Twort
Bayshot.

Series 1

Preliminary Expts (year 1905-6.)

Fi(1) Blood films from various sub-acute Rheumatism were made & stained by all the ordinary dyes & combinations (aniline) with Negative Results

Series 2

Preliminary exps.

A large number of blood cultures (from early-acute Rheumatism cases) taken on all the ordinary media on normal saline from normal saline + 1% Sod Citrate cultures being grown @ room @ 25 to 37° C for periods up to 4 weeks. No naked eye sign of growth (except sometimes slight opalescence but this is also seen with normal bloods) films made from the blood cultures @ various stages.. stained various dyes & aniline simple & ordinary showed no sign of organisms.
not even with Giemsa after 24 hrs or when first mordanted with tannic acid or the mordant of Setnoff flagella stain when fixed with any of the ordinary

fixatives such as Abs alcohol.
4% formalin 10% formalin
Muller's fluid 10% formalin muller
etc
All alike gave negative results.

Series 3.

3 lap number Preliminary exp.

Blood films direct from patients with ~~sub~~-acute rheumatism are after cultivation fixed in formalin, etc ~~who~~ were tested with various ppt processes the times, concentrations, fixation mordants & stains were varied in every possible way

mostly mordanted with Petroff mordant films were afterwards treated with perchloride of iron. Petroff stain. various lead salts & copper salts. afterwards ppted in with ammonium sulphide & in the case of iron. also with potassium ferrocyanide, the iron being dissolved in water also in alcohol.

Series 4

Preliminary exps.

Felis Cat blood direct from heart
+ after growing blood in Salmi citrate
etc, were stained with the
following green double dyes

Neutral Red – light green.
Safranin – light green
Gentian Violet – light green
Basic Fuchsin – light green
Versuvin – light green.
Basic Fuchsin – Thyphanrot
Thionin – Acid Fuchsin.
Malachite green – Congo Red
Malachite green – Eosin

stained directly; after fixing in pure
Methyl alcohol
and after fixing in Formalin +
mordanting with Gettnoff flagella
mordant
All gave absolutely negative
results, although many Mts
staining with a mordant stain

Typhoid flagella.

Series 5
Preliminary Exp.

106 blood culture was taken from Richard Hurley Carrie under Dr Wagner

films of blood were also taken some of these were stained directly after fixing some with aniline dyes, some with Giemsa method. all negative results

Other films were fixed for 3 or 4 days - 4% formalin - dilution 0

Other stained Giemsa's method these showed a number delicate threads somewhat like spirochaeta.

Series 6

Preliminary Expts.

106 Films of blood from cases of Gout and Rheumatism & from normal people were made: fixed for 30 or 45 days in 4% & some in 10% formalin & stained by Giemsa's method all solutions being made up with redistilled sterile water & this alone used for washing. Films were flooded in open porcelain vessels for fixing & covered with a glass sheet.

All films including controls showed the ? spirochaete not confined to the blood area. Also some bacilli were present in the films not confined to the blood area.

Series 7

Preliminary Exps.

106 Blood of Pat. with acute Rheumatic Case was taken from vein with a sterile syringe & quantities varying from a few drops to 1/10 c was placed in sterile tubes containing

I NACl 85% Sod Cit 1% in redistilled water

II same as I + 4% formalin.

Series 8

Preliminary Exp.

[No. 6 100 cc] Blood from vein of P. Fildes was taken & treated as in exp series and showed same results

Series 9

Preliminary Steps

Blood taken from sub acute Rheumatic case from vein was placed in various fixing sols & dropped into 10% formalin Muller Muller-Puchlond's fluid

afterwards using various methods including Zeltnoff's about all gave negative results

Series 10

Preliminary Expts

1/12/06 Some blood from sub acute rheumatism case was added to placenta stock redistilled water incubation at 37°C for 24 hrs, centrifuged ppt fixed in 10% formalin etc sections cut, stained various methods including Gettner's all gave negative results.

Series. 11

Preliminary Expts

21/12/06 P.M. J. Richard Hurley.
staining of nodules by Levaditi
various aniline simple & double
dyes also Jolinoff's method
also liver & spleen same methods
all gave negative results.

Series 12

Preliminary Exps.

Various stains were tried on typhoid flagella
these were stained with Fuchsin Light Green
Gentian Violet Light Green, Fuchsin Cryparrot
after mordanting in Fehrich's mordant.
also by Alcohol sol of Fe_2Cl_6 then
Ferrocyanide of Potassium also Fe_2Cl_6 then
Ammonium sulphide

Exp 13.

Chimpanzee (male) was inoc
with blood from gonococ Rheumatism 5/11/08
Harry Bicker B/no
George bed 25 under Dr. Dawson
10cc blood was obtained @ 12 noon 5/11/08
from arm vein. blood was brought
over in syringe to animal house
immediately without placing in citrate
and 2cc inoculated into each in R & L
median basilic vein. in R & L arm respect
some of blood in R arm went
subcutaneously. but probably
not more than 1cc altogether.
Note' The Chimp': @ the time of the
inoculation appeared quite normal
except he had some diarrhoea.
Some cold as he continued to sneeze
had running from nose, he was
inoculated in this state in the
expectation that his resistance would
be lower & would be more likely take

