in P.M. not
 very strong. temp 102 & 103 respect. - ordered
 Enema & $\frac{1}{2}$ gr Digitalis 8 hrs every 5 hrs.

Aug 21st - temp 103; pulse 94, tongue dry
 not so restless & slept well on 1 gr opium pill.

Aug 22nd - gave 5 grs A. Fibrin & temp. fell, he
 perspired & slept for 3 hours.

Aug 24th - Temp. lower, tongue moist & clearing at 8 p.m. & pulse 84.

Aug 25 & 26th - Temp. still falling & pulse splendidly.

Aug 27th - Took severe pain in right side of chest & temp. began to go up. crepitations could be heard on auscultation. ordered turpentine & slipped & gave an opiate.

Aug 28th - Temp 103 & pulse 106 - Respiration 40. good deal of pain & slight cough. Consolidation over lower lobe fr. lung & Pneumonic signs present. put on poultices, continued the Serrini & digitals & ordered Brandy.

Aug 29th - Pain Easier, Cough troublesome, Temp 102 $\frac{3}{4}$ & pulse 100, rusty sputum present & tongue dry & resp. 39. ordered Some Ammon Carbamate & Senna.

Aug 30th - Temp still up. pulse 102 & resp 34. Not much pain. taking good deal of milk.

Aug 31st. About same.

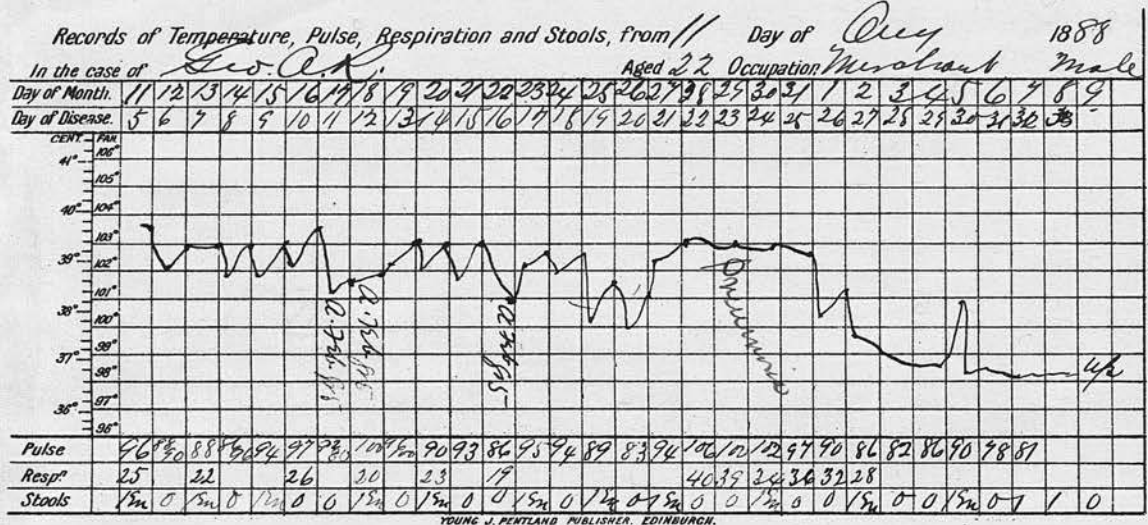
Sept 1st. Temp 101 $\frac{1}{2}$ & pulse 90. pulse easy & perspiring good deal. tongue moist. Cough & rales good deal of mucous-purulent matter. He continued to improve up to Sept 5th when temp ran up a little.

Sept 4th - Temp 99 & pulse 90. stronger, good appetite tongue moist & raw, sleeps well bowels constipated.

Sept 5th - Temp, in morning 101 - gave an Emerica & it

went right down. He improved right along until the 9th when he got up. He was now getting "Egg Nog", strained fruit, Corn Pudding & a few days later milk toast, since he re.

Case II



Case III. B.H. aged 8 - Female.

First seen Aug 28/88, been feeling drowsy for few days no appetite, pupils dilated, bowels loose & gurgling present, epistaxis tongue raw & cracked, breath smells peculiarly some rash present & headache, pain in back & some vomiting - temp 104 & pulse 120. - Ordered mild saline water & 5m doses of 3 Digitalis. t.i.d.

Sept 4th - about some rashes night, diminished & bowels much food temp 103 1/2 & pulse 120.

Sept 5th - Slept well, tongue dry, bowels moved once - ordered gr 3 Antifebrin at 10 am daily

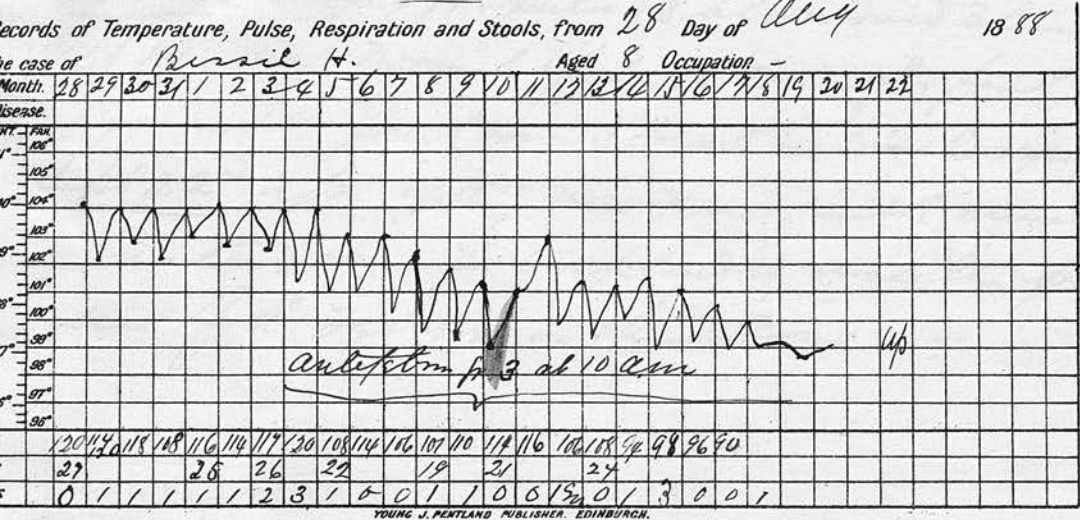
Sept 7th - rashes but is fruitful child anyway - took some chicken broth as is tired with temp 102 3/4 & pulse 106.

Sept 9th - took some strained pul - temp 101 & pulse 114 tongue moist.

Sept 10th - Evening temp 103 & pulse 116. Had no Antifebrin to day

Sept 12th - got Enema & some A. Febrin in morning, slept well tongue moist & temp low. -

Case III



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Case III. B.H. aged 8 - Female.

First seen Aug 28/88, been feeling drowsy for few days & no appetite, pupils dilated, bowels loose & gurgling present, Epistaxis tongue raw & cracked, breath smells peculiarly some rash present & headache, pain in back & some vomiting - temp 104 & pulse 120. - Ordered mild & plain water & 5 m doses of *Fr Digitalis*. t.i.d.

Sept 4th - about same, rather night, diminished & could take much food temp 103 1/2 & pulse 120.

Sept 5th - Slept well, tongue dry, bowels moved once - ordered gr 3 Antifebrin at 10 am daily

Sept 7th - rather better but is fretful child anyway - took some chicken broth as is tired of milk temp 102 3/4 & pulse 106.

Sept 9th - took some strained fruit - temp 101 & pulse 114 tongue moist.

Sept 10th - Evening temp 103 & pulse 116. Had no Antifebrin today

Sept 12th - got Enema & some A. Febrin in morning, slept well tongue moist & temp lower.

Sept 15 - temp 101 & pulse 98 b's moved 3 times, took mild grain

Sept 19 - temp normal & pulse 88, cries for food - getting egg & milk, fruit, corn starch &c, bowels regular.

Sept 22nd up - getting *Vin Ferri*, milk, chicken broth Custard &c. Got splendid results from the use of *Fr. Jalinae* in this case.

Case IV M. Mcd. aged 79. female.

First seen Sept 26th / 84

Suffering from intense headache, general weakness
feeling out of sorts with rigors, sore throat, had
Epistaxis, bowels confined, tongue covered with
brown fur & dry. Pupils dilated. very restless
Temp 103 1/2 - pulse 120 bounding - been
complaining for 5 or 6 days - getting gradually worse.
Ordered Quin Sulph, Acid Sulph Dil & Digitalis
in small doses every 4 hrs. & mild diet, also
gr. Calomel & followed by sedative powder.
Not seen again until 29th but her temp
recorded by nurse.

Sept 29th Evening - Temp 104, pulse 118 & resp 28
Headache better, no delirium tongue dry & the
spleen much enlarged.

Oct 2nd Temp 104, pulse 114 & resp 34. Slept well
after taking dose of Calomel & Amide & being sponged
over.

Oct 3rd Evening Temp 104, pulse 116 & resp 30. tongue
dry & glazed, bowels moved with Eucema, taking
lots of milk (about 2 quarts in 24 hrs.) & drinks
grad deal of water - slight delirium.

Oct 4th noon. Temp 103 & pulse 100, tongue
dry & coated - feels very hot & burning gave 7 gr of
Antifebrile after pumping some had to be sponged
at 4 P.M. Temp 101 & pulse 100 - blooming face.

Oct 5th Morning temp $102\frac{3}{4}$, pulse 102 resp 28.
 gave 5 grs A. Salicin & ordered 5 grs more to take
 at 3 P.M. & at 7 P.M. perspiring freely & temp 100,
 pulse 96 soft & resp. 24 - feels comfortable & the
 tongue more moist.

