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Notes on a group of cases illustrating  
the co-existence of Scarlet Fever and  
Measles in the same individual.

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1.  
On the co-existence of Scarlet Fever  
and Measles in the same individual.

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Three years ago while in charge of wards for Scarlet Fever in Belvidere Hospital, Glasgow, I had an opportunity of observing a small epidemic of Measles among children already suffering from Scarlet Fever, and although I am aware that the co-existence of the two diseases is not very uncommon, yet this group of cases seemed to me at the time to present several points of interest which may justify my making ~~this~~ <sup>it</sup> the subject of this thesis. The manner in which the infection was introduced into the ward was interesting, both from a clinical point of view, and also as showing how in spite of all care cross-infection may take place. I considered that the infection was introduced by the child whose case comes first ~~in the~~ among those detailed below, and as will be seen from the notes taken from the ward journal she was suffering from well marked Scarlet Fever on admission. The total number of cases which occurred was nine, and I propose to give notes of five of these in detail, and then make a commentary upon the more interesting points which they present. Though the number of cases was too small to draw conclusions from with certainty, yet they agreed so much in certain features as to suggest a modification of the one disease by the other in certain particulars.



## Case I.

A. J., aged 3 years was admitted on 5<sup>th</sup> Sept, 1891. Her illness began on the 1<sup>st</sup> inst. with sickness, vomiting, headache and sore throat. A rash appeared on the second day. She has had no other infectious disease. Temp. on admission 104° F.

Notes on admission. Patient presents a brilliant red scarlet rash. The cervical glands are slightly enlarged. Tongue covered with white fur. Soft palate and pharynx deeply congested; right tonsil slightly ulcerated. First sound of the heart soft and indistinct over the mitral area, but no definite murmur present. Lungs clear. Urine gives slight haze of albumen on boiling.

The patient progressed favourably till 9<sup>th</sup> Sept. when the temp. rose to 104.5°. She had been very restless and had coughed a great deal all night. Fine crepitant râles were heard over the left lung, especially in the sub-axillary region. Heart sounds pure.

Face slightly cyanosed. Had passed no urine during the night.

Evening Visit. Has been very restless all day.

No urine having been passed, six ounces were withdrawn by catheter. Urine markedly albuminous.

Sept. 10<sup>th</sup>. The nurse informs me that she had noticed the child sneezing and coughing during the last few days, and that she had learned from the parents that a sister at home has just developed measles.

On examining the lungs it is found that there is fine crepitant râle heard over the left base, especially at the inferior angle of the scapula. The breath sounds are blowing in character, and the percussion note over the base posteriorly is wanting in resonance. Evening. Pulse very rapid, rather feeble and occasionally irregular. Urine contains a good deal of albumen, and is scanty.

## Case I continued.

Sept. 11<sup>th</sup>. Slept fairly well. Condition of lungs much the same as yesterday: right lung still clear. Is passing urine in sufficient quantity.

Evening. Breathing very rapid and shallow.

Finger nails of dusky hue: face cyanosed.  
No rash present.

Sept. 12<sup>th</sup>.

Had a quiet night, but was with difficulty induced to take nourishment. Breathing still rapid and laboured. She has diarrhoea: yesterday had four loose motions. To-day the percussion note over the lower lobe of the left lung is distinctly dull, and R.M. is tubular. There is fine crepitation audibly at the base of the right lung.

Child gradually sank and died at 11 p.m.

This case was admitted, as shown above on the 5<sup>th</sup> Sept.; on the 8<sup>th</sup> Sept. her temperature, which had been falling, began to rise again and symptoms of broncho-pneumonia soon appeared: on the 21<sup>st</sup> September the first undoubted case of measles appeared in the ward in the person of the child whose case is given below.

## Case II.

A. M<sup>c</sup>. F. aged 4 years, admitted to hospital suffering from Scarlet Fever on 4<sup>th</sup> Sept.

She became ill four days ago with sore throat, sickness and vomiting. Rash came out on the third day. No history of any other infectious disease. Temp. on admission 100.80 F.

Note on admission. Well marked scarlet rash. Glands of neck not enlarged. Tongue clean. Fauces congested. Tonsils enlarged. Heart sounds pure. Urine clear.

Sept. 9<sup>th</sup>. Disquamation on fingers.

Sept. 16<sup>th</sup>. Temp. has been elevated to-day. Nothing detected on examining the heart and lungs to account for this. No discharge from ears.



