



*"Rotheln as a Specific Disease"*  
*with notes of cases.*

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The epidemic from which the cases are drawn, occurring as it did along side an epidemic of measles, but quite independent of it, offered good opportunities of contracting measles with Röttheln, and of proving it to be a disease by itself, having no relation to either measles or scarlat fever.

One of the first facts noticed in support of this was, "that an attack of Röttheln in no way protects for either of these diseases", the converse being also true. Thus of the 50 cases, three viz: - 8. 33. 36, had measles previously, at 6 yrs 14 days and 2½ yrs respectively, while ten other cases were followed shortly after by measles viz: - 1. 2. 3. 5. 6. 7. 23. 28. 37. 50, at 39 days, 3 wks, 3 mos, 2 mos, 2 mos, 1 month, 1 wk, 5 wks, 3 wks and 5 wks respectively. As regards scarlat

fever, six of the cases had previously suffered from it viz: - 8. 9. 14. 18. 42. 48, at 2 years 2 mos, 1 yr, 1 yr, 5 yrs and 3 yrs respectively. From these numbers, occurring out of a total of 50 cases, it will be seen, that, specially as.

regards measles, there is no protection either way. In none of the cases did a relapse occur, nor had any of the cases suffered previously from the disease. All of the patients were young, the oldest being eleven years, while the youngest was only six months. In those cases which were attended through their attack of measles, shortly after the attack of Rötheln, the various points of contact were especially well marked, but this will be best understood, after a short general description of the disease, compiled from the various cases, following which the different points, will be treated separately.

"General Description."

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This disease, recurring principally in the young,  
and running a very mild course, with few or no  
manifestations, proved itself to be very infectious, and  
to a lesser degree contagious also, as in many  
instances only one child of a family was affected.  
Perhaps without any prodromata, or at most a slight  
sickness at bed-time, the patient awakes in the  
morning with the eruption appearing. This begins  
generally on the face, and spreads downwards  
over the rest of the body, the parts worst affected  
being, the Back of the neck and across the shoulders  
the extensor surfaces of the arms, and over the  
lower part of the back and buttocks. It  
consists of numerous small spots, of a colour  
intermediate between scarlet fever and measles  
being neither so livid as the one, nor so  
brilliant as the other, but more of a pink  
or rose-red. These spots which were not raised  
above the surface, were invariably set on a  
clear skin, unless in a few cases on the  
face, which was flushed, and where the

only tendency to confluence was noticed, for though often occurring in groups on the body, in no case did they show that tendency to run together as noticed in measles.

Two different forms of the eruption, both of which disappeared on pressure, were noticed.

One, the smaller or sprinkled variety, consisting of numerous spots about the size of a pin-point, often beginning as white, passing gradually to the red colour, which is brighter than that of the larger form, and then fading off through brown to white again.

With this form, which is often patchy, and confined to places, a slight inter-sensory erythema of the skin may be observed giving rise to the idea of scarlet fever.

In the other form, the spots are larger, and slightly darker in colour, and greatly resemble measles, differing from that however, in being more circular in outline, and not raised above the surface.

of the skin, and also in the absence of the  
velvety feel so characteristic of measles. The  
colour too though lighter as a whole than that  
of measles, was not uniform, being darker  
round the edges than in the centre, of each spot.  
The larger form of eruption did not seem to  
develop from the smaller, though both  
may be found on the same patient. In  
either form the colour was brighter on  
the lower half of the body than on the upper.  
The development of the rash is rapid, seldom  
exceeding 36 hrs and often taking only half  
that time. It seldom remains out longer  
than four days, two days being a common  
time, and disappears about as rapidly as  
it came leaving a characteristic brown  
mottling for a day or two longer.

As regards the pyrexia, some cases and among  
them, those with a copious rash, ran their  
entire course without any fever. The  
highest temperature recorded, in the notes,

in any uncomplicated case did not go above  $103^{\circ} F.$  and even in them, the general discomfort of the patient, was not nearly so great as in any other disease with a similar temperature. Among the most constant of the accompanying symptoms, was a well marked enlargement of the cervical, occipital and post auricular lymphatic glands, on one, and generally on both sides of the neck. In some cases this enlargement was noticed several days before the appearance of the rash and is therefore of diagnostic value.

Another constant accompaniment, was a slight swelling and reddening of the soft palate, pillars of the fauces, tonsils, and back-wall of the pharynx. This reddening, best seen on the soft palate, had not the spotted appearance of measles, but took the form of a general injection of blood-vessels, giving the whole a streaked appearance, which was very constant and characteristic.

Though the throat was thus slightly swollen, none of the patients complained of "sore throat."

The tongue was generally thickly coated, occasionally, in the early stages, somewhat resembling the strawberry tongue of scarlet fever, later however becoming dry and brown. The most characteristic thing about it was its great tendency to clean in patches, perhaps a half at a time, leaving a raw red surface behind. This was noticed in nearly all the cases.

In no case was the "coryza" of measles noticed to any degree, as evidenced by excessive nasal and lachrymal secretion, though the "Bronchial Catarrh" was perhaps more frequent as most of the patients had a short, dry, hard cough. This however seemed to arise in great part from the irritation of throat, owing to its swollen condition, and perhaps also, partly, to the pressure of enlarged bronchial glands, similar to those in the neck, setting up irritation lower down, as no signs

in the chest could be found to account for it though this was examined in all cases.

The whole course of the disease was a very short and favourable one, except insofar, as not hindered by complications which were the exception.

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The different periods and symptoms mentioned in this general description, will now be gone into a little more fully with special reference to the cases.

### "Incubation Period"

The stage of incubation as far as could be ascertained seemed to be very variable, on the whole being longer than in measles which is seldom more than 14 days. Thus in Cases Nos 4 & 10 it was 21 days, in Cases Nos 2 & 6. 20 days, in Cases No 7 & 9 19 days. in Cases No 15 & 16, 16 days, in 3 Cases Nos. 14, 25, & 26. 15 days. & in other Cases Nos 12, 18 & 20 it was 13 days, which makes the period vary between 13 and 21 days.

1. Keating's Cyclopaedia Vol I Pt. II.
2. Reported in Glos. med. journal Vol XXVI pg. 147.
3. Clinical medicine Vol II.
4. Glos. med. journal Vol XXVI pg. 454.

This variability of the incubation period has been almost constantly noticed, so much so as to be regarded by some as of diagnostic importance. Thus Edwards, puts it down, about 10 or 12 days having noticed it at 6 days and again at 3 days. Klastsch, has it at 14 to 21 days, so that it may be any thing up to 3 days.