Oct 6th morning. temp 102. pulse 92 fairly strong
 slept well, bowels moved once, rash well
 out feels comfortable Not getting any Quinine now

Oct 7th temp 100 3 motions during night, tongue
 moist & feels well, pulse 100 & cardiac sounds
 are dull

Oct 8th Evening. temp $103\frac{3}{4}$, pulse 116 rather weak
 good deal of Tympanitis res ordered Enema, 5 grs of
 Antifebrin & ʒi of Brandy. Had no Antifebrin for
 24 hrs.

Oct 9th noon. temp $102\frac{1}{4}$ pulse 96, feels good
 In evening temp went up to 104 & gave 5 grs A. Salicin
 & sponged & vinegar & water, after which slept
 for 5 hours.

Oct 10th Noon - temp 102, feels tired, pulse 98 resp
 22 tongue moist & clearing at tip taking
 more milk & tea. gave Enema.

Oct 11th much better tongue clean & moist

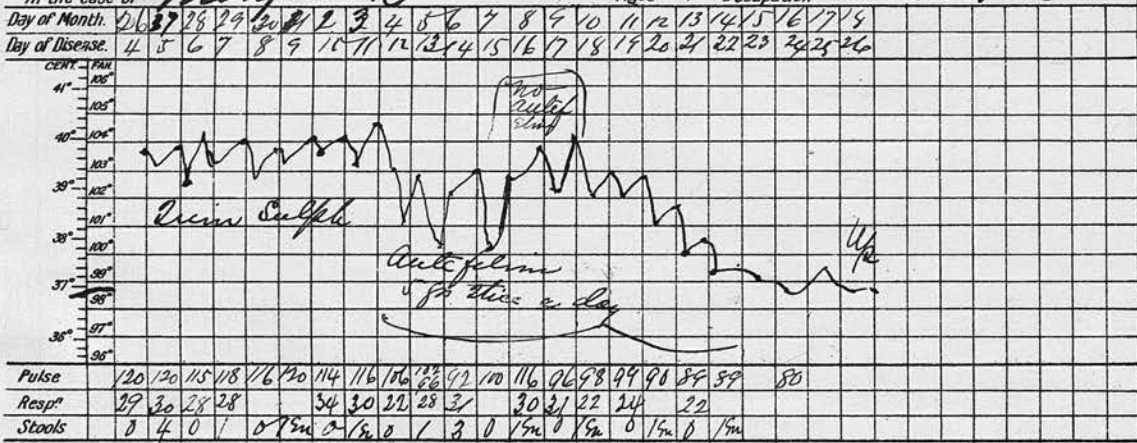
Oct 12th noon. temp 101, pulse 90, appetite better
 stopped the Antifebrin

Oct 15th temp 99. feels well ordered ʒij milk & ʒij of ^{not in hand.} Cognac
 18th better & got up - ʒts Enema every 2nd day. Stopped Digitalis - more

This was rather an interesting case - starting out somewhat severely with high temperatures which kept up well right through. Her pulse was somewhat rapid but improved on the administration of Digitalis & Antefrine. The temperature was easily controlled by the tepid sponging & Antefrine in 5 gr doses twice a day. Constipation right through the disease. She recovered completely.

Case IV

Records of Temperature, Pulse, Respiration and Stools, from 26 Day of Sept 1888
 In the case of Mary McK Aged 17 Occupation Drummer's Cu



108
104
103
102
101
100
99

W.B.

Case V., Sept 15. laborer - male

First seen on Sept 21/88 & had been ill one week with pain in back & head, rigors & other symptoms of typhoid & just lost a brother from fever. His temp was 103 & pulse 98. He was being attended by another M.D. I simply continued his treatment, ^{highly oxygenated & sp. with nitro} for next 5 days & expecting him to recover on his return to town, but though some misunderstanding he fell to me all through.

Sept 26th diarrhoea, pain in abdomen, delirious sleeps faint, sick at stomach & gave him some Bismuth & pepsin & lime water in his milk - which improved him - temp 103 & pulse 106.

Sept 28 temp 102 1/2, pulse 96, tongue very dirty & sores around the teeth diarrhoea.

Sept 29. temp 102, pulse 114 flabby & weak & delirious ordered some Digitalis & Brandy & chalk mixture, also enema of starch & laudanum.

Sept 30. Temp 102. Stools only moved 3 times better every way.

Oct 1st temp 102 - pulse 100, tongue clear & no delirium. The temp remained at 102 at noon until Oct 4th when it began to go down.

Oct 4th temp 100 1/2, pulse 86, tongue clear & better every way - stopped the Brandy & Digitalis & ordered Elisir of Calisaya, Bismuth & Pepsin.

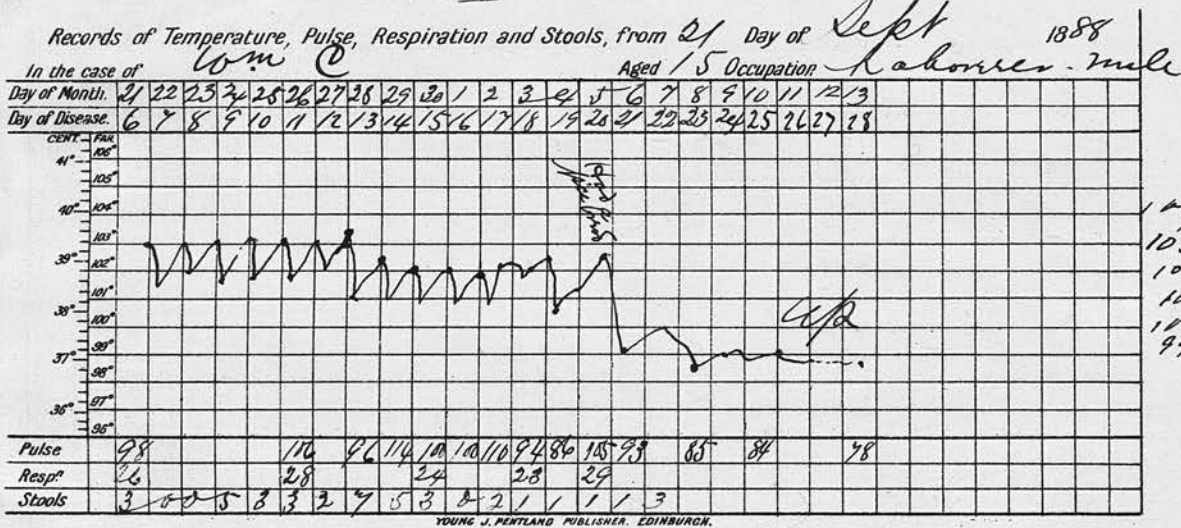
Oct 5th temp 102 1/2 (had piece of bread to eat) pain in stomach.

Supplied hot cloths & gave opiate & got immediate relief

Sept 6th - temp 99 feels hungry, tongue clean moist ordered milk & egg & cup tea, etc.

This case ran a very typical course with headache, delirium, delirium etc etc so characteristic of the disease. No strong antipyretics were given as did not seem to be indicated. The delirium was relieved by cold to the head.

Case V

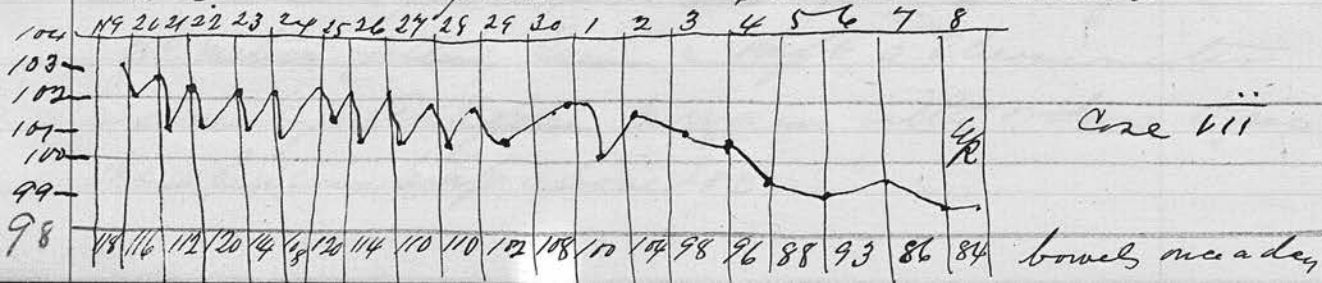


Case VI. Brother to above aged 19, began on Sept 24 with rigors, sore throat, headache etc on 26th his temp was 103. Others began giving him 5 grs A. Ferrius 3 times a day & temp never got above 102 1/2 again, nor the pulse above 90 nor Oct 5 temp began to go down & on the 8th it was normal - thus it ran its course in 12 days. This was an undoubted case of Typhoid, as it had all the

symptoms of the disease & two other cases in some house. The only treatment was Colonial saline purge at first followed by Antifebrin 3 times a day at first & then twice a day in 5gr doses. I am inclined to attribute the very short disease to the early & continued use of Antifebrin, although it may have been one of those cases of abortive Typhoid. I have lost my chart of this case & can't find it at present but may locate one.

Case VII G.S. age 6. male.

Began Sept. 19/88 with rigors after a few days of general malaise with headache, pain in back & limbs. Tongue coated. Temp 103 in evening & 102 next morning - put him on 2 1/2 grs antifebrin 3 times a day & the temp. never went above 102 1/2 again, but ran a very steady course until Oct. 8 when it went down. The bowels were regular throughout, no delirium, tongue kept moist. Got mild & bluffed internally, no medicine save the Antifebrin in 2 1/2 gr doses tid which gave most excellent results.



(very interesting case)

Case VIII M.B.S. Farmer age 20 -

This was a very severe case & the only case for lapses which I have met. I first saw him on Dec 1st/88. then ill 4 days. a strong stout young man. He complained of great throbbing violent headache & general lassitude for nothing feeling violent rigors, photophobia & Epistaxis the day before. also some gastric tenderness. The tongue dry & brown, slight tenderness over abdomen & spleen enlarged. fecalish odor present. The evening temp. was 104+, pulse 20 & resp 29. bowels moved once. Put him on milk, ordered 2grs Quinin every 4 hrs & tepid sponging.