Case II continued.

Sept. 17<sup>th</sup>.

Temperature still elevated. She does not complain of anything. On examining the chest nothing abnormal can be detected. Heart sounds pure. Urine free from albumen.

Sept. 19<sup>th</sup>. Temp. over 101° this morning.

No discharge from ears; no albuminuria. Has been coughing and sneezing.

Sept. 20<sup>th</sup>. Throat congested and palate oedematous. Tonsils enlarged, and presenting patches of exudation on their surface. Glands at angles of lower jaw enlarged. Eyelids slightly swollen; conjunctivae a little injected.

Sept. 21<sup>st</sup>. Temp. 103.6° this evening. There is a red papular rash present on the face and arms which appears to be a measles rash in the early stage. Chest clear. Trace of albumen in the urine.

Sept. 22<sup>nd</sup>. This morning there is a distinct measles rash present on the face, scalp and body generally. Eyes are suffused and injected; she has a frequent harsh cough.

Sept. 23<sup>rd</sup>. Doing well. Cough less troublesome. Rash fading. Temp. has fallen to 101°.

Sept. 26<sup>th</sup>. Albumen disappeared from urine.

Oct. 2<sup>nd</sup>. Doing fairly well. Left ear discharging.

Oct. 8<sup>th</sup>. Right ear discharging.

Oct. 13<sup>th</sup>. Is convalescent. Allowed up.

Case III.

J. W. aged 3 years admitted to hospital on 4<sup>th</sup> Sept. 1891 suffering from Scarlet Fever.

Became ill two days ago with sore throat, sickness, and vomiting.





Case III continued.

Rash came out on the second day. Has had scarlet fever.

Temp. on admission 101.2° F.

Note on admission. There is a fading scarlet rash present. Glands of left side of neck slightly enlarged. Tongue clean. Some patches of desquamation on tonsils. Heart sounds pure. A few scattered moist râles heard over both lungs. Urine free from albumen.

Sept. 21<sup>st</sup>. Has been coughing and sneezing. Temp. 101.6° in the evening.

Sept. 23<sup>rd</sup>. This morning his temperature is 103.2°. Eyes very much suffused and somewhat injected. Glands of neck considerably swollen. He has a short hoarse cough. There is an indefinite rash appearing on the cheeks and sides of the neck. Chest clear.

Sept. 24<sup>th</sup>. To-day there is a very profuse meazy rash present all over the body. He has a harsh laryngeal cough. Lungs normal. Temp. 103°.

Evening. Has been restless during the day and has vomited several times. Voice is hoarse and he has considerable dyspnoea. P/R = 130/70. Nothing abnormal detected on examining the lungs.

Sept. 25<sup>th</sup>. Has been very restless during the night. Breathing very rapid and somewhat laboured. P/R = 180/50. Urine distinctly albuminous. No tubercle casts found on microscopic examination.

## Case III continued.

Sept. 26<sup>th</sup>. Moist rales at left base posteriorly.

Rash fading; very livid on the back.

Urine like albuminous.

At noon Temp.  $105.8^{\circ}$ ; pulse small and weak; to have antifebrin  $gr \frac{i}{2}$  hourly for three hours; 2 m. Gr. Digitalis every two hours.

6 p. m. Temp.  $99.2^{\circ}$ ;  $\%R = 12/60$ ; less restless. Has passed no urine all day; warm water enema given;  $\frac{3}{4}$  pint urine passed after enema.

Condition continued much the same during next two days.

Sept. 29<sup>th</sup>. Was very restless during the night, but to-day breathing is less rapid and he seems a little stronger.  $\%R = 15/50$ .

Want of resomaner on percussion noticed over base of left lung. Lower part of left upper arm and upper part of fore-arm swollen and tender. Skin over back of upper arm is of a dark red colour; no fluctuation can be detected. Movement of elbow joint free, but causes pain. Lower part of humerus seems to be thickened.

Evening. Very restless; breathing laboured; Temp.  $104^{\circ}$ .

Sept. 30<sup>th</sup> very restless. Sick and vomiting at intervals during the day. Whole upper arm much swollen and tender; skin dark red, glossy and shining.

Oct. 1<sup>st</sup>. Had a good night. Sick and vomiting during the day forenoon. Pulse very weak; could not be counted. Face and finger tips dusky in hue. Incised arm, <sup>down to bone</sup> over lower part of back of humerus; no pus found.