### "Invasion Period."

This period, also of variable duration, is almost unaccompanied by symptoms, none of which are characteristic, unless in a few cases, where the enlarged glands in the neck were noticed, giving a probable idea of what was coming.

Thus 11 of the cases were entirely without symptoms till the rash appeared, 14 cases had symptoms for the previous 10 hours, 9 cases had them for 1 day, 10 cases for 2 days 4 cases for 3 days, and one case, each for 4, 5, 6 & 7 days which gives 42 cases, or not exceeding 2 days.

Comparing this with others, Edwards, gives an average of 3 days. Housman, 1 to 2 days and Jackson, 1 to 2 days. The symptoms accompanying this

1. Reported in Keating's Cyclopaedia Vol. I Pt. II
2. Clinical Medicine Vol. II

short invasion period were very indefinite, among them were noted slight sickness and vomiting, slight diarrhoea and headache, languor, and a feeling of being out of sorts, vomiting at night, hot skin, chilliness, and a short dry cough. In none of the cases was red watery eyes noticed, and only 2 cases had slight running at the nose, while none of them complained of sore throat. This contrasts very much with measles, with its almost constant 4 dys invasion period, accompanied by conjunctivitis and photophobia, with marked nasal and bronchial catarrh, and general puffiness of the face. In case 16 urticaria was noticed preceding the rash for 3 dys, a similar case being reported by Cullingworth<sup>1</sup>, but in no case were the symptoms at all so severe as "convulsions" mentioned by Prouseaux<sup>2</sup>. In none of the cases was any elevation of temperature noticed during this period, which is in accordance with the mildness of the disease.

I Reported in Glas. Med. Jour. Vol XXVI, pag 147.

## "Stage of Eruption."

After these prodromal symptoms have lasted a variable period, in the present cases, a few hrs to one week, the rash appears, as already noticed in the general description, first on the face, gradually spreading downwards over the rest of the body. In 11 of the cases the rash appeared apparently without symptoms, the patients going to bed quite well, to waken in the morning with the rash developed. The two different forms of Rash as described by Keatsch, were distinctly noticed. The larger form more resembling measles was noticed in 38 of the cases, as compared with measles. The chief distinguishing features were:—

- I. Spots more circular and set on a clear skin.
- II. Color being lighter, not so livid.
- III. No tendency to confluence.
- IV. Absence of velvety feel.
- V. Not raised above the surface.
- VI. Individual spots were lighter at the centre than at the periphery.

I Reported in Keating's cyclopaedia Vol. Pt II

II Glas. med. Journ. Vol XXVI pg. 454.

As regards the smaller or sprinkled variety, which more resembles scarlet fever, 17 cases were noted viz: - 1. 4. 18 19. 20. 21. 28. 33. 34. 37. 44. 47. This variety, which has a tendency to be confined to places, is often accompanied by an intervening slight erythema, which makes its resemblance to scarlet fever very misleading. In 3 of these cases 4. 44. 47. this was so marked on the legs, as taken alone, to make certain diagnosis almost impossible. In this connection showing the difficulties and dangers two cases may be cited, both of which diagnosed as scarlet fever and admitted as such among scarlet fever patients subsequently developed scarlet. The first case reported by Jouphlin, in which a girl attacked by Röteln, lasting 5 days, developed scarlet fever 3 days after recovery, having been admitted to scarlet fever ward and those exposed to it. The second case occurred in the Glasgow Fever Hospital and is reported by Jack where a child admitted as scarletina was afterwards seen to have Röteln and at once removed. Three days after

I *Glos. Med. Journ.* Vol XXVI Pg 148.

II *Keating's Cyclopaedia* Vol I Pt II.

admission her temperature went up, and she passed through a typical attack of Scarlatina running the usual course. From these two cases it will be seen that a diagnosis, resting on the rash alone, presents difficulties and is liable to lead to errors.

Apart from the hyperaemia above noted, the spots were invariably set on a clear skin, and distinct from one another, the only tendency to confluence noted being on the face, with in some cases a slight grouping on the body.

The spots entirely disappeared on pressure, to reappear again on removal, in only one case viz 35 were a few noticed to become petechial. The duration of the Eruption was variable, mostly short, especially in those cases where the rash was not general. Thus in Case 1 lasted 1 day. 17 cases = 2 dys. 18 cases = 3 dys. 19 cases = 4 dys and one case 5 dys. Macphail<sub>1</sub> reports one lasting 7 dys, while Alexander & Edwards<sub>2</sub> give each, one lasting 14 dys, an average being about 1 to 4 dys or much the same as measles.

~~■~~ This mildness and variability of the fever accompanying  
Koch's, is of diagnostic importance, when compared  
with measles, with its characteristic temperature  
chart.

## "Accompanying Symptoms."

### "Fever"

The fever during this period taken as a whole was slight. Thus 25 of the cases ran their whole course without it, 15 cases had 1 day's fever, 7 had 2 days, and 3 cases had more than 2 days, two of these last cases being accounted for by complications. The highest temperature recorded was 103°. Thus the experience from these cases was of slight fever, details of which are found accompanying each case, and unless where the particular epidemic happens to be severe, this is the usual condition. ✱

### "Enlarged Glands"

Enlargement and induration of the cervical, occipital, and post auricular glands was the most constant symptom, and was noticed in all of the cases unless <sup>one</sup> 134, where they were doubtful. Sometimes a whole chain was affected, in others only one or two glands, and in these last cases care was taken to eliminate past or present local exciting causes. Their duration was

I *Glos. Med. Journ.* Vol. XXVI Pg. 148.

longer than the Brown mottling following the rash, but in about a fortnight they had subsided to normal. In those cases developing measles shortly after Scarletina, the glands which had been so marked in the previous disease, were scarcely to be found in the latter, though all of the cases were pretty severe, which is a marked contrast and a good guide to diagnosis. In none of the cases did the glands assume the type of the "Collar neck" of Scarletina, though one such case is reported by Macphail. Enlargement of the glands of the axillae and groin were found in a few cases but not to such an extent as to be of diagnostic value.

### Condition of Throat

A slight swelling and reddening of the throat was also constant, the injected condition of the soft palate being especially characteristic, as compared with the spotted condition of the arches, and the general blush of Scarlet Fever. Though the throat was thus slightly

swollen, "Sore throat" was not complained of in any of the cases, though a few had a slight difficulty in swallowing. This condition of the throat, also, seemed to partly account for the short cough from which about half of them suffered as nothing could be found in the chest to account for it.