Dec 2nd - Evening. temp 105 1/4, pulse 96 bounding resp. 32. Headache most intense, no sleep, pulse full & bounding, tongue dry & parched. ordered 5grs of acet. f. chin every 4 hours, & chloral fed 1/2 & 1/2 drms at 15 at bedtime & repeat if necessary.

Dec 3 - Slept after the chloral (3 doses) headache very severe & some delirium, temp 102 & pulse 86 but had taken 5grs acet. f. chin about 34 hours ago no motion of bowels. purgating some.

Dec 4th Slept some after one dose of chloral, still some wandering. temp 103 1/2 & pulse 80. gave enemata & got motion. Giltay Quinin & kept a thermometer & some 4grs Antifebrin powder with orders to give one when ever temp above 103.

Dec 5 Temp 102 & pulse 104 - perspiring quite freely - just had 4 grs Acalyptin, pulse soft, resp. 26, tongue dry & clean. Headache much better & slept well & feels comfortable. He takes about 3 pints of milk & some beef tea daily.

Dec 6th (8 a.m.) Temp 103 1/3 very restless - gave 4 grs A. Feb & at 10 Temp 101 1/2 & slept for 2 hours - no typhoid tenderness or rose spots; pulse 110 rather weak cardiac sounds feeble & unclear, small dose of Digitalis - tepid sponging used frequently.

Dec 7th (8 a.m.) Temp 103 & pulse 96 - restless & gave 1/8 gr Morphine after which went to sleep, the tongue coated with moist white fur - resp. 28. Try give about 4 or 5 4 grs powder of Acalyptin daily & keep temp. below 103.

Dec 8th Slept well - tongue moist & thin white coat over it - slight delirium - Temp 103 1/4 - pulse 98 & resp 29. some cough & sore throat, but no physical signs over chest. Saw him again at 9 P.M. Temp was then 101 1/2 & had taken 3 Acalyptin powders during the day - feels better.

Dec 9th Slept fair, had motion @ Duenna, Temp 102 3/4 & pulse 100, tongue glazed, feels very much better taking Quinin & Digitalis every 6 hrs & 3 grs of Acalyptin 3 or 4 times a day as required by temperature.

Dec 10th Temp 103 & pulse 94 - some flighty slept very well

Dec 11th (6 am) temp 103 $\frac{3}{4}$ pulse 104, some
 @. Zabin in 2 hrs temp 102, slept some. Brownish
 succ.

Dec 12th temp 102 $\frac{1}{2}$, pulse 94 resp 28. has had
 @ powder today, fuls bright no delirium.

Dec 13th temp 103 $\frac{1}{2}$, pulse 98, tongue moist &
 clean, rets well looks good deal better &
 mild - not taking so much antifebrin.

Dec 14 temp 103 $\frac{1}{2}$, pulse 100, resp 29, 3 motions
 flighty - rets - order more antifebrin

Dec 15th temp 102 $\frac{3}{4}$ - pulse 96 rather flabby, 5 motions
 slipped the temp low, tongue brownish & dry

Dec 16th temp 102 $\frac{1}{2}$ & pulse 82 - night temp 103
 no antifebrin. 17th about same.

Dec 18th temp 102, pulse 90 fuls well, tongue
 moist, slight diarrhoea. order lime water in milk.

Dec 19th (noon) temp 103. rets right, bowels
 moved 3 times - no red spots - some gurgling - pulse
 100 fairly strong.

Dec 20th (noon) slept well, temp 102, pulse 86 & the
 next sound good. had 3 grs antifebr in morning.

Dec 21 (noon) temp 103, pulse 93, has some cough
 & bronchitis, put in mustard & give warm cork. Sings &

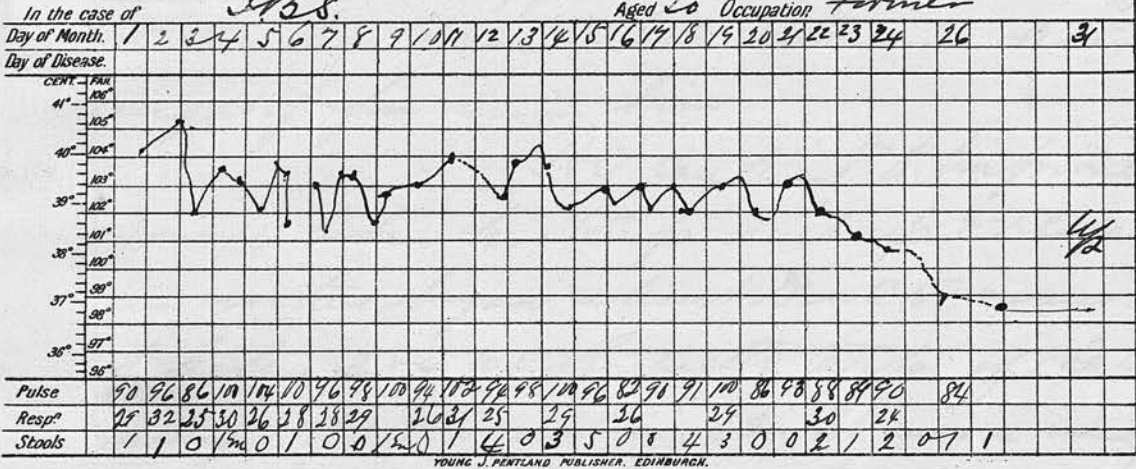
Dec 22 temp 102. Rattles better in chest, coughs up
 good deal of frothy mucus, tongue moistening shows
 signs of improvement.

Dec 23 Cough better, pain gone, temp 101 - better.

Dec 24 " Expectations fairly, tongue moist
 color, skin moist temp 100 1/2, ordered some
 "Egg nog" as was mildly weak.
 Dec 26 still improving, coughs little, appetite enormous

Case VIII

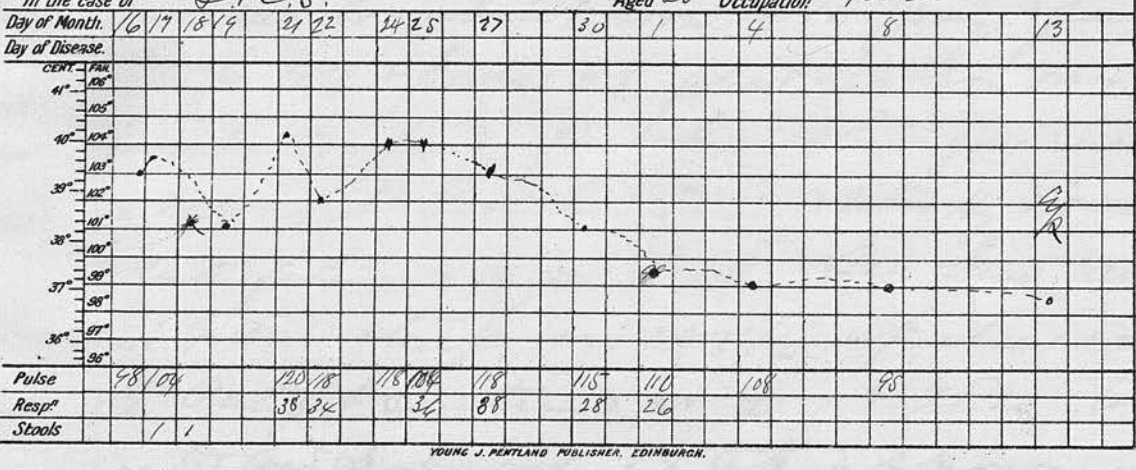
Records of Temperature, Pulse, Respiration and Stools, from 1 Day of Dec 1888



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Case VIII gave me an opportunity over 200 years
 tip. She had taken full care after some
 b. b. that it was the best R. in R. had
 Case VIII release

Records of Temperature, Pulse, Respiration and Stools, from 16 Day of Jan 1889



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The roads were bad as he lived in country I
 could not see him every day & had no one on whom

Dec 24 Expectations fairly, tongue moist
 color, skin moist temp 100 $\frac{1}{2}$, ordered some
 "Egg nog" as was middling weak.

Dec 26 still improving, coughs little, appetite enormous
 gets lots of milk, fuel, Quatord so. temp 99.

Dec 31 Up today, feels well, temp. normal & his
 mother has gone to bed with some disease - probably
 caught it from nursing him.

He continued to improve until
 Jan. 16 when his temp went up & rashes set in
 His mother, began about Dec 25 & ran a course
 of about 3 or 4 weeks with temp of 100 to 101 in
 morning & 101 to 102 at night. It was a very mild
 case & I gave her nothing but 2 grs Quinin
 t.i.d. She had taken full care after some
 I suspect that after she took sick, he had
 managed to get some forbidden articles of diet. I
 was sent for about noon on 16th Jan, found his
 temp 103 & pulse 98, great distress over abdomen
 bowels confined. Put him to bed gave enema & put
 on milk diet. Gave him Quinin & Nitro Hydrochloric acid
 & white gelatin in 4 grs t.i.d. Saw him next day
 at 9 a.m. temp was 103 $\frac{1}{4}$ & pulse 104. Ordered
 the Antifeb. continued at 9, 1 & 7 P.m. tongue
 coated food shut. ordered tepid sponging frequently.
 The rods were had & as he lived in country I
 could not see him every day & had no one on whom

I could rely for the temperature, so I am unable to give any charts of temp. & pulse.

Jan 19: temp 107 bowels moving once a day feels comfortable.

Jan 21st temp 104 $\frac{1}{4}$, pulse 20 weak, heart sound full, Delirious, tongue clean & cracked on dorsum, had cough & rales behind sternum respiration 38. moist râles all over chest. I put on poultices & ordered cough mixture. some brandy to be given with the antifebrile & also Digitalis.