Died at 2.30 p. m.



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Case IV.

J. D. aged 4 years, admitted to hospital on 5<sup>th</sup> Sept. 1891 suffering from Scarlet Fever. Illness began three days ago with sickness, vomiting and sore throat. Rash appeared on the second day. She has had no other infectious disease.

Temp. on admission 103.8° F.

Note on admission. Very profuse scarlet rash present: livid and patchy on arms.

Glands of neck much enlarged, especially on the right side: hard, and tender on pressure. Tongue covered with thin, dry yellow fur. Soft palate congested and oedematous. Both tonsils enlarged and considerably ulcerated. Heart sounds pure.

Urine free from albumen.

Sept. 8<sup>th</sup>. Doing well. Enlargement of glands less. Temp. falling.

Sept. 9<sup>th</sup>. Disquamating on fingers.

Sept. 15<sup>th</sup> Temp. this evening 103°: yesterday evening 102°. Heart and lungs normal: urine free from albumen.

Sept. 16<sup>th</sup>. Temp. normal.

Sept. 19<sup>th</sup> Temp. 100.2° this morning. Has been coughing and sneezing.

Sept. 20<sup>th</sup> Temp. 102.4° this morning. She has vomited everything she has taken since yesterday evening: occasionally she vomits independently of taking food. Complains of severe frontal headache. Pulse small and very rapid (144). Pupils equal in size: somewhat dilated.

Tongue covered with white fur: bowels of more than twice during the night: motions fluid.

Evening. She has vomited everything given by the mouth during the day: is being

## Case IV continued.

frd by eumata. Has had diarrhoea: four motions since morning visit: stools fluid, yellowish white in colour. Complaints of abdominal pain: is very weak: features pinched and sunken.

Sept. 21<sup>st</sup>. Condition unchanged: Vomiting unchecked by treatment: pinched and sunk looking.

Died at 6.15 p.m.

## Case V.

M. M. aged 7 years admitted to hospital on 10<sup>th</sup> Sept. 1891 suffering from Scarlet Fever. Became ill four days ago with sore throat, sickness and vomiting. Rash seen on second day. Has had measles.

Temp. on admission 100.80.

Note on admission. Well marked scarlet rash present. Tongue covered with thin white fur, shaft at tip which is very red. Throat congested: tonsils slightly enlarged. No glandular enlargement. Heart normal. Lungs normal.

Urine free from albumen.

Sept. 14<sup>th</sup>. Disquamation.

Sept. 24<sup>th</sup>. Sneezing and coughing frequently. Evening temp. 102°. Has been sick and complains of abdominal pain. <sup>Peristalsis</sup> ~~Complaint~~ of abdomen causes pain. Bowels moved yesterday. Urine free from albumen.