### "Coryza and Catarrh."

In the present cases this symptom was almost nil, and when it did occur was of the mildest type. Thus only 4 cases showed slight conjunctivitis, mostly of one eye only, and without the least approach to photophobia, while 5 others had a slight running at the nose. As regards the cough 23 of the cases had it in a greater or lesser degree, in one of the cases being noted as considerable and in another as croupy, but all of them, without physical signs in the chest. Thus as regards diagnosis, this symptom must be taken as a negative one,

if present at all, being only so in a slight degree, and not in anything like the severity of Measles.

### Pulse

The Pulse was noted to be invariably increased even in those cases where the temperature stood at normal, though its ratio to respiration was always normal. 120 Beats to the minute was a very common rise, but as high as 140 was noted. None of the cases showed any signs of heart failure, though in several of the Measles cases occurring at the same time, this was observed to a marked degree.

### Tongue

The tongue showed nothing characteristic in the early stages, at times resembling the Strawberry Tongue of Scarlatina, none of them being just foul and white, and occasionally dry & brown. The only characteristic thing about it was its tendency to clean in

T Keating's Cyclopaedia Vol: 11.

patches, leaving a raw red surface behind.  
Evidently in speaking of this symptom Rossford  
it to be almost constant.

"Urine"

owing to the age of the patients and other  
difficulties this could only be obtained in  
12 cases viz Cases 2, 4, 9, 10, 13, 14, 17, 21, 28, 39  
40, 41, and in all of these cases failed to  
give any evidence of albumen with the usual  
tests, even in Case 21, who a short time  
before had passed through an attack  
of acute nephritis. Various cases are  
reported in Keating's Cyclopaedia showing  
slight albuminuria, but these seem to be  
the exception, and are probably accounted  
for by the exceptional severity of the attack.

"Desquamation"

This was distinctly noted in 8 cases  
and in a 9<sup>th</sup> or slight as to be doubtful.  
Thus in case 17 = Distinct Branny desquam. of face, lips  
" " " 32 = slight " " of face.

In Case 35 = slight Branny desquam offace.

38 = " " " of nose & cheeks

40 = " " " face & upper chest.

43 = Marked " " face, slight  
on the Body.

44 = slight " " face

47 = " " " nose & chin.

in 29 = Doubtful " " offace

In all of them it will be seen that the skin  
came off in Branny or furfuraceous scales,  
not affecting the whole surface of the Body,  
being most general about the face,  
being so slight its duration could not  
be accurately determined, but in all of  
the cases it was over in a week, and  
in some of them in 3 days.

## "Complications"

The complications noted in the present cases were very few, and with the exception of three of them, of little or no account. The principal were those connected with the respiratory organs for though there were a greater number with bowel trouble, still they were very amenable to treatment and gave little trouble.

There were 9 cases with complications viz.

2 cases, 40 & 43. of Broncho-Pneumonia

4 cases, 19, 21, 38 & 40. of Diarrhoea

1 case, 10 Epistaxis

1 case, 16 Urticaria

1 case, 44 Meningitis

The two cases of Bronchitis with limited patches of Pneumonia were the most severe, each keeping the temperature up for nearly a week after the rash had faded, as will be seen on referring to the cases. The case of Tubercular Meningitis occurring in Case 44 was of course fatal, the patient dying

I Keating's Cyclopaedia Vol I Pt II.

within a fortnight after the rash had left. Edwards, in speaking of this complication records one case and regards his experience as unique.

### "Relapse"

A Relapse was not noticed in any of the cases, though several went through a typical attack of measles shortly after their present illness.

### "Prognosis"

Judging from the record of those 50 cases, this seems to be very good, only one case, viz. that of Sub-cerebral meningitis occurring.

### "Diagnosis"

From the foregoing it will be seen that to form a correct diagnosis it must be based on the different symptoms taken together, no separate symptom being so characteristic as to act as an infallible guide.

Among the most important aids to diagnosis

are :-

- I Rapid onset with few or no symptoms.
- II Fairly copious rash with little or no fever, and marked absence of constitutional disturbance.
- III Discrete character of the rash, of pink spots, varying in size.
- IV Condition of the glands and throat.

When these different conditions are taken together, then a pretty safe diagnosis may be made.

To make the differential diagnosis plainer, the main symptoms occurring in Röteln, measles, and scarlatina, will be compared in tabular form.

	Roteln	Measles	Scarlatina
Contagiousness	Infectious, slightly contagious	Contagious	Contagious
Incubation	Variable, 7 to 14 days	7 to 14	Short, one day or less
Invasion	Short, often absent, 3 days = extreme	Severe	absent
Catarrhal symptoms	Slight, generally absent.	Slight, spotted palate	marked.
Sore throat	Slight, injected palate	seldom	usual
Vomiting	seldom	definite course	high temperature characteristic rapid pulse
Fever	Slight indefinite.	uncommon	enlarged below angle of the jaw, collar neck
Glands	enlargement of cervical occipital, sub-mental typical	first in face, spreads for 3 days, duration 4-5 days	first on back of neck and chest, duration 1 to 6 days.
Eruption	first on face, spreads rapidly, duration 3-5 days	discrete, livid.	Brilliant red.
Colour	rose-red, pink.	Papules running together	minute points
Character	Discrete round spots	Thickly coated dry, brown, cracked.	Strawberry.
Tongue	Coated, clean in patches	rare	almost always.
Albuminuria	absent	Pruray	flakes.
Desquamation	Slight Pruray		

## "Appendix of Cases"

1. Wm Paterson act 8 yrs. 12 Oct. 1909. Never had Scarletina or Measles.

Apr. 21<sup>st</sup> Quite well 20<sup>th</sup>. Slightly out of sorts this morning. Rash appeared toward evening on the face.

22<sup>nd</sup> A sprinkled rash of small pink spots, spreading from face over the body. Discrete. Set on clear skin. Some groups T. 100. P. 90. Throat normal. Cervical Glands enlarged. No Coryza or conjunctivitis.

23<sup>rd</sup> Rash almost gone from face. Some new spots on legs. Temp. Pulse normal. Other wise well.

24<sup>th</sup> Rash gone. General mottling. Well.  
Rate = no desquamation. Glands normal.

Contracted Measles 29 days after, with 4 days incubation. Rash of blotches. Characteristic symptoms present. Cervical glands normal. Temperature on high as 103.6°. Lasted 4 days. No Bronchitis.

2. Andrew Paterson act 4 yrs. 12 Oct. 1909. Never had Meas. or Scarletina  
just 20 days since Brother's rash case.

May 1<sup>st</sup> Quite well throughout day. Skin hot at night

10<sup>th</sup> Rash appeared. small pink discrete spots on face trunk legs & arms. Face slightly flushed. T & P. normal. Glands well marked. No sickness. Coryza or Cough. Eys slightly red. Tongue slightly furred. Throat shows streaked palate & tonsils slightly enlarged.