Thurs	5/11/08	1 P.M.	mic	5 cc blood
Wed	6/11/08	3 P.M.	lumps	97·6
Mond	9/11/08	4 P.M.	"	97
Thurs	10/11/08	"	"	99·4
Wed	11/11/08	"		100·8
Thurs	12/11/08	"		97
Wed	13/11/08	"		95·5
Sat	14/11/08	"		95·2
Mond	16/11/08	"		95·6
Tues	17/11/08	"		95·4
Wed	18/11/08	"		95
Thurs	19/11/08	"		96·5
Wed	20/11/08	"		97·9
Sat	21/11/08	not taken		
Mond	23/11/08	"		95·1
Tues	24/11/08	"		95·5
Wed	25/11/08	12 noon		95·4
"	"	2 P.M.		98·8
"	"	4 P.M.		99·3
"	"	5·30 P.M.		99·8
Thurs	26/11/08	10·30 A.M.		99·7
"	"	12 noon		96·8

Thurs	26/11/08	2 P.M.		96·8
"	"	4 P.M.		96·9
Friday	27/11/08	10 am	axe	98·9
"	"	10·30 am	"	98·4
"	"	12 noon	axe	98·5
"	"	2 P.M.	"	98·3
"	"	4 P.M.	"	98·4
"	"	5·30 P.M.	"	98·5
Saturday	28/11/08	10·0 am	"	99·4
"	"	10·30 am	"	98·4
"	"	12 noon	"	97·0
"	"	2 P.M.	"	99·0
"	"	4 P.M.	"	98·4
Monday	30/11/08	10·30 am.	"	99·2
"	"	12 noon	"	100·2
"	"	2 P.M.	"	98·8
"	"	5 P.M.	"	100·4
Tuesday	1/12/08	10·30 am	"	97·4
"	"	12 noon	"	96·8
"	"	2 P.M.	"	95·8
Wednesday	2/12/08	10·30 am	"	95
			axillary	97·8
"	"		"	

infected with Rheumatism
as a result of the inoculation
13/11/08 Cold. head continues a day
diarrhoea. Monkey has been
fed on Milk, rice & bread & butter
since 10th. temp keeps down &
he appears quite normal Dr. Warn
examined him & declared heart
& lungs to be quite normal
No chorea or other evidence
Rheumatism. he had a temp
on 10th & 11th? Cold??
Monkey had two grains of Calomel
18/11/08 Monkey put on
Hydrarg c Creta 2gr Salol 3gr
one powder a day
20/11/08 Powders given 3 times a day
diarrhoea is worse it runs from
him not v. frequently but quite
watery. monkey is getting ~~very thin~~
thin, motions sour & foul smelling.
he takes his food badly, etc

getting weak. heart still appears
normal & there is no evidence
of Rheumatism
21/11/08 Monkey vomited up a round
worm Ascaris lumbr
about 5 in long. diarrhoea persists
monkey weaker & thinner, takes food
very badly. no evidence of Rheumatism
Hyd c creta + Solol powders ceased. &
Monkey given 2gr of Santonin
at 2 P.M. Breath very foul, some stomatitis
22/11/08 Ami Monkey given 2gr of Calomel
23/11/08 Monkey has passed no worms
has had one semi-solid motion.
he is very weak can walk difficultly
walk across his cage: thinner
hair ruffled, breath very foul. (stomatitis)
mouth looks septic. given a banana
the first fruit since placed on milk.
ate it although he has ate or drunk but little
else this last 2d (or ? 3d)
no evidence of Rheumatism, temp down.

24/11/08 No change except monkey
even weaker no motions. put on fruit
25/11/08 Monkey not quite so weak
no motions mouth very foul
26/11/08 Monkey little stronger taking
food better but it is noticed that
he refuses to use his R hand.
& will not usually catch hold
of anything with his L foot.
he walks when more or less forced
on his L heel, especially holding
his big toe out.
he passed or vomited another
round worm about 6 in long
? alive. seen about 12 noon.
~~[illegible] the~~ first thing in the
morning it was noticed that
he had been sick there was a
sour smell in cage, and at 10.30 am
he was perspiring but this passed
off about 11.30 am
given between ½ & 1 ʒ of Confection of Senna

27/1/08 10am monkey is a profuse perspiration, skin quite wet temp found to be 98·9. Monkey is stronger but there is still disinclination to use his Rt hand & L foot, noticed by self, Mac Intosh, Colitis.
The L foot ~~(ankle) seen~~ near ankle seemed to be holler than Rt foot 2 Drs seen by Dr Warner who said no definite evidence of Rheumatism lungs normal heart normal except 1st sound somewhat weaker than before, no tenderness behind ears no discharge eyes normal. but Warner says Paresis of Rt hand, ie it is weak & suggests Meningitis
personal observation of self & Mac Intosh suggest that apparent paresis is due to disinclination to use it on acc of pain. or he does use it sometimes some days as if pain less beside it is Rt hand or L foot; there is

no swelling of any of the joints
but he is apt to hold left leg
when L foot is too moved by hand
as if there was some pain
has had several (? two) normal
motions during day
28/11/08 10 Am Monkey perspiration
but not so marked as yesterday
temp 99
taking food fairly well & much
stronger. now using his R hand
& L foot quite normally
Motions normal, no change in chest
breath not so foul, mouth clean
30/11/08 (Monday) Monkey seems quite
strong now! no evidence of Rheumatism
takes food fairly well, motions
normal
Note! It has been noticed to-day for the
first time although he probably had it
before that in the pouch between
the lower lip