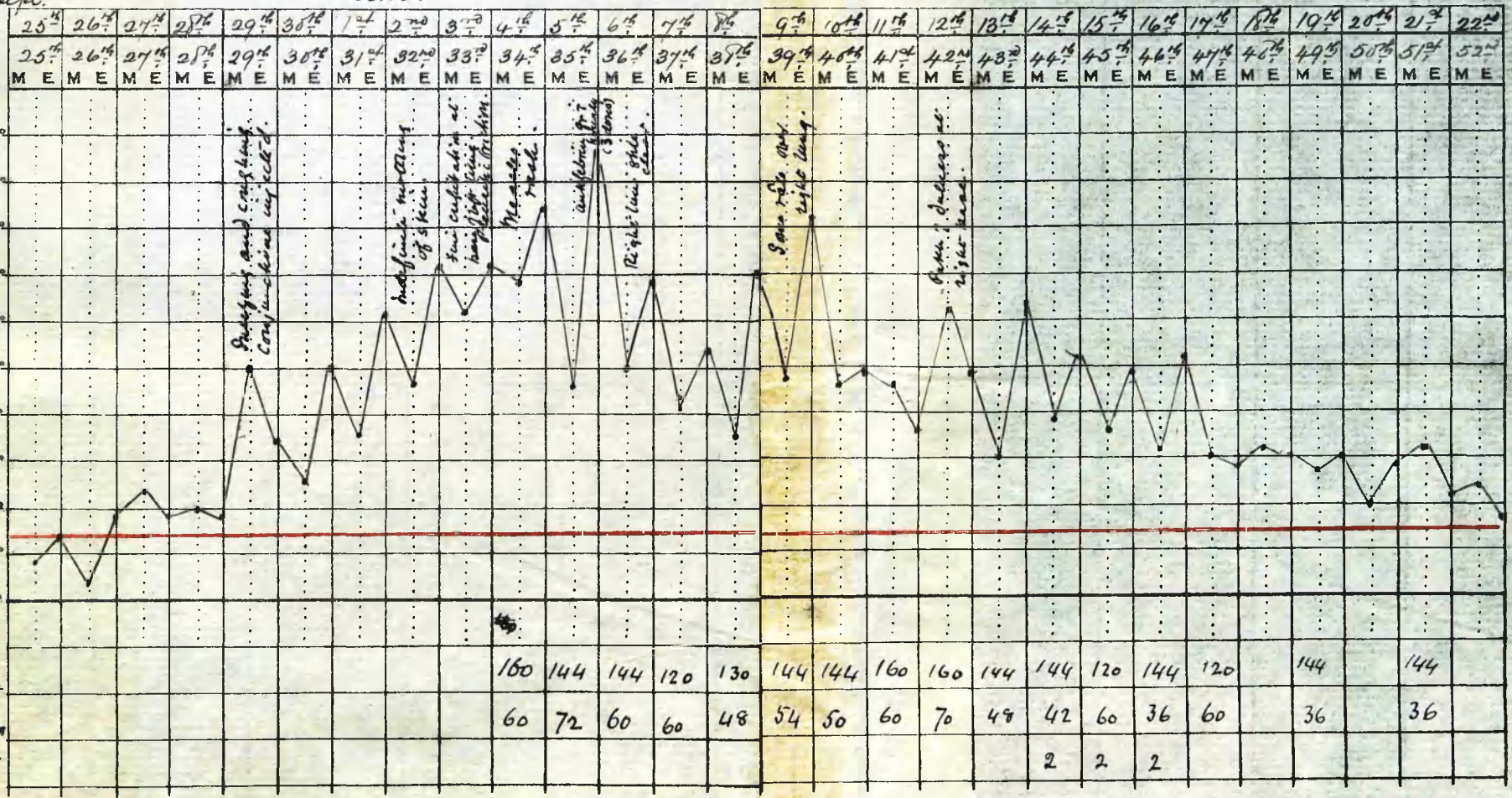
Sept. 29<sup>th</sup>. Temp. still elevated. Eyelids tumid. Conjunctivae injected: rough red papular rash seen in evening on the legs.

Sept. 30<sup>th</sup>. Profuse measles rash had now appeared. Lungs normal.

Oct. 1<sup>st</sup>. Coughing a good deal. Respirations

Date  
Day of Illness.

Sept. October



Kristina  
Armichael.  
Ward III W.  
Admitted  
10<sup>th</sup> Sept. 1891.

Scarlet fever  
Measles  
Nervous pneumonia  
Pulse  
Respirations  
Motions

Case V continued.

quick, but not laboured. Nothing abnormal discovered on physical examination of the chest.

Oct. 2<sup>nd</sup>. P/R = 120/36. Breathing quiet. Slight moist rale audible over centre of right lung posteriorly. Percussion note clear.

Oct. 5<sup>th</sup>. Temp. normal.

Oct. 12<sup>th</sup>. Purulent discharge from right ear.

Nov. 4<sup>th</sup>. Dismissed well.

Case VI.

This case was one complicated with broncho-pneumonia of a very severe type. The temperature chart attached, with notes, shows that the symptoms of pneumonia appeared before the rash.



The question which naturally arises with regard to the first of these cases is, was it a case of measles or not? As no rash appeared, and no post-mortem examination was permitted by the relatives, this question cannot be answered with absolute certainty, but I consider it to have been a case of ~~suppressed~~ measles in which the rash was suppressed, or delayed, death resulting from the rapid development of the lung symptoms. The diagnosis of the initial disease as scarlet fever was made ~~before~~<sup>by</sup> the doctor who saw the child before she was admitted to hospital, and was confirmed by several of the medical officers of the hospital, so that on this point there cannot be much doubt. The fact that a sister of the child developed measles at home a few days before ~~the~~ the lung symptoms appeared in this case was verified by reference to the medical attendant. The rapid development of the lung mischief, the early cyanosis and cardiac failure, the implication of the other lung, and the gravity of the symptoms out of proportion to the physical signs pointed to bronchio-pneumonia. Now out of our 300 cases of scarlet fever which I had an opportunity of personally observing while in Bethel Hospital, I cannot recollect a single case complicated with bronchio-pneumonia; one or two cases of lobar pneumonia arising in connection with acute nephritis did occur, but the symptoms in these cases did not resemble those in the one in question. On the other <sup>hand</sup> bronchio-pneumonia occurs in a very large percentage of cases of measles. The course of events in case VI also supports the conclusion that this case was one of

measles in which the rash was suppressed or delayed. In case VI, symptoms of broncho-pneumonia made their appearance before the rash came out.