11<sup>th</sup> Only a mottling to day. Throat better. Other wise well and running about. in fact never in Bed. Urine normal. No desquamation.

Went through typical attack of Measles, just as if previous rash cleared symptoms were. Glands normal.

3. Rizzie Rodgers aet 4 yrs. 402 Dundas Rd. New Haven or South.

Apr 6<sup>th</sup> - without previous apparent sickness or indisposition, the Rash appeared first on face, spreading over the body progressively. Small circular red spots no where running together.

T.N. P. 110. Glands much enlarged. Throats, otherwise normal.

7<sup>th</sup> Fading on face. More on body. P 90.

8<sup>th</sup> only a mottling left. Glands less.

9<sup>th</sup> well. no desquamation.

Went through typical Measles June 29<sup>th</sup>. 4 days incubation. profuse rash of blotches. Catarrhal symptoms severe with Bronchitis following. Glands normal.

4. Andrew Rodgers aet 5 yrs. 403 Dundas Rd. New Haven or South.  
Rash first 3 days after sister's case 3.

Apr 26<sup>th</sup> without any indisposition, Rash appeared on face spreading to body, very little being on arms & legs. same characters as sister's. T.N. P.N.

Glands enlarged. Slight prominence of papillae on tongue. otherwise normal. Urine normal.

27<sup>th</sup> Fading. Tongue clearer. otherwise well

28<sup>th</sup> slight mottling only.

29<sup>th</sup> well. Dismissed

Died 4 wks later of Tubercular Meningitis.

5. Matthew Fleming at 6. 12 Pa. St. Never had measles or scarlet.

20<sup>th</sup> 29<sup>th</sup> without being out at 20<sup>th</sup> Rash appeared on face & buttocks  
Discrete small circular pink spots.

23<sup>rd</sup> Spreads over the body. Tn. Tn. Glands well marked  
otherwise normal.

24<sup>th</sup> well only slight brown mottling. No desquam.

Contracted typical measles July 5<sup>th</sup> with 4 days invasion  
and severe catarrhal symptoms. Rash of blotches.  
Glands normal.

6. John Fleming at 6. 12 Pa. St. Never had measles or scarlet.  
Rash appeared 30 days after Brother Case 5.

May 11<sup>th</sup> Quite well yesterday. Rose this morning with rash of  
small circular pink spots on face with few on the body.  
Tn. P 110. Glands marked. Eyes slightly swollen. Palate  
streaked. otherwise well.

12<sup>th</sup> Rash all over to day, now hair running together.  
Tn. P. 80. otherwise well.

13<sup>th</sup> Rash gone from face - fading body. Well.

14<sup>th</sup> Mottling well. No desquamation.

Typical measles July 5<sup>th</sup> as in Case 5<sup>th</sup>

7. Robertus Fleming at 6. 12 Pa. St. Never had measles or scarlet.

Rash appeared 19 days after sister's case 6.

May 28<sup>th</sup> slight sick ness with a little running at eyes & nose.

29<sup>th</sup> Sprinkled rash of fine pink discrete spots on face with  
a few on body, resembling scarletina. Tn. P 111. Glands  
marked. otherwise normal.

30<sup>th</sup> More rash especially on arms, hips & thighs. As before

31<sup>st</sup> Gone from the face. Fading on body.

June 1<sup>st</sup> Mottling only. No desquamation. Glands normal.

Had typical measles June 25<sup>th</sup> as at 5 & 6.

8. Georgina Turner act 9. 727 front row. Had beard 2 yrs, 7 months 6 yrs ago.

Apr 2<sup>nd</sup> Previously well. Rash on face towards evening.

22<sup>nd</sup> When seen today, the rash of small circular discrete spots had spread over trunk and limbs. T<sub>99.5</sub> P<sub>100</sub>  
Glands marked. Otherwise normal.

23<sup>rd</sup> Rash gone from face. Feeding body. T<sub>101</sub> P<sub>101</sub> well.

24<sup>th</sup> Slight mottling, well. No desquamation.

9. Robt. Turner act 9. 727 front row. Scarlet 2 yrs ago. Never had measles.  
Rash appeared 19 days after sister's case 8.

May 7<sup>th</sup> out of sorts previous night. Rash appeared today about the chest accompanied by slight cough & running at the nose. Upper tongue

10<sup>th</sup> Profuse rash of pale pink spots all over body discrete.  
T<sub>100.4</sub> P<sub>110</sub>. Glands especially marked on right side. Slight  
reddening of the throat. Tongue brown fur.

11<sup>th</sup> Rash fading T<sub>101</sub> P<sub>68</sub>. Tongue clearing in patches. Throat  
yellow. Otherwise well. Urine normal.

12<sup>th</sup> Rash gone. Slight mottling. Skin to normal. No desquam.  
Feeding about quite well.

10. W. Turner act 5. 727 front row. Never had measles or scarlet.  
Rash appeared 2 days after sister's case 8.

May 10<sup>th</sup> Sick all night after general malaise for day or two.

11<sup>th</sup> Rash today of discrete circular pink spots all over body  
especially on knees, elbows, hips and back of hands T<sub>103</sub> P<sub>120</sub>  
Glands marked both sides. Tongue brown. Throat slightly  
irritated red. Slight cough. Urine normal.

12<sup>th</sup> Rash fading. T<sub>106</sub>. Tongue clearing. Throat almost normal  
Cough & slight epistaxis. No rales. Otherwise well.

13<sup>th</sup> Mottling only. Well unless for cough. No rales.

14<sup>th</sup> Well. Cough almost gone. No desquamation.

11. Catherine Patterson Oct 4. 1894. Here, had measles or scarlet fever.

- May 8<sup>th</sup> - after slight restlessness and anorexia previous afternoon, a rash appeared this morning of small pale pink spots, nowhere running together. Tn. P.M. glands marked. Tongue white fur. Soft palate streaked. Slight diarrhoea. Otherwise well.
- 9<sup>th</sup> Rash all over body. Diarrhoea better. As before.
- 10<sup>th</sup> Fading. Tongue cleaning in patches. Well
- 11<sup>th</sup> Gone. Tongue clean. Throat normal. Up well  
no desquamation.

12. Tom Patterson Oct 3. 1894. Here, had measles or scarlet fever.  
Rash appeared 13 days after sister's case 11.

May 20<sup>th</sup> after slight indisposition for previous 2 days, rash appeared on face this morning & spread rapidly. Face was flushed & eyes slightly watering.