Jan 22 temp 102. not so much delirium, pulse 110 heart sound weak. some tympanites. relieved by enema. complains of prickling feeling in both feet. ordered them rubbed w/ alcohol. Cough & rales gradual. râles are still present & resp 34.

Jan 24th temp 104 & pulse 118, feeble, tongue parched. ordered 3/4 Brandy every 3 hours.

25th temp 104 & pulse 104 skin dry & hot tongue dry & scalded about teeth, resp. 36. Cough & rales, ordered more antifebrile. as had not had any today & continued cough mixture Brandy & Digitalis.

Jan 27. temp 103. pulse 118 feeble, Delirium & coughs gradual. râles all over chest especially under right clavicles, put in more mustard & increased Brandy as seemed weaker.

(27)

ordered beef tea & "Egg nog" every 4 hrs.
getting 2 grs Antefelin every 6 hrs. followed by
3i Brandy.

Jan 30th temp 101, pulse 115; count down over in
bed, rational, sleeps better, heart sounds
almost imperceptible, resp 28. rales still present
over chest, raises great deal of frothy mucus
very weak, but is taking quite a lot of "Egg nog"
beef tea etc. reduced Antefelin to once a day - Brandy
Quinin. Digitalis & expectorants. Continued.

Feb 1st temp 99 1/2, pulse 110 or less & sometimes
up to 125 or 130. - Resp 26. Expectoration is
more copious & purulent - ordered 10 grs tartarum
every 4 hrs. tongue clearing & moist & rales
still present. perspiration not clear.
stopped the Antefelin, Complaints of numbness & paresthesia
in feet still.

Feb 4th temp 99. pulse 88, heart sounds rather
better, tongue clear & cough improving, strength
gaining, bowels regular, feels hungry

Feb 8th temp 99, pulse 95 stronger, better
but still coughs & raises good deal. Stopped cough mixture
& Brandy - & kept on "Egg nog" - & gave Berberin internally
& Berberin & Eucalyptus by inhalation taking some good
corn pudding, mild, beef tea etc.

Feb 13th temp but can't stand on account of
feet being so numb & sore, got some milk toast today

Next seen on 26th when he was walking around the house on crutches because of his tender feet, very much emaciated-looking, milk-light pudding Eggs etc. ordered some Chicken & fish. Still food did not enough & ordered Cod Liver-oil. He improved slowly slowly for few months & when warm weather come his cough left & he is now in perfect health.

This was a very interesting case from, because of the severe symptoms & protracted course. The high temperature & headache were easily controlled with the Antefelime. The temp. would soon run up again, so had to repeat the Antefelime very frequently. I feel satisfied that I could not have saved this case without it. Quinin in 15 & 20 gr doses seemed to have no effect on the temp. at all. It was also of interest from on acct of the severe Bronchitis, as there was Phthisis in the family. This was the only case of Phthisis that I have met & in this case noticed that even when heart was weak the Antefelime did not seem to depress it - but merely slowed & steadied its action.

Case ~~IX~~ ^{IX} Mrs L. aged 27.

Began July 1st /89, seen on July 4th suffering from the usual symptoms of Typhoid not at all severe. Her temp was 103 & pulse 90 rather weak. The patient was a somewhat delicate woman. I put her on milk diet & ordered ℞ Digitalis m ʒ 1/2 t.i.d & Antifebrin gr 4 one at 10 am & another at 4 P.M. & some lime water as bowels rather inclined to diarrhoea. In few days stool appeared, bowels got regular, no bad symptoms of any kind appeared. Her temp kept up for 14 days ranging from 104 1/2 to 103 & pulse from 90 to 112. She slept well throughout & the bowels became regular after began the administration of Antifebrin. This case seemed to be greatly benefited by the drug.

Case X J.B. Clerk - aged 20 - male.

Began Aug 3rd /89 with very severe headache, rigors & vomiting. Saw him on the 5th day in evening when temp 104 1/2 & pulse 80, bowels not moved for 5 days, tongue dirty & dry, skin hot & dry, abdomen tumid some diarrhoea & severe headache. ordered dose of Calomel & Citrate of Magnesia, also ʒ ʒ Antifebrin, which was repeated in 2 hours because of no relief. The 3rd dose 5 hours after started perspiration & relieved headache

The next day at noon temp was 102 & pulse 65. 4th well out & feeling comfortable. His temperature never went above 102 1/2 again & he continued for 2-2 days with evening temps of 102-102 1/2 & pulse from 55 to 70. Did not take much nourishment - as could not drink milk - got some strained gruel, Bovinine &c. He recovered rapidly when temp. went down. This case started rather severely but ran a very mild course. It seemed strange that the pulse should be so low throughout the disease. His bowels were regular after first purge. I find a preliminary purge followed up pretty sharply with Antyptin seems to break the back bone of the fever & it will usually run a milder course after this. After the first 2 days this man got 5 grs Antyptin morning & night & nothing else.

The next case is a very severe one, which caused me great deal of anxiety. I find my paper is going to be too long so I will leave out some of my milder cases.

Case XI Case G. aged 30.

First seen on Aug 14th 1889 & was then complaining of head ache & feeling very hot, vomiting some, feels dull & heavy, general soreness, slight cough, tongue covered with white fur, diarrhoea, gurgling in psoas in iliac fossa, pupils dilated & the fever odor present on breath. Temperature at noon - $104\frac{1}{3}$ & pulse 104. She was ordered to bed & 5 grs of Antifebrin say 4 hours until felt easier or perspired freely. & put in milk & lime water.

Aug 15th (noon) temp 104 & pulse 104, tongue more moist but thickly coated. some rose spots on abdomen bowels moved 6 times - not so restless & much comfort. She was not seen on 16th.

Aug 17th (noon) temp 103 & pulse 110, headache gone vomiting has ceased. 6th bed & ordered 20 grs & strok's enema, tongue moist but furred, heart sounds full. getting Antifebrin 94 t. i. d & ordered Dr. Digitalis 8 mrs say 6 hrs.

Aug 18th Morning temp 103 & evening 104 & pulse say 120 very restless night 4th stools, took quart of milk in 24 hrs, pulse not very strong, mind clear resp. 28 per minute

Aug 19th (noon) Temp 105.2 & pulse 130 - resp 34 (no Antifebrin today) feels hot & short of breath, not much sleep no delirium or pain - gave 4 grs fld. Jctin

2 4 grs more after 2 hours along with Bromd, 3i & at
 3 P.M. temp was $104\frac{1}{2}$ & pulse 98 & resp. 26 - perspiring
 most profusely, ordered tepid sponging every hour & so
 Aug 20th Slept well, temp 103 & pulse 110 & respiration
 feels better & breathes easier, resp 30, getting 3i Bromd,
 Every 3 hrs. also Digitalis & Antifebrin gr 4 t.i.d. in
 Evening temp $103\frac{1}{4}$.

Aug 21st morning temp 103, pulse 102, resp 24, slept
 fair. no tympanitis or Delirium In Evening feels very
 tired & breathing irregular almost Cheyne - Stokes per
 temp $105\frac{1}{2}$ & pulse 114, resp 35, tongue dry & brown
 Give 3i Bromd, & 5 grs Antifebrin & cold sponging & also
 15 grs Quinin sui 3 hrs temp fell to $103\frac{1}{2}$ & pulse
 84 & she felt better & took some milk. Give
 28 mo Gr. Opii Per Rectum & she slept for few hrs.

Aug 22nd (morning) temp 103 pulse 100 resp. 32
 slept good deal, heart sound rather stronger, some
 pain in right chest. relieved by mustard, tongue
 dry. continued Bromd, sui 3 hrs or so. Evening temp 105
 pulse 116 & resp 37. ordered cold sponging & 7 grs of
 Antifebrin, after which slept for 4 hrs.

Aug 23rd Slept well temp $102\frac{3}{4}$, pulse 112 weak but
 heart sound more distinct, Respiration side gone feels better
 As temperature had gone up so high the previous night - I ordered
 2 grs A. Felin powder to be taken at 4 & 7 P.M. & at 8.30 temp
 was only $100\frac{1}{2}$ & pulse 106 - 5 motions & gone lead off
 pill.

(33)

(noon)

Aug 24th - tongue moist & raw, temp 103, pulse 114 weak, ordered 1/2 gr opium every 4 hrs for diarrhoea & good results. Temp 28. Getting Brandy & Digitalis & 3 grs Aconitine every 4 hrs. which kept temp. under control & no depression.

Aug 25th temp 103, pulse 120 very weak, heart sound feeble. no delirium, tongue moist, diarrhoea better. gave Brandy in larger doses & some "Egg nog" & 2 grs Aconitine every 4 hrs, along & springing.

Aug 26th (noon) temp 103 1/4, pulse 118, Temp 30, feels better & pulse firmer, slept well & temp. gives in more readily to the Aconitine. - better.

Aug 27. Tongue moist & red, temp 102.6, pulse 112, stronger, feels better & took more nourishment, evening temp 101 3/4 & only had 2 grs powder of Aconitine to day - gave starch & opium enemata for diarrhoea.

Aug 28th (morning) temp. 102, pulse 118, slept well tongue clean & moist & no pain or tenderness but feels very weak. Continued Brandy & gave 2 grs Quinine every 6 hrs.