Some assistance is also afforded by a consideration of the interval which intervened between the occurrence of this doubtful case and that of the first undoubted case of measles in the Ward. In the ~~first~~<sup>doubtful</sup> case the symptoms attributed to the onset of measles appeared on the 8<sup>th</sup> Sept. : in case II the rash of measles was noted on the 21<sup>st</sup> September, giving an incubation period of ten days on the supposition that the infection was derived from no. I.

Dr. Moore  
on and  
and "Fever"  
page 137.

Moore in his work on "The Eruptive and Continued Fevers" mentions two cases of children contracting measles while convalescing from Scarlet Fever. In these instances the symptoms of measles appeared in eleven days after exposure to infection. In the case under consideration the first case of undoubted measles occurred ten days after exposure to infection, and the second case twelve days after exposure, reckoning from the date when case no. I developed catarrhal symptoms.

With reference to case no. IV, it is doubtful if it can be included along with the others as one of measles. The leading symptoms were diarrhoea, incessant vomiting and frontal headache with associated with rapid rise of temperature. These symptoms appeared at the same time as cases II and III developed undoubted measles, and the case might be regarded as one of measles in which the poison attacked the intestines, the child dying from exhaustion due to the constant vomiting and diarrhoea. A profuse serous diarrhoea is not uncommon in the

Marvaud.  
 "Maladies du Soldat"  
 p. 291  
 mentions gastro-  
 abdominal symptoms  
 as having characterized  
 an epidemic of measles  
 at Lodève in 1869,  
 and as having in  
 one case been the  
 cause of death.

Early stages of measles, and is sometimes a dangerous complication. The impossibility of obtaining a post-mortem examination unfortunately left the nature of this case to conjecture. The sudden onset of the symptoms, the high temperature, and the occurrence of diarrhoea are against it having been one of tubercular meningitis.

As regards the general features of the cases the following points struck me at the ~~time~~ and may be briefly referred to.

- (a). The type of the disease was very severe, and complications occurred in most of the cases. Out of nine cases, four were fatal.
- (b) All the children in the ward - except, I think, one - who had not previously had measles became infected.
- (c) In nearly all the cases it was noticed that with the appearance of the symptoms of measles certain symptoms more characteristic of scarlet fever were, so to speak, re-called into activity; enlargement of the cervical glands and sore throat accompanying the catarrhal symptoms.
- (d) Albuminuria was very frequent, and although this may have been merely "febrile" albuminuria, yet my impression was that it occurred more frequently than in ordinary cases of measles.
- (e) In ~~two~~ all the cases which recovered otitis media complicated convalescence.



A case of Pneumonia complicated with  
Jaundice.

P<sup>te</sup> P. B., Medical Staff Corps, was admitted to hospital on 11<sup>th</sup> Dec. 1892 suffering from severe headache, pain in the back, and general malaise. The onset of the illness was very sudden. For a week past he has been engaged in nursing a bad case of pneumonia. Two days ago he got a writing, which was followed by a chill. On admission his temp. was 103°:

P<sup>r</sup> = 96/24; physical examination of the lungs revealed nothing abnormal.

Dec. 12<sup>th</sup>. Very weak and prostrate: dull <sup>in aspect</sup> and drowsy. Complains of severe frontal headache and has become very deaf. Has no cough: respirations 24 per minute. Slight crepitant râles audible at the base of the left lung. Pulse 96, intermittent, soft, and dilatated. Tongue is covered with a thick white fur: breath foul: bowels constipated. Has vomited frequently since onset of illness. No rash present.

Dec. 13<sup>th</sup>. Still very dull and drowsy. Complains greatly of headache. Vomited twice this forenoon.  
Tongue very foul.

Pulse intermits at every fourth beat.

Is still very deaf.