21<sup>st</sup> Extensive rash of discrete pink spots on clear skin  
Tn. P.M. glands marked. Tongue & throat normal  
slight cough

22<sup>nd</sup> Fading some parts leaving mottling. Cough gone

23<sup>rd</sup> well. Dismissed. No desquamation.

13. John Arthur Oct 4. 1894. Here, had measles or scarlet fever.

May 9<sup>th</sup> only slightly unwell previous evening. Today sickness and slight vomiting. Bowels loose, slight headache. Rash appeared on face.

10<sup>th</sup> Rash well marked on face & body. Covering of rather darker discrete spots. Tn. P.M. still slightly sick & vomiting. Glands marked both sides. Tongue fine white fur with minute red points showing through. Throat swollen & red. Slight cough no coryza.

11<sup>th</sup> Rash purging face. Tongue clean on one side 1.00.4 P. 1.30.  
throat normal. otherwise as before.

12<sup>th</sup> Almost gone from body leaving mottling. Tn. P.M. Glands smaller  
Cough better. Tongue clean altogether. Throat better though  
palate still slightly streaked.

13<sup>th</sup> Mottling only. Everything else normal. No desquamation.

14. And<sup>ro</sup> Arthur Oct 5. 1869. Two had measles or scarlet fever.

Rash appeared 15 days after Brother's Case 13.

May 23<sup>rd</sup> After a slight indigestion on the previous night a rash of small spots  
like white spots appeared on face today with a few on body.  
Face is flushed. T 100° P 104° Glands well marked, tongue  
white. Palate streaked. Throat normal. Slight conjunctivitis &  
cough. No cough. Urine normal.

24<sup>th</sup> Rash spreading. especially over the buttocks, where are a few  
groups but not running together. T 100.6° P 130.  
Tongue brown very in front. otherwise as yesterday.

25<sup>th</sup> Gone from face and some parts of the body. Tn. Pn. Tongue  
clean and red. Cough gone. well.

26<sup>th</sup> Nothing only. otherwise well. no desquamation.

15 Mary Arthur Oct 3. 1869. Two had measles or scarlet.

Rash appear. 16 days after Brother's Case 13.

May 24<sup>th</sup> after slight indigestion for previous 2 days faint sparse  
rash of red spots appeared on the face, with a few on  
the body. T 99.2° P 100. Glands marked. Palate streaked  
no other symptoms.

25<sup>th</sup> Fading leaving only a mottling. well. Glands smaller.

26<sup>th</sup> Gone. no desquamation. well. Dismissed.

16 Alice Arthur Oct 2. 1869. Two had measles or scarlet.

Rash appear. 16 days after Brother's Case 13.

May 24<sup>th</sup> after suffering from numerous urticarial patches, with  
accompanying sickness since 19<sup>th</sup>, a rash of faint sparse  
red spots came out today, mostly on face. T 101.4° P 100.  
Glands marked. Palate streaked. no other symptoms.

25<sup>th</sup> Face free today, still on body. Tn. Pn. Tongue clean. well.

26<sup>th</sup> Gone, only mottling. well. no desquamation. Dismissed.

17 Mary Murray at 6. 46 Frontrow. Scarlet 1 yr ago. New, had measles.

May 13<sup>th</sup> Slight out of sorts previous day. Rash of small pale pink spots appeared on the face, today, which is flushed. T100. 6. P130. Glands marked slight cough. No coryza. Throat red & slightly swollen. Palate streaked. Tongue white. Urine normal.

14<sup>th</sup> Rash well developed all over body when the spots approach the measles color and not shape. T99. P120. Tongue clean in bits, ran red, throat rough better. Well.

15<sup>th</sup> Rash fading. Tn. P100. Well.

16<sup>th</sup> Gone. No itching. Distinct desquam. on face & hips.

18 Nellie Murray at 3. 46 Frontrow. Scarlat 1 yr ago. New, had measles.

May 25<sup>th</sup> Rash appeared 13 days after Sister's case 17.

After being out of sorts for a week without fever, erythema faint rash appeared to day on face and body. It is all pale red spots on a clear skin. Tn. P100. Glands normal. No cough coryza. or conjunctivitis. Palate streaked.

26<sup>th</sup> Gone from face fading on body. Still marked on the knees. Well unless for slight cough.

27<sup>th</sup> Gone. Well. No desquam.

19 Hizzie Murray at 6. 50 Frontrow. New. Rash measles or scarlat

May 23<sup>rd</sup> After slight sickness last night. a sprinkled pink rash appeared today on face & back, set on a clear skin. T102. P144. Glands enlarged. Tender. Tongue red. Palate streaked, throat normal. Slight cough - No coryza.

24<sup>th</sup> Rash all over body today. T99. P120. As yesterday.

25<sup>th</sup> Nothing. Tongue clean. Tn. Pn. Well.

26<sup>th</sup> Gone st. diarrhoea. Otherwise well.

27<sup>th</sup> Checked. Well. No desquam.

30. Jeannie Murray Oct. 4. 50 Front row. Never had measles or scarlet.  
Rash appeared a 13 days after measles case 19.  
out of spots since first with indistinct symptoms.

Jan 4<sup>th</sup> Sprinkled red rash of minute red spots to day. Tn. Pn. Glands  
marked. Palate streaked. No cough or Coryza. Throat  
normal. slight conjunctivitis.

5<sup>th</sup> Feeding. Eye Better. Well.

6<sup>th</sup> Gone. Well. No desquam. Running about.

31 David Fleming Oct 5. 2 School row. Never had measles or scarlet.  
Slight redness about for the last 3 nights.

Nov 3<sup>rd</sup> Sprinkled red rash, discrete beginning on face, but mostly  
on body to day. Spots of various sizes, not grouped  
T 100. 1140. Glands marked. slight cough. no coryza  
or conjunctivitis. Tongue shining red through a  
milky white fur. Slight palate streaked. Throat normal  
urine normal. previous acute nephritis.

22 Rash more out today as before. T 100. 4. 1120. Cough slightly  
harder

23<sup>rd</sup> Feeding. Tn. Pn. cough Better. Tongue cleaned red.

24 Mottling only. Better. slight diarrhoea.

25<sup>th</sup> Well. Rash entirely better. No desquam. Diarrhoea gone.