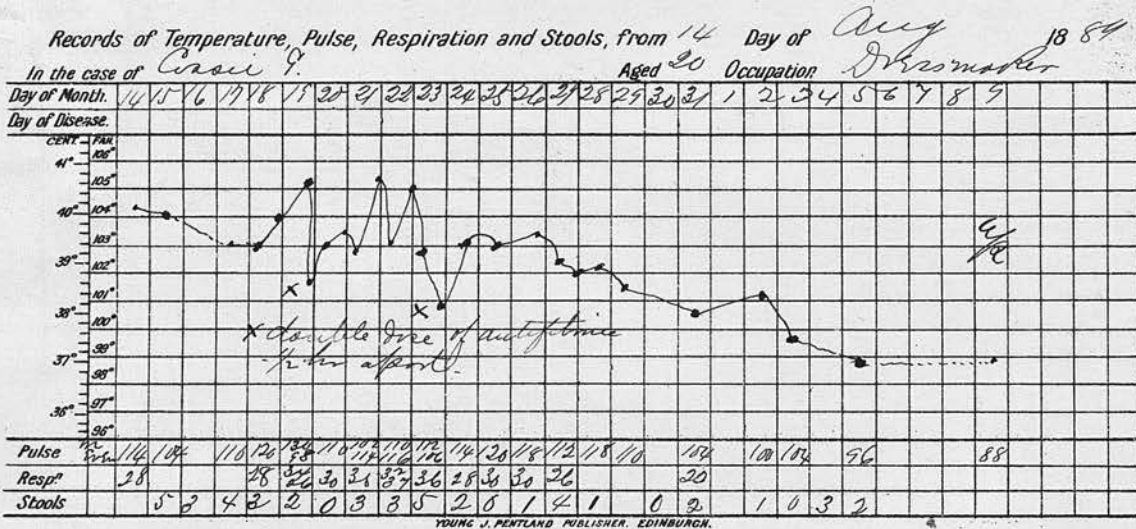
Aug 29 temp 101 1/2, pulse 110 stronger, feels better & slept well - stopped the Aconitine.

Aug 31st temp 100.3, pulse 104 She feels well but perspires freely - the weather is very hot & sultry.

Sept 3rd temp 99.3, pulse 96 doing well & takes lot of milk & egg.

Sept 5 temp normal, pulse 96. tongue clean - giving off Brandy & Digitalis kept on the 9th & improved rapidly.

Case 11



This was an interesting case & one which caused me a good deal of anxiety. The temperature ran up very high & her system seemed black vitality - being in a sort of stupor from the very first. Her heart & circulation being rather weak made me give antifebrine with caution but on watching it closely saw no ill effects from it. This case strengthened my faith in antifebrin very much - it seemed to prevent delirium, keep tongue moist & enable her to eat better, but it failed to check diarrhoea in this case. Her high temperature irregular & lasting for a night or two alarmed me & although might be due to menses coming on but found she menstruated just before took seat. There did not seem to be any cause for it. Could trace well water here - as had lot of cases using water from some well.

I find that my paper is getting too long so I must abbreviate. The next 7 cases are very similar, in that all occurred in strong young men, were all treated with Autogenine alone & all ran short courses. Their ages & occupations were as follows.

Case 12	M.O.B.	Physician	aged 26,	in bed 30 days
"	13 P.S.	Clerk	" 28 "	" " 15 "
"	14 F.P.C.	Bookkeeper	" 20 "	" " 16 "
"	15 F.T.	School boy	(average height 101 & 102)	15 " " 14 "
"	16 M.C.	Teacher	" 22 "	" " 20 "
"	17 A.L.	Mechanic	" 26 "	" " 19 "
"	18 A.D.	Telegraph operator	" 23 "	" " 17 "

These cases had great many points in common, all began suddenly & except case 15. Their bowels were all pretty regular or slight constipation. All had had headache & typhoid symptoms well marked. In most of them temp ran pretty high. In all of them I pushed Autogenine right from the first, after giving a dose of calomel & a saline & it seemed to cure the fever in few days & no ill effects from it. I was much pleased with its action in these cases.

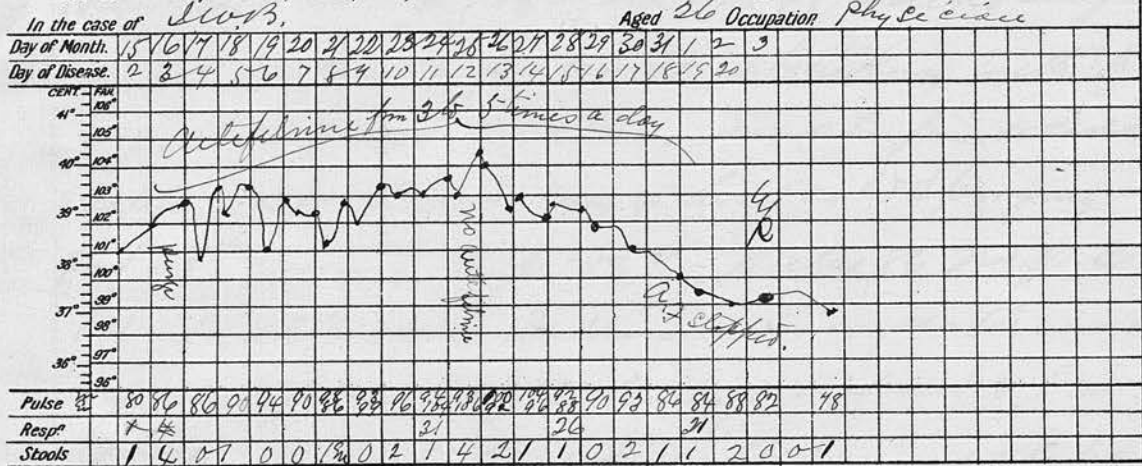
I will give some notes of Case 17 as it was perhaps as severe as any of them & the only case in which any delirium occurred & will simply give temperature charts of the others - as it will make paper too long to describe all in detail.

Case XVII. O.L. Mechanic aged 26

First seen Oct 26 - suffering from
mixture headache, rapid rise of temp, skin hot & dry

Case 12

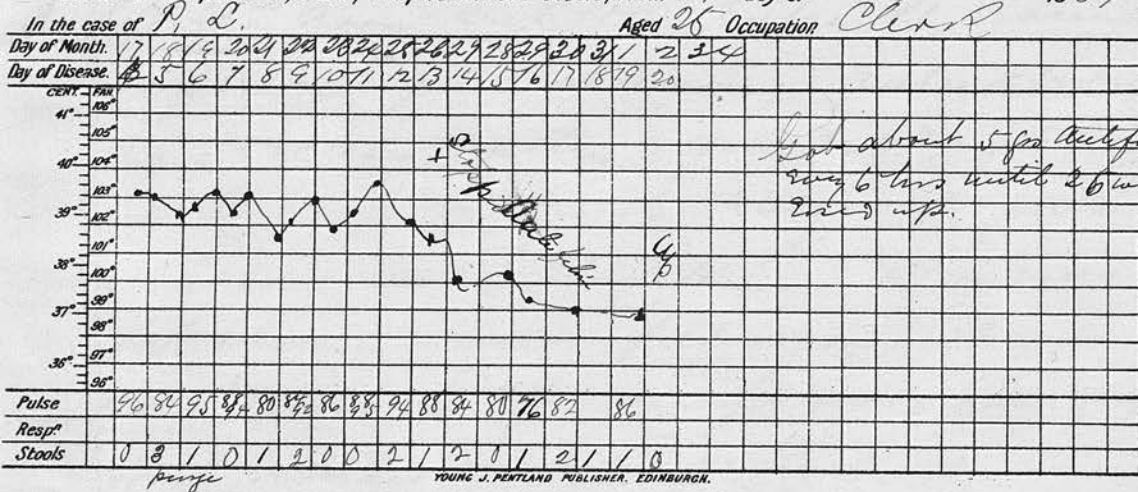
Records of Temperature, Pulse, Respiration and Stools, from 15 Day of August 1889



Oct 29 temp 103.3, pulse 90 not so bounding, headache gone slept well, feels sick at stomach but relieved
h. miss. Amicvatat his milt. Evening temp 104.4

Case 13

Records of Temperature, Pulse, Respiration and Stools, from 17 Day of August 1889



Nov 2 (morning) temp 103, Evening 104 & pulse 96 & 102
resp 30, slept well, tongue fissured & dry, looks good deal of
milt. - increased Autefeltin to 6 grs every 6 hrs again.

Case XVII. C. L. Mechanic apd 26

First seen Oct 26 - suffering from
mistaken headache, rapid rise temp, skin hot & dry,
tongue deep red, bowels constive, sleepless, & all the symptoms
of Typhoid. Temp $103\frac{1}{4}$ & pulse 88. ordered Antifebr. 5 grs t. i. d.
Oct 27. Temp 103, pulse 90, shivering with headache
& felt very hot & restless - no sleep - ordered Colmet
& saline 45 grs A. Feb. Every 4 hrs, & cold Sponging.

Oct 28th morning temp $103\frac{3}{4}$, pulse 86 & rap 32, skin
hot & dry still, some delirium & very restless - ordered
4 grs Antifebrin Every 2 hours & about 5 P.M. the
perspiration started & he felt easier & slept some
Oct 29 temp $103\frac{1}{3}$, pulse 90 not so bounding, headache
gone slept well, feels sick at stomach but relieved
by giving him water with his milk. Evening temp $104\frac{1}{4}$ &
pulse 102.

Oct 30th (noon) temp 102 pulse 90, (Evening) 103 & p 100
slept some, quite delirious, pulse strong & tongue
dark red, getting to go A. Feb. Every 6 hrs.

Oct 31 temp. (morning) 102 (Evening) 103 pulse 94 & 100
slept some - not much delirium, skin moist, took
out & bowels regular, feels very well

Nov 1st (noon) temp 103 & pulse 98 strong, perspires
freely, reduced Antifebrin to 5 grs t. i. d.

Nov 2 (morning) temp 103, Evening 104 & pulse 96 & 102
& rap 30, slept well, tongue fissured & dry, looks good deal
better - increased Antifebrin to 6 grs Every 6 hrs again.