Dec. 14<sup>th</sup>. Condition unchanged. Complains of severe pain in the small of the back. Urine is distinctly albuminous, but not scanty (40 B. in 24 hours).

Dec. 16<sup>th</sup>. Is worse to-day: much weaker and very restless. He has now a slight cough and his respirations are shallow

and more rapid (28).

Physical Examination of the chest reveals fine crepitant râles at the left base posteriorly. R. M. is somewhat feebler over the same area.

This morning he was noticed to be distinctly jaundiced: Skin and conjunctivae are quite yellow. No complaint of pain in the epigastrium. Gall bladder is much enlarged. Urine gives reaction for bile pigment with nitric acid, and also with Gr. Iodi.

Evening. Cough more frequent: typical "rusty" spit of pneumonia has made its appearance.

Dec. 17<sup>th</sup> Much better. Expectoration now profuse, mucopurulent, mixed with purplish blood. The base of the left lung is now distinctly dull to percussion, and R. M. is tubular in character.

Still distinctly jaundiced: gall bladder enlarged and tender.

Pulse still soft and intermittent.

Evening. Pulse regular for the first time since onset of symptoms. Temp. has fallen to 100.8°.

Dec. 18<sup>th</sup> Improving. Tongue moist and fur clearing. Headache gone. Trace of albumen in urine.

Dec. 20<sup>th</sup> Gall bladder no longer enlarged: jaundice decreasing. Pulse 54: regular.

Dec. 24<sup>th</sup> Convalescent: Symptoms of jaundice have disappeared.

The chief point of interest in this case was the occurrence of jaundice as a complication, the jaundice evidently arising from catarrh of the bile duct. The early occurrence of severe vomiting and the appearance of the tongue suggest that this was secondary to duodenal catarrh. Fagge in his "Practical Medicine" Vol. I (Ed. 1891) p. 993 mentions jaundice as a complication of pneumonia, and says that ~~this~~ <sup>it</sup> may be due to a co-existing catarrh of the <sup>common</sup> bile ducts. Sterges and Coupland in their work on pneumonia give statistics as to the frequency of this complication which show it is somewhat rare, but in discussing its cause do not favor the view that it is due to catarrh of the bile ducts. The clinical course of ~~this~~ <sup>the</sup> case shows that the co-existing jaundice originated as stated above, in this instance at all events.

The case also illustrates a point frequently observed in the clinical course of cases of pneumonia, namely that the physical signs of the affection are frequently late in making their appearance, perhaps becoming more distinct when the constitutional symptoms are abating.





Note on a case of tubercular disease of the sacro-iliac synchondrosis terminating in tubercular meningitis accompanied by hemiplegia.

Gunner J. J. S., Royal Horse Artillery, aged 23, admitted to Station Hospital, Newbridge on 1<sup>st</sup> February 1893 complaining of pain in the left hip. His Medical History Sheet shows previous admissions for bronchitis and "Sciatica". He is a pale, flabby man, but is fairly well nourished. He states that he has suffered from pain in the left hip running down to the knee since April 1892, when a horse tried to bite him and bruised his left hip. No signs of hip joint disease were found on careful examination, but there was found to be tenderness on pressure over the upper part of the sacrum, and some fulness was noticed over the centre of the left gluteal region, though no fluctuation could be detected.

Lungs apparently normal. Several members of his family have died from phthisis.

Feb. 22<sup>nd</sup>. Is losing flesh; hectic flush on cheeks, specially noticeable in the evening.

Feb. 26<sup>th</sup>. Evening temp. has been slightly febrile for last three days. Is now suffering from night sweats.

March 6<sup>th</sup>. Has developed a slight cough. Night sweats continue. No change in local condition.

March 9<sup>th</sup>. Complains of pain in the neighborhood of the right nipple. R.M. at right apex feeble; inspiration jerky in character; occasional crepitant rales heard on auscultation.

March 17<sup>th</sup>. Tenderness is now distinctly

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Localized over left sacro-iliac synchondrosis, though fullness is noticed lower down in the center of the frontal region. No fluctuation detected.

March 21<sup>st</sup>. Complains of frontal headache. Is constipated. Tongue moist; red at edges: Center presents white fur. Has vomited once or twice during the day.

March 25<sup>th</sup>. Headache relieved: vomiting continues: is not frequent and usually occurs after taking food. Tongue still furred. Pupils equal in size and react normally to light: no squinting or nystagmus present.