32 Samuel Fleming Oct 5. 2 School row. Never had measles or scarlet.

Nov 25<sup>th</sup> Fire eyes since the 20<sup>th</sup>. Hard cough. No coryza. Tongue  
slightly like scarlet fever. Slight palate streaked. Glands doubtless  
T 102. 2. 1120. Rash at night

23<sup>rd</sup> a not abundant rash of pink discrete spots on face & body  
already beginning to fade. T 99. 1120. Glands little enlarged  
throat & tongue normal. Better

24<sup>th</sup> Mottling. Tn. 1100. almost well

25<sup>th</sup> Rash gone. Well in every respect. No desquamation.

23. Andrew Fleming act 10 mos. 2 Scholtes. Never had measles or Scarlet.

May 24<sup>th</sup> Subj. starts.

25<sup>th</sup> Rash on face. Slight on body. Small pink spots on arms, skin.  
Tn. Pn. Glands slightly enlarged. Eyes heavy. Otherwise normal.

26<sup>th</sup> Fading on face. as before.

27<sup>th</sup> Only a mottling. well.

28<sup>th</sup> Perfectly well! Dismissed. No desquamation.

Had typical measles on June 5<sup>th</sup>.

24. Mary Chrytie act 10. 96 Fortine. Never had measles or Scarlet.  
out of sorts for last 2 days.

May 28<sup>th</sup> Rash on face to night.

26<sup>th</sup> Rash all over to day. Pink discrete spots, not thickly set.  
Tn. Pn. Glands well marked. Palate flushed & streaked.  
slight cough. no other symptoms. Running about.

28<sup>th</sup> Ran very mild course & today entirely gone  
no desquamation. well & running about.

25 James Chrytie act 2 } 96 Fortine. Never had measles or Scarlet.  
26 Andrew Chrytie act 5 }  
Both mild cases.

June 8<sup>th</sup> Without any preliminary symptoms. unless slight anorexia  
on 7<sup>th</sup> June, a fine rash appeared on face to day.  
Tn. no other sypts.

9<sup>th</sup> - Rash all over today. Fine pink spots. Profuse on buttocks  
on arms. Tn. Glands marked. Tongue foul.  
Palate slightly streaked. as before.

10<sup>th</sup> Fading on the face. In statu quo.

11<sup>th</sup> Mottling only. otherwise well. Glands, not quite  
normal. running about. dismissed.  
no desquamation.

27 Jeanie Skillen Oct 6. 14 Table Mt. Never had measles or scarlet.

May 25<sup>th</sup> Rangoia and sick to day. Vomiting with slight diarrhoea in evening. Eyes slightly swollen and a little red. Pink rash all night.

26<sup>th</sup> Universal rash of small pink spots all over. T 100° P 120.  
Glands marked. Palate slightly thickened. Tongue white with faint  
no other symptoms.

27<sup>th</sup> Fading. Tn. Proc. Tongue clearing in patches. As before.

28<sup>th</sup> Slight mottling. Tn. Th. Tongue clear. Throat & palate normal

29<sup>th</sup> Well. No desquamation. Dismissed.

25 John Wilkinson Oct 9. 16 Table Mt. Never had measles or scarlet.

May 8<sup>th</sup> Previous day quite well. Woke this morning with rash present on face but none on body. Small pink spots. No blotches seen on clear skin. Tn. Pn. Glands marked. One eye red & watery. No cough or coryza. Throat slightly red. Not sore. Tongue white fur with a few prominent papillae. Slight diarrhoea. Urine was well.

9<sup>th</sup> Only a faint mottling left to day and swollen for a little redness left in throat is well running about.  
no desquamation.

Had typical measles June 15. Uterus Protrudata Gland normal at entrance of uterus severe. followed by severe pneumonia with high temperature 104° for over a week. I was before the accompanying pleurisy had cleared up.

29 Alex<sup>r</sup> Baxter Oct 4. Cedar Grove. Never had measles or scarlet.

Apr 19<sup>th</sup> Feverish with sick head and headache during night.

20<sup>th</sup> Sick at intervals. Tongue thickly coated. Glands & large glands.

Tn. no sore throat. Coryza. Cough. or sore eyes.

21<sup>st</sup> Rash. pink roundish spots on clear skin in scattered over body face. T 99° no other symptoms.

22<sup>nd</sup> Rash almost gone, leaving slight pale brown stain.

24<sup>th</sup> Gone. slight dry cough & sneezing. other wise well

28<sup>th</sup> Doubtful Branney desquamation on face.

30. James Harte, <sup>at 133</sup> 101 Cedar St. Never had measles or scarlet.

May 24<sup>th</sup> Vomiting all night during which he was restless.

25<sup>th</sup> Rash slightly out on face & hips.

26<sup>th</sup> Seen today. Rash round pink spots of various sizes none large. Much of skin normal skin. T 101. P 90. Glands very distinct. Palate & tonsils red and slightly swollen. Slight conjunctival injection. Feels quite well. No cough or coryza.

27<sup>th</sup> Rash entirely gone. Tn. everything else well. No desquamation.

31 Daniel McCarry at 3. 28 1/2 Rd. St. Never had measles or scarlet.

May 16<sup>th</sup> Slight restlessness

11<sup>th</sup> Increased today. Rash appears all night on back

12<sup>th</sup> Rash increasing. Otherwise well.

13<sup>th</sup> Rash at its height. Small pink spots seen clear skin, all over body, legs. Arms back of hands. Little on nose on the face. Tn. P 90. Glands distinct both sides. Tongue clean. Throat slightly red with soft palate injected. No other symptoms. Well running about.

14<sup>th</sup> Mottling only. Well. No desquamation.

32 Bella Buchanan at 4. 14 1/2 Rd. St. Never had measles or scarlet

May 10<sup>th</sup> Feverish & restless for first time tonight.

11<sup>th</sup> Temp 100. T 102. P 120. Eyes lids swollen. Tongue brown. Throat slightly red. Glands a little enlarged. Considerable cough.

12<sup>th</sup> Rash. Small red spots on buttocks & body. Face flushed. T 99. P 124. Glands marked. Palate streaked. Tongue like beef ham, cleaning in patches. Cough few rales at right apex.

13<sup>th</sup> Rash still coming out but sparse. Tn. P 90. Cough better. Rales gone. Throat better.

14<sup>th</sup> Rash fading. Tn. P 98. Well. Throat rough almost normal.

15<sup>th</sup> Rash gone. only a mottling. Well. Slight brownish desquamation on the face.

33 John Morrison Oct 3. 87 Yorkine. Measles 14 days ago. Never had scarlet.

after being attended through typical measles a fortnight ago he

<sup>showed</sup>  
10<sup>th</sup> slight indisposition to day.

11<sup>th</sup> mother noticed a few pink spots on back of face, without any accompanying symptoms.