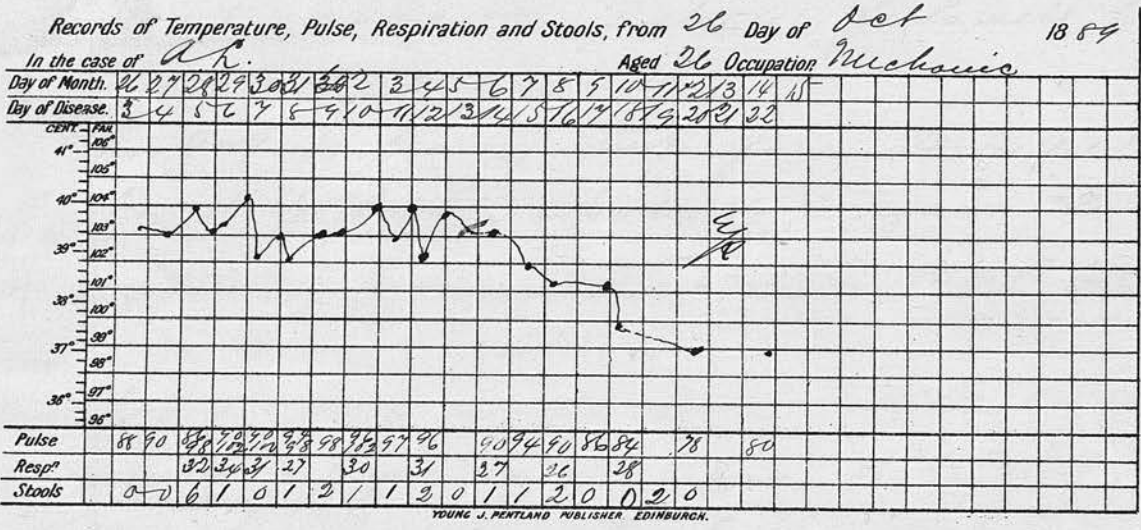
(34)

Nov 3rd About same as day before - slept well & feels bright

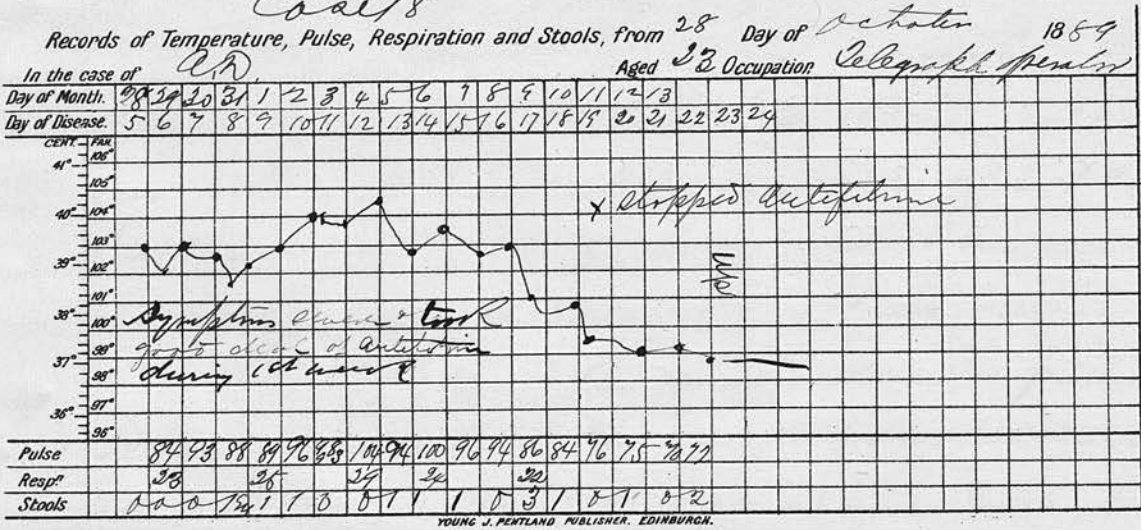
Nov 4th Temp'ts 102 in m. & 104 Evening, pulse 92 & 98, bowels regular, rational, taking lots of milk & cold water
I could not see him on the 5th

Nov 6th (noon) Temp 103, pulse 90, resp. 27 tongue moist at edges & below, only had 2, 69g Antifitlin

Case 17



Case 18



Schell put on the temp charts of other cases,

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(34)

Nov 3rd About same as day before - slept well & feels bright

Nov 4th Temp'ts 102 in m. & 104 Evening, pulse 92 & 98, bowels regular, rational, taking lots of milk & cold water. I could not see him on the 5th

Nov 6th (noon) Temp 103, pulse 90, resp. 27 tongue moist at edges & clean, only had 2,690 Antefelin powder today - better.

Nov 7th Temp 101 3/4, pulse 94 feels well, tongue moist & slept splendidly

Nov 8 & 9 Improving & temp. going down gradually

Nov 10th Temp 99 1/2 & pulse 80, tongue clean & his appetite improving - stopped the Antefelin & gave 900 Danin 5 or 6 hrs.

Nov 12th Temp normal & taking lots of milk & eggs.

Nov 14th Up yesterday, feels fine - taking lot of Egg & milk & is now fondly. Com. stomach re. he improved rapidly & no complications of any kind.

This case required the largest quantity of Antefelin of any of the 4 cases & bring temp down, but was big strong man with most persistent temperature. In all 4 cases the bowels were regular & the fever ran short course & only treatment was Antefelin - Usually after 1st day about 3 g. V powder will keep the temp. down & patient comfortable. I must believe that the Antefelin was instrumental in cutting these cases short - though in not case enough to prove it. I shall put in the temp charts of other six.

Case ~~XVII~~. Jm. W. apt 30. painter.

This was a very interesting

case but rather difficult to manage. He was a delicate man with Phthisical history, ^(see page 39) first seen by me on Oct 4th been ill one week under care of Dr. B. He was suffering from general malaise, headache pain in back, great deal of vomiting & retching, bowels constipated, tongue clean & raw, temp 102 & pulse 104. Gave him some milk & Senna water, iced, & some Bicarb & Hydrocyanic acid.

Oct 8th temp. 103, pulse 106, no sleep - not much pain but vomiting still bad.

Oct 9th temp 100 1/2 (morning) pulse 100, weak & flabby put mustard over stomach for vomiting, continued the Bicarb & gave gentle purge & opium & ordered Antifebrin gr 4 at 10 am & 4 pm.

Oct 10th about 2000 & gave Vin Sarsaparilla for vomiting vomited lot of mucus.

Oct 11 (Evening) temp 101 3/4, pulse 114 - vomiting easier
12th temp 102 3/4, pulse 114, tongue dry but clean. feels better & slept some.

Oct 13th temp 102 1/4, pulse 112, heart sound clear vomited twice, taking some iced milk. Digitalis & Antifebrin morning & night gr 4.

Oct 14 - temp 102, pulse 110, feels better but slept some & took great deal of milk - no vomiting

Oct 15th (Evening) temp 104 & pulse 120 - had no antifebrin

today, feels hot & weak. ordered more Antifetina
 & some Brandy 3j every 3 hrs.

Oct 16 (noon) temp 102 1/2, pulse 84. Complaints
 of sore throat for which today some K chlorate, tongue
 moist & slept well

Oct 17 - temp 103 & pulse 106 stronger slept well & is better.

Oct 18 " temp 102 & pulse 100, he feels weak but sleeps
 well tongue clean & moist - increased Brandy to
 3j every 4 hrs & reduced Antifetina to ʒii every three days

Oct 19 much improved - temp 101 3/4 & pulse 96

Oct 22 - (Evening) temp 101, pulse 98, much better

Oct 23 - About 3 P.M. began spitting blood quite
 profusely. Could not detect anything wrong with lungs
 gave tannic acid, sucked ice raised head of bed &
 kept perfectly quiet & cool. pulse 93 & temp 100. I
 stopped Brandy & ordered some Ergot & opium.

Oct 24 - Bled constantly through night & next day. It
 seemed to come from back of palate or posterior
 nostrils & swabbed & chlorid firm re, but for
 purpose temp normal & pulse 96 - perfectly quiet.

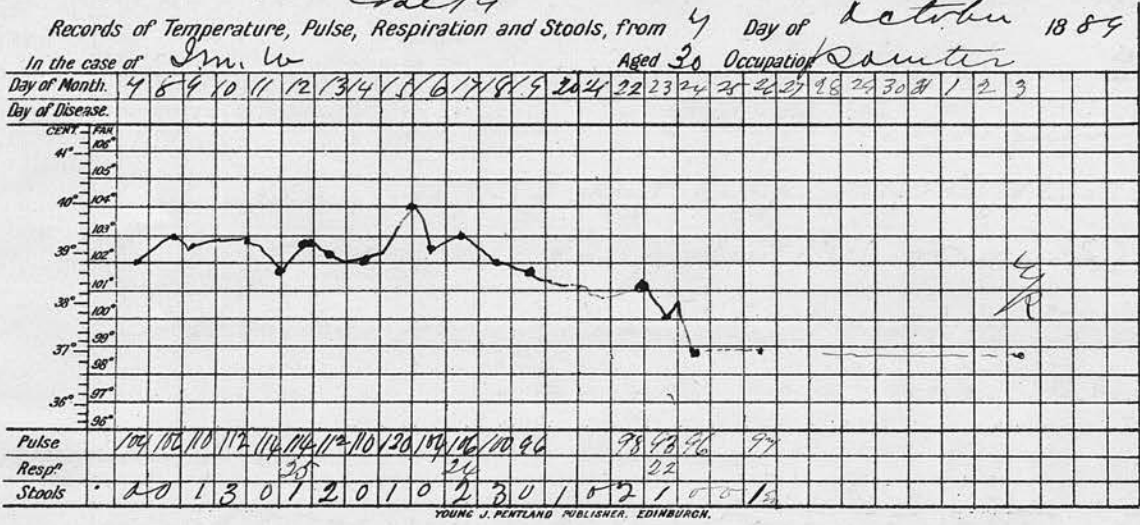
25th Still bleeding & gave him some Liq Extract
 of white Hazel, Ergot & Gallic acid ʒii every 3 hrs
 & swabbed & iron, It began to ease about noon & by
 8 P.M. had ceased

Oct 26 temp normal, pulse 97. No more bleeding
 feels hungry & pts iced milk & sweet tea - must have
 lost 1 1/2 pints of blood.