March 26<sup>th</sup>. Headache less severe. Vomited twice after food. Is very dull and drowsy. Some puffiness beneath the eyes noticed. Pulse small and weak. Pupils normal. Urine free from albumen.

March 27<sup>th</sup>. Says he feels much better. Vomiting and headache gone. Does not look well, is drowsy and apathetic though he answers questions intelligently. Tongue furred: bowels still constipated.

March 28<sup>th</sup>. About 8 a.m. the orderly on duty noticed that this patient's mouth was drawn to the left side and that he was unable to speak, though he appeared conscious and seemed to understand what was said to him. He could swallow, though slowly and with some difficulty. When seen by me there were occasional twitchings of the mouth. He could put out his tongue on being told to do so: it did not deviate to one side or the other: he could not speak, but made inarticulate attempts to do so. Right pupil dilated to twice the size of the left one, which was normal in size. Face pale: slight hectic malar flush. Respirations quiet and regular.

Right arm and right leg completely paralyzed. Fingers flexed on the palm and rigid.

Heart sounds normal. Pulse 56, weak.

Temp. 96°.

Later in the day he tended to become comatose. Respirations slow: pulse weak. Twitching of mouth continued. Pupils became equal in size: both eyeballs deviate to left side and are directed upwards.

In the evening he partially recovered the use of his right arm. Passed urine into the bed.

March 29<sup>th</sup> Quite unconscious: face flushed. Both pupils dilated: hardly respond at all to light. Breathing heavy, but not exactly stertorous. Pulse 84, very small and weak. Respirations 30. Has loss of power in both arms, but most markedly now in the left. Limbs rigid: fingers flexed. Passes water in bed. Takes nourishment freely.

March 30<sup>th</sup> Still unconscious. The <sup>of right eye</sup> conjunctival vessels are injected: there is slight mucopurulent discharge present. Sacle centrale well marked. Abdomen retracted.

Coarse moist rales heard over both lungs, most numerous over the right one. Percussion note over apex of ~~the~~ right lung dull.

March 31<sup>st</sup> Became deeply comatose. Respirations shallow and sighing. Died at 10 a.m.

#### Post-mortem notes.

The body is fairly well nourished.

Heart normal.

Right lung presents fresh adhesions all over: pleura covering lower lobe is thick and fleshy. Lung weighs  $1\frac{3}{4}$  lbs.

The substance of the lung is studded with millet-seed-like tubercles throughout: these are very thickly set in the apex. Substance

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of lung is congested, but portions cut off float in water.

Left lung weighs 1 lb. It presents no adhesions. The upper lobe is studded with miliary tubercles, but these are less numerous than in the right lung.

Liver weighs 3 lbs. and is normal in appearance.

Spleen weighs 4 oz. Splenic substance normal in consistence: no tubercles present. A portion of the capsule is thickened. There is a small supernumerary spleen,  $\frac{1}{2}$  inch in diameter, present.

Kidneys normal.

Intestines healthy.

Brain. Surface intensely congested. The fissure of Sylvius on the left side is filled with pus. The arteries of the pia mater show small grey tubercles adherent to them. Lateral ventricles are distended with clear fluid.

Substance of the brain appears healthy on section.

The left sacro-iliac synchondrosis is found to be disorganized: part of the crest of the ilium adjacent to it is bare and rough. There is an abscess cavity, the size of a large pigeon's egg, containing thick curdy pus present over the synchondrosis.

### Note on above case.

The local affection in this case (tubercular disease of the sacro-iliac synchondrosis) is not one of common occurrence, but the chief point of interest in the case was the onset of hemiplegia and aphasia in connection with tubercular meningitis. The marked one-sided paralysis

Holmes & Stucke  
"System of Surgery"  
Vol II. p. 397,  
State Hunt from  
1871-1880 only  
These cases were  
treated in University  
College Hospital.

led to a diagnosis of tubercular abscess on the left side of the brain over the frontal convolutions. The paralysis, at first one sided, latterly affected the left side of the body also.

Fagge in his "Practice of Medicine" Vol. I p. 643 (Ed. 1891) refers to paralysis as a rare symptom in the tubercular meningitis of children, but as sometimes occurring in adults. He mentions three cases of tubercular meningitis with hemiplegia as having been observed at Guy's Hospital within recent years. Two of these were cases of right hemiplegia with aphasia.