14<sup>th</sup> typical spots still seen on back, with a mottling in other places. Glands distinct, not so in his measles attack. Otherwise perfectly well. Fed as in bed. No desquamation.

34 Robert Butcher Oct 6 mos. 55 Frontrow. Never had measles or scarlet.

May 15<sup>th</sup> here in the morning. slight sickness at night

16<sup>th</sup> sprinkled rash of pale pink spots on Body face and arms most abundant about chin. buttocks. Extensors of arms discrete. T.N. Pn. Glands not much enlarged. Slight fullness about eyes. Tongue & throat normal. No cough.

17<sup>th</sup> Rash almost gone. Slight cough since last night.

18. Rash gone. Well.

35 Wm Stevenson <sup>104</sup> Yorkine. Never had measles or scarlet.

May 11<sup>th</sup> slightly out of sorts at night

12<sup>th</sup> slight rash on Body to day. little cough.

14<sup>th</sup> Profuse rash on face Body legs and arms, of various sizes, but never running together. On the back of the shoulders some are petechial. T 100°. P 120 Glands marked. Throat red but not swollen. Tonsils nicely inflamed with red edges. Hard cough. Tongue indefinite.

17<sup>th</sup> Formal course till now. Rash entirely gone. Glands still enlarged. otherwise well.

21<sup>st</sup> distinct Branny desquam. of face only. Well.

N.B. A Brother and sister both had typical measles at the same time as the case had the attack of Rotheln.

36 Hellie Wells Oct 5. 41 Cornhill st. measles  $2\frac{1}{2}$  yrs ago. Her. had scarlet.

Dry cough for a day or two without coryza.

May 12<sup>th</sup> Rash appeared on face last night

11<sup>th</sup> Rash all over the body & limbs & days. Abundant red spots of various sizes more large or grouped. Tn. Glands well marked. Lonsils slightly red & swollen. Palate dusky red. Tongue thick yellow fur.

12<sup>th</sup> As yesterday.

13<sup>th</sup> Rash entirely gone. Running about. Her. in bed. No desquamation.

37. Joseph Honeywell Oct 2<sup>1/2</sup>. 190. 29. Her. had measles or scarlet

May 13<sup>th</sup> Sprinkled red rash on the neck & shoulders of pink spots on a clear skin. Tn. Glands detectable. Tongue white. No other symptoms. Rash discovered accidentally.

14<sup>th</sup> Rash spreading over the body. Fading on shoulders. Running about.

15<sup>th</sup> Gone. Quite well.

Had an attack of typical measles on June 4<sup>th</sup>.

38 Joseph Watt Oct 1<sup>3/4</sup> 3. State row. Never had measles or scarlet.

May 18<sup>th</sup> Sick, vomiting & bowels loose.

19<sup>th</sup> As yesterday. Considerable thirst. Vomiting & purging.

20<sup>th</sup> Slight cough. Nose runs slightly running.

21<sup>st</sup> Rash appeared today (1<sup>st</sup> seen). on the face spreading on to body. Sparse pink spots on a clear skin. T. 60. P. 130. Glands marked both sides. Slight croupy cough. Tongue white. Throat red & swollen. Bowels still loose.

22<sup>nd</sup> Rash as yesterday. Vomiting ceased. Bowels better. Cough easier.

23<sup>rd</sup> Rash almost gone from the face. Fading on body. Tn. P. 130. Tongue cleaning in patches. Bowels ceased. Throat improving.

24<sup>th</sup> Nothing only today. Tongue clean. Throat normal

25<sup>th</sup> Well. slight desquamation about nose & cheeks.

39. Samuel Hart Oct 6. 16 Stetter road. Never had measles or scarlet.

May 21<sup>st</sup> Sick vomit & stools for past 2 days. Slight cough. Rash appeared on face to day, also a few on the Body. Small pink discrete spots. T 99.5° P 100. Glands marked on one side. Tongue white fur with red papillae inclining to strawberry & secret. Throat red not sore or swollen. Cough no rales. Urine normal.

22<sup>nd</sup> Rash on yesterday. T 100° P 100. Glands marked both sides. Cough easier

23<sup>rd</sup> Rash fading leaving a mottling. T 100° P 100. Palate streaked. As before.

24<sup>th</sup> Mottling only. Better every way.

25<sup>th</sup> Rash entirely gone. Well & up. No desquamation.

40 Doria Futton Oct 7. 30 Feb. 09. Never had measles or scarlet.

May 26<sup>th</sup> Sick for 3 days. Tongue doubtful. Slight cough.

27<sup>th</sup> Rash discrete pink spots, on clear skin on the face with a few on Body. T 103° P 105. Glands marked. Slight cough & conjunctivitis. Tongue Beefham. Palate spotted. Throat slightly red. Nose running with sneezing. Bowels loose. Urine normal.

28<sup>th</sup> Rash general, discrete. Nowhere grouped. T 102.6° P 130. As before.

29<sup>th</sup> Rash fading on face. Throat normal. Cough better. Nose still running. Tongue like Beefham. T 102° P 134.

30<sup>th</sup> Rash fading on Body. T 103.2° P 130. Cause of this = Bronchitis otherwise well. Slight desquamation.

31<sup>st</sup> Rash almost entirely gone, unless for mottling. Bronchitis better. T 101.8° P 130.

32<sup>nd</sup> T 100° P 100. Bronchitis better. Weak.

33<sup>rd</sup> T 101.2° P 130. Vomited blood after coughing. Discerned some patches of dullness, with tubular breathing.

34<sup>th</sup> T 100° P 130. Slightly better.

35<sup>th</sup> T 101° P 135. Spit streaked with blood. Doubtful friction at apex in front in chest.

36<sup>th</sup> T 100° P 100. All resolved but one part which is in progress.

37<sup>th</sup> T 100° P 100. Chest clear. Well.

The treatment was the usual for the disease apart from Kothulu viz. Expectorants, Stimulants, Poultices etc.

41 Sarah Blair etc. 4 Foot row. Never had measles or scarlet.

May 19<sup>th</sup>. Tick, slight cough, coryza and sneezing. Epistaxis with a few spots on face at night.

20<sup>th</sup> Spots all over body today. pale pink set on clear skin. T 103.4° P 130. Glands slightly enlarged. Throat red. Hard cough. Tongue a little like that of scarlet fever.

21<sup>st</sup> Rash better out today. Larger spots on the back. Not grouped. T 99.5° P 120. Glands marked on right side. Less so on left. Tongue. Throat. Eyes - nose urine = normal.

22<sup>nd</sup> Rash gone from face. Fading on body legs. Tn. Pn. well.