Oct 29 - feels weak & looks pale, pulse weak. Now getting cold milk & cold custards & puddings & not allowed to eat any. Ordered him some iron & eggs in stews, could walk around house with aid of cane

This case was peculiar in having so much vomiting at first & the haemorrhage from throat at last

Case 19



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acid for one week before I got him & thought this might have made vomiting worse.

He recovered completely & is now enjoying excellent health.

As my paper is getting so long must curtail my cases more so will only mention one or two more.

YOUNG J. PENTLAND PUBLISHER, EDINBURGH.

Oct 29 - feels weak & looks pale, pulse weak. Now getting cold milk & cold custards & puddings & not allowed to eat any. Ordered him some iron & eggs. In weeks could walk around house with aid of cane.

This case was peculiar in having so much vomiting at first & the haemorrhage from throat at last. After stopped bleeding could see a clot above soft palate. The vomiting was helped by an Emetic & a tract of Hazel seemed to help the haemorrhage. His pulse was rapid but helped with Sarsaparilla & Digitalis. Lives afraid of his Sneeze but they remained sound. His temperature could easily be lowered with gr. ii of Antipyrin. This was the only case I have met complicated with haemorrhage from throat & worst vomiting. He was treated with Carbolic acid for one week before I got him & thought this might have made vomiting worse.

He recovered completely & is now enjoying excellent health.

As my paper is getting so long must curtail my cases more so will only mention one or two more.

Case 20 Mrs. P. V. G. aged 30

By an Sept 28th & rigors & all the symptoms of cold & chills; it was simple cold & was not sent for until Oct 4th. She had been taking hot lemonade as in menacé. When I saw her she had severe headache, vertigo, temp 103, pulse 95 & resp. 24 fever & doc present, sore throat, pupils dilated & put her on milk & gave Sig. Ann. acetate & Sp. Acid Nitro.

Oct 8 (Evening) temp 104, pulse 98, no sleep & ordered 3 grs Antifebrin night & morning.

Oct 9 (Evening) 103^{3/4}, pulse 90. The antifebrin in 3 grs doses ended headache but caused good deal of sweating.

Oct 10 (noon) temp 103 pulse 96, slept well & felt well, taking good lot of milk.

Oct 11 temp 103, pulse 95, bowels regular

Oct 13 temp 103^{3/4} & pulse 98 felt well

Oct 14 (Evening) temp 105 - & pulse 104 (found that menstruation was setting in) I gave 5 grs antifebrin twice a day & on 15th was only 103

Oct 16 temp 103 & pulse 90 - felt better

Oct 18th " 103^{3/4} & pulse 80 stopped antifebrin.

Oct 20 " 99 " 76 felt hungry & ordered

Elixir of Bismuth, Colicex & Pepsin for some gastric distress & gave corn pudding & light puddings got upon 23rd & made a rather slow recovery, but is quite well now

Case 11, R.A.C. aged 56. male

This case was the father of Case 14) began few days after with usual symptoms in mild form. When he began looked about premises for a cause but found everything about the house in good condition, but found that at the factory where he was manager & his son (a R. Keeper, they used well water & also that several cases had been reported amongst the workmen there.

He was troubled again deal with vomiting & gastric catarrh, boric acid & caustic soda for some Citrate of magnesia, with some benefit & also improved some in administration of Bismuth & ferric in powder. His temp. was low about $100\frac{1}{2}$ in morning & 101 to $101\frac{1}{2}$ at night - so I did not give any antifebrile, but some Riq. Ammonii Acetatis & milk diet & occasional enemata. The temperature kept up for 25 days & then went down & he quickly recovered his strength, but appetite remained poor for some time. There were no other cases in the family so probably got it from drinking the well water at the factory.

Next case was one seen in Caustic soda & then I am done.

(43)

Case 11, M. J. apt 27. Engine Driver on R.R.
When seen by me ^{in consultation} had been ill 4 weeks & was
now suffering from 3rd relapse - was very weak &
emaciated, tongue dry & bleeding from deep fissures in its
dorsum, dimbles, pain in stomach vomiting
curdled milk. Temp 103 1/4 pulse 125 feeble &
Cordis & sound almost inaudible, ordered him
curdled milk & lime water 3 in every 1/2 hour, also 3i
Brandy every 2 hrs & Gr Digitalis m & every 4 hrs.
Next morning found him better & had slept some. He did not
vomit again, his pulse 110 & steadier - ordered
larger doses fruit & lime water, continued the
Brandy & Digitalis & gave 3grs Anteflin at 10 am 9/4/02
which did not make him perspire but reduced temp -
about 101 1/2 degrees. Saw him at end of week &
had improved good deal - no dimbles, vomiting or
pain & temp 102. On 12th day of relapse temp went down
& he continued to improve from that time in about 6 weeks
was quite himself again. He had been treated with
Quinin & Sp. Aeth. Nitrosi. before I saw him, & had been allowed
beef steak, as soon as got out of bed & being in this
account for relapse

Saw another case in consultation few days after - of young woman
6 months pregnant - fever ran 20 days & on 5th day after temp. fell
she aborted. We gave Chlorform & delivered her & she ran
through the puerperium with temp. ^{never} rising above 99 1/4 &
did splendidly.

Table of Complications Symptoms, &c
 Out of 23 cases of which I have full notes
 there was:

Headache	Noticed in	21 Cases
Sore throat	" "	15 "
Dilated pupils	" "	17 "
Foetor odor in breath	" "	19 "
Dionkew	" "	8 "
Constipation	" "	13 "
Abdominal tenderness	" "	12 "
Gastro disturbance	" "	9 "
Cyanosis	" "	5 "
Cough	" "	6 "
Bronchitis (acute)	" "	1 "
Pneumonia	" "	1 "
Pleurisy (slight)	" "	2 "
Delirium	" "	3 "
Rigors	" "	17 "
Epistaxis	" "	10 "
Insomnia	" "	21 "
Rash	" "	14 "
Bill water traceable	" "	15 "
Reactions	" "	23 "
Deaths	" "	0 "

Complications re in 43 cases treated by me
since beginning practice.

Out of 43 - 28 were males & 15 females.

Bronchitis (severe)	noticed in	1 case
" (slight)	" "	5 "
Pneumonia	" "	1 "
Pleurisy (slight)	" "	3 "
Relapse	" "	1 "
Haemorrhage (bowels)	" "	0 "
Perforation	" "	0 "
Peritonitis	" "	0 "
Phlebitis	" "	0 "
Red Sores	" "	0 "
Haemorrhage (throat)	" "	1 "
Chutajira (probable)	" "	6 "
Delirium		3 "
Conjunctivitis (mucous)		0 "
Deaths		0 "
Recoveries		43

Treatment &c

Now intending to make some account of the babies given but have no space for it. Have never met with more than 2 cases in some house & out of 43 cases have only had one relapse & no deaths. The treatment has been somewhat similar in all my later cases. As a rule I give small dose of colomel & Saline to begin with. Put them on a mild diet viz castor milk, buttermilk, strained gruel, broth, Bovinine, &c but must watch for Deinhosen. When temperature begins to fall usually give them some Egg milk beaten, along with 4 times quantity of milk. Start some rice, few hours. I found Deinhosen very rare in case. Commonly under treatment Eosly & that in quite a number of cases where present at first - ceased after began the administration of Castor oil. When present I usually find 3r Opii 30 to 40 mg & Struck Eucema twice a day about the best remedy. As soon as strong enough usually let them up but no solid food until about the 10th day of normal temperature. Where constipation I give Eucema Every 2nd day & does all night. Discontinue stools with Candy's & Chlorid of Lime. All lines are burnt or boiled immediately. Don't allow children, around the room much. Let them drink lots of water, imperious when release their mouths occasionally with some lemon juice or current water, as is very grateful to patient. Usually give small doses of Digitalis throughout, when all past any active work.

For hot dry skin tepid sponging with water & alcohol

seems grateful & lowers temperature too. I have never tried
 cold bath, as I have never failed to reduce temp. with
 cold sponging & Antifebrine. I have sometimes tried large
 dose of Quinine but it seems uncertain & in one case
 at least seemed to increase delirium very much & I
 am under the impression that I can get better results
 without it & have administered it very largely & except in some
 cases where patient or friend have been educated to believe
 that Typhoid can't be treated without Quinine, where I
 give small doses occasionally. Sometimes give a little
 after temperature falls, as a tonic. For the violent
 headache, high temperature & general uneasiness I
 usually give largish doses (6 to 8 grs) of Antifebrin
 & by its effect on perspiration & fluid that is excreted
 & by the cooling symptoms are usually relieved &
 temp. falls. The amount of Antifebrin required varies good
 deal - in a child usually begin with 6 or 4 grs & still then
 repeat every 4 hrs until he sweats, is relieved or
 feels weak & faint. - never have had last symptom
 produced. In some case a single dose will do it work
 while others will require a day or more. When once the
 Antifebrin produced its effect then much smaller
 doses (2 to 5 grs) 2 or 4 times a day will keep temp. down
 & patient comfortable, along with sponging of body.
 I have used Antipyne some but not so good & much
 more expensive. I have found that where began early
 in the disease & Antifebrin & sponging it right through that the

fever usually runs a shorter course, & the harmful and more regular those never had any bad effects produced by it. (vide page 35 et seq.) Sponging & tepid water 2 hrs after the Antifebrin makes him feel good & a few drops of the sleep. It seems to produce sleep, as well as reduce temperature. I mark some patients perspire good deal & have to change their clothes frequently. I often have a thermometer & the nurse & some 3 or 4 grs antifebr. powders, with orders to give one whenever temp. gets above $102\frac{1}{2}$ or 103 . A dose will send temp. down in $\frac{1}{2}$ to $\frac{3}{4}$ of hour & remains down from 3 to 8 or 10 hours. I have never seen it fail to reduce temp. in Typhoid but have in Pneumonia & Scarletina.