23<sup>rd</sup> Only a slight mottling. Quite well. No desquamation.

42 John Murdoch M<sup>th</sup> Kenzie. out 7. 106-39. Had scarlet 5 yrs ago. Never measles.

May 22<sup>nd</sup> out of sorts for the last day or two. Slight cough. faint pink spots on face & body. T 99° P 120. Glands doubtful. No coryza or conjunctivitis. Tongue slightly furred. Throat normal.

23<sup>rd</sup> Rash fading. Leaving a brown mottling. Tn° P 110. Tongue cleaning in patches leaving streak like beef ham. Glands slightly enlarged. Well

24<sup>th</sup> Still a mottling. Tongue clean.

25<sup>th</sup> Rash entirely gone. Up & well. No desquamation.

143 Jessie Hamilton Oct 4. @ cottage. Heretofore measles or scarlet fever.

May 19<sup>th</sup> out of sorts with slight running at eyes & nose.

21<sup>st</sup> Rash of small pink spots beginning on the face with a few on body.

T100° P130. Glands marked. Throat red & slightly swollen.  
Cough considerable. Tongue indefinite.

22<sup>nd</sup> Triangular rash all over. Spots on the face are on flushed skin.  
Some spots on body are larger, and in those parts where friction  
are set on flushed skin. T99.2 P115.

23<sup>rd</sup> Rash fading on face which is less flushed. Tn° P100. Slight  
conjunctivitis. Cough considerable & irritating. Tongue white  
throat indefinite & doubtful.

24<sup>th</sup> Rash fading on body. Tn° P100. Cough still irritating, no rales,  
Other symptoms as before.

25<sup>th</sup> Nothing only. T99° P100. Slight Bronchitis on left side.  
Tongue pale. Throat normal. Marked Brassy respiration  
on face.

26<sup>th</sup> Bronchitis worse spreading to other side. Slight dullness  
and tubular breathing at right apex. T100° P130.  
otherwise as before.

27<sup>th</sup> Chest better. T101.6° P108. Much better of her self.

28<sup>th</sup> Chest almost clear. Tn°.

29<sup>th</sup> well.

44 John Toyper cat 4. 2 Dyfed side. Never had measles or scarlet

May 22<sup>nd</sup>? Slight sore throat.

20<sup>th</sup> Rash this morning sparse pink spots on clear skin on the face with a few on the Body. T<sup>n</sup> 1120. Glands slightly enlarged. Tongue red. Soft palate injected. Slight conjunctivitis & cough. No coryza. Throat normal.

24<sup>th</sup> Sprinkled rash very like scarlet fever on the legs. Discrete on the Body. Tongue clean. As before.

25<sup>th</sup> Mottling only. Slight desquamation on face. Other wise normal. Well.

45 Wm McGrath cat 4 1/2. 438 Dundrum Rd. Never had measles or scarlet

May 23<sup>rd</sup> Vomiting during night & complained of sore throat.

24<sup>th</sup> Better in the morning. Shivering at night

25<sup>th</sup> Fine pink spots, well defined on a clear skin, thickly set on arms hips legs & face. fainter on Body.

T<sup>n</sup> 99.2°. P<sup>100</sup>. Glands well marked. Tongue red with prominent papillae like scarlet. Palate flushed. No other symptoms.

26<sup>th</sup> Rash gone unless for slight mottling. T<sup>100</sup> 1120. Still slightly sick. Throat sores. Tongue dry & raw.

27<sup>th</sup> Still a little sick. Throat better. T<sup>n</sup> 109°.

28<sup>th</sup> Well dismissed. No desquamation.

46 Jas. Orhuckle cat 4 1/2 yrs. 336 Cedar St. has had measles of Corset.

May 25<sup>th</sup> Sick

26<sup>th</sup> as yesterday. a few spots on neck.

27<sup>th</sup> Bright pink discrete spots all over Body. Face red & flushed giving the spots the appearance of being confluent. Tn<sup>o</sup>. Glands marked. Tongue thickly furred. Slight cough. no other symptoms.

28<sup>th</sup> mottling only. Tongue still foul. Throat normal. Glands distinct. Dandruff dry granulation on face.

29<sup>th</sup> Rash completely gone. Normal. No desquamation.

47 John M Ewen. cat 4. 116b 29. has had measles of Corset.

May 23<sup>rd</sup> Sick at night

24<sup>th</sup> none so with vomiting at night

25<sup>th</sup> Rash on face all none on the Body. Small discrete pink spots face flushed. T102° P130. Glands enlarged. Paecete flushed. Throat otherwise normal. No cough any etc.

26<sup>th</sup> Rash on Body today, similar to face. T101° P130. Slight conjunctivitis. Tongue raw & red with prominent papillae.

27<sup>th</sup> Rash abundant, somewhat resembling scarlet on the legs from an accompanying slight erythema. T100.8° P112.

28<sup>th</sup> mottling only. Tn° P100. Tongue slightly dry. Better.

29<sup>th</sup> slight desquamation on nose & chin. Well.

48 Janet McDougall act 5. 14 Nov 1905. Has scarlet 3 m ago. Her hair is red.

May 25<sup>th</sup> slightly out of sorts during day. Rash seen at night.

26<sup>th</sup> Conena with small pink circular spots, discrete. All over Body.  
Tn<sup>o</sup>. P100. Glands well marked. Palate streaked. <sup>no other symptoms</sup>

27<sup>th</sup> Fading leaving mottling. Otherwise well.

28<sup>th</sup> Rash completely gone. Well. No desquamation.

49 James Brennan act 11. 470 Sims. Her hair had measles or scarlet.

May 16<sup>th</sup> after Barking during the day was tick and inclined to vomit at night

17<sup>th</sup> Rash noticed during day.

18<sup>th</sup> Rash all over of discrete pale pink spots on a clear skin.  
Tn<sup>o</sup>. Glands marked. Tongue faint thick. Palate streaked  
no other symptoms

19<sup>th</sup> Fading. Mottling. Well.

20<sup>th</sup>. Well - No desquamation.

50 Bridget McGowan act 5. Dundrum. Her hair had measles or scarlet

June 20<sup>th</sup> Quite well.

July 1<sup>st</sup> Profuse rash of pink spots now then grouped, & all set on clear skin. Tn<sup>o</sup>. Glands marked. Palate streaked. ~~no other symptoms~~. In fact patient is quite well.

2<sup>nd</sup> only a mottling today. Well.

3<sup>rd</sup> Dismissed. No desquamation.

Developed typical measles August 18<sup>th</sup> with Coryza conjunctivitis etc. Glands normal. followed by Bronchitis for 1 wk.