In some cases the temperature seems very persistent at first but when you once see it with Antifebrin the whole force of fever seems broken & ~~these~~ cases usually run a shorter course than mild or ones where don't use much antifebrin. In only one case did Antifebrin produce any bad symptoms. I ordered some 4 grs dose for one in Cecum (young nervous man) & after taking first dose said had peculiar prickling feeling all over him & thought was dying for sure - could not get him to take another dose.

For insomnia I often order a dose of Cl. Seb. at bed time which often produces refreshing sleep but if fails, then I usually give chloral & Bromide, or Paraldehyde in some cases. Small doses of opium seems best. Have not had any bad delirium to deal with, in one case I found

benefit from Brandy. In gastric Catarrh I usually order Bicimul^{ts} gr^x & pepsin grⁱⁱⁱ & iv ft pulv. - one
 2 or 3 times day, also quinine & sometimes mustard on
 stomach. For Empyema usually order an Enema
 of warm water & soap, & hot fomentation if Enema fail.
 Had one case of bad Bimulitis (Case VIII) page 22) which
 gave lot of anxiety as was phthisical family - used lettuce
 for temperature, Am. Carb, Senega & for Cough & mustard
 for counter irritation. He got better & took relapse & Bimulitis
 subsided - put him on stimulating treatment & indicated
 Eucalyptus & Turbicum which seemed good. Gave gradual
 of Brandy & he pulled through all night. His feet were numb
 & felt as though needles sticking in them for 2 or 3 months
 & were too sore to bear his weight on them & ordered them rubbed
 with Alcohol & Camphor & they gradually improved.

I also had an interesting case (Case 19) complicated with
 hemorrhage from back part of nose or upper part of Pharynx
 Bleeding was quite free & continued for over 2 days before
 could get it checked. It seemed to give in to witte
 Hazel & Ergot Extracts & along with chloride firm
 swabbing. Had perfect rest, head held raised & only used drinks
 We were glad when it ceased up for I thought my record
 of successes was about to cease, but he recovered in due
 time.

I have been struck with the fact that very often the most
 severe cases at the commencement, run a shorter course
 than the milder ones & I am inclined to attribute this

to the more rigorous antipyretic treatment usually adopted in the former. I also noticed that in strong subjects where I pushed Antipilin further, the course of the fever was shorter. Nearly all of my cases which have run over 18 or 20 days have been children or oldish people with mild symptoms & low temperatures where I have used very little or in some cases no antipilin.

Before closing this paper which is already fast too long I would like to say a little on Antipilin in General Febrile conditions.

I remember of Prof. Grainger Stewart telling his class during the winter of 1866 & 187 that Antipilin was in all probability the coming Antipyretic. I was struck with the name & made up my mind to try it as soon as I got into practice. I have used it ^{freely} & extensively during the 2 1/2 years that I have been in practice. I have read a number of articles in the Br. Med. Journal & other works on it & have been struck with the fact that no two seemed to agree concerning its merits & demerits. I have used it in Typhoid, measles, peripneumonia, & in the fevers of Cholera & Pneumonia & have been more than pleased with its results in first 3 groups of cases but disappointed in Cholera & Pneumonia. In these last cases it seemed to produce prostration & pave the way to cardiac failure. I have not

used it very extensively in Rimini but lost
 cases in one family, where I had been using
 it, of cardiac failures & blamed the Antifebrin
 for it & have not used it since. In these cases
 I use Quinin & find it satisfactory. It doubt always
 reduce the temperature in Scarletina but is useful
 in bringing out the rash. I have used Antipyric
 there largely & find it extremely good. Dr Charles
 H. Eden of St. John read a paper before the
 New Brunswick Med. Society 2 yrs ago, on
 treatment of St. John by Antipyric - being an
 Epidemic which they had in that city 2 yrs ago &
 said could cut the attack short about 2 or 3 days
 & has complications after began using it & this
 was corroborated by many of the St John Dr's &
 I have used it in all my cases since & have had
 splendid results, ~~but my paper~~ while my paper
 leads me to recommend Antipyric in Scarletina
 it won't allow me to recommend Antifebrin.
 I have used Antifebrin some in puerperal
 cases of temperature, with excellent results & it
 requires small doses from 2 to 5 grs quite safe
 3 or 4 times a day, a good big dose about the
 commencement of measles also brings out ^{some} eruptions
 very well & relieves the restlessness. ^{but many cases}
 It is in Typhoid fever & influenza however
 that I have found it the most useful & it certainly

is of great value here. I have read various accounts of its producing Cyanosis & other undesirable symptoms, but I have never met any such symptoms in Pneumonia, Typhoid or Influenza although I have in Pneumonia. Perhaps in very large doses it might produce hot symptoms but I find it extremely rare that you will have to give more than 6 or 8 grs & 4 times a day. It will reduce the temperature in about 1/2 hour & will keep it down 6 or 8 hrs in many cases, while in some persistent cases it will run up again quicker. I have found that as a rule 2 to 5 grs will keep the temperature under control, after it has once been brought ^{down} with larger doses just as well as larger doses. only have to give a little often & don't produce the perspiration that larger doses do. I like to give larger dose at first & produce a good sweat; so it seems to take the force of the fever away, then follow up with smaller doses - perhaps 2 or 4 grs t.i.d. I have tried Acetylsalicylic acid for the initial headache but it didn't compare with Allaxetine.

It is very useful in delirious cases. - will very often quiet them, so that they can get a few hours sleep after taking a dose, being sponged over with tepid water. It also seems to lessen diarrhoea but how I don't say. ~~It also~~ notices

that in cases where Antefetin has been used from the first. Constipation is the rule & have seen diarrhoea cease after begun its administration, whether was due to Antefetin or a mere coincidence, of course. I can't say but am inclined to give the drug the praise. I feel quite confident that it will ^{in many of these} cut short an attack of fever to 12 to 16 days, if begun early & pushed for few days. It is liable to have some complications. I make these statements from the case. Those had & from the fact that I am the only Dr. in town who uses this drug much & certainly have had fewer relapses, less complications & very much fewer deaths than any other man in town. I usually give it as powder & have very seldom seen it produce vomiting - thought I have seen the patient vomit it in one or two cases.

I have used it some in neuralgias & headaches but it is very uncertain here & not nearly so useful as Antipyrin. I used it very largely in the treatment of Influenza & Strainitis & found it satisfactory. It never always relieves the headache, backache & general soreness, but it requires much larger doses than Typhoid. I often had to give 10 or 12 grs & repeat every 3 or 4 hours in bad cases - usually about 2nd or 3rd. I do not think I would afford the relief sought. I had a great many cases used

it in nearly all cases few relapses & only one death. but course was slow in many cases & there was sometimes prostration when large doses used. In concluding Autepitome survey say that I can strongly recommend in Typhoid, Influenza & Measles, but my experience will not allow me to recommend it in Pneumonia or Scarletina

In summing up the treatment of Typhoid I may say that supposing cases called in to me to see an ordinary case of Typhoid in a fairly strong individual of fairly high temp. my treatment would be something like this. - 1st first of all, probably a mild purge ^{of pulse full & strong} of bowels early.

- (1) Mild diet - 1/2 pt glass every 2 or 3 hours - watching for curdling on stomach & state of bowels &c
 - (2) 4 Digitalis in form 5 to 10 ms every 6 hrs.
 - (3) Autepitome probably from 5 to 10 grs (depending on effect of 1st dose of about 7 grs) every 4 or 5 hrs for 1st day or perhaps two days then about 3 to 6 grs ~~then~~ from 3 to 6 times a day depending on the persistence of temperature - if produced much perspiration would lessen the dose to suit the individual case & along with this would add Opium & Spongia & alcohol water.
- With such treatment in the great majority of cases should expect temp never get above 103. & would expect to see it go down from 12 to 18th day & the patient made as pleased

recovery without any complication & less liable to relapse & probably no diarrhoea or ^{Delirium} I would caution the diet, & Digitalis right through whole course of disease & the Antifebrile until temp. went down to say 100. If any complications should set in treat, as I have before mentioned

My experience in treatment of Typhoid therefore is that Antifebrile where administered right through in sufficient doses to central temperature every day - will in greater number of cases shorten the attack by several or more, have fewer complications, less risk of relapses & produce far less prostration than the disease will where treated without it. In short I have not been able to see that it produces prostration at all in Typhoid where doses are regulated by the demands of the case.

That diversion from the subject on page 50 is simply to show that while I have great faith in Antifebrile in Typhoid - my faith in the drug is not sufficient to make me think that it must be of great value in every kind of febrile disturbance. My idea of the usefulness of drugs is something like this - so long as I find I cannot get better results in any disease with any particular drug or line of treatment I will most certainly follow those drugs & treatment in that disease, but the moment I find something which will give better

results, then I am ready to accept it; as as
 I have found Aetefin most satisfactory in
 some cases, but where I have tried it in
 some others I failed to get good
 results with it I of course dropped it.
 I wish I had kept more charts with full temperatures
 but as I did not think of this in writing last
 Autumn was pretty busy & only used to take
 a note of case now & again that I thought
 was going to be ^{an} interesting one, but I can say
 that my later cases where I used Aetefin
 more or other drugs less or shorter courses
 than my earlier ones, while those I
 who treated most with Iminin did not notice
 their cases running any shorter courses than
 those of the year before. Of course I don't mean
 to say that the Aetefin treatment will save every
 case or anything near it probably my death rate during
 the next 2 years may be as high as any of the others
 using different line of treatment, but so long as I can
 get anything like the good results of the past
 I shall continue the same line of treatment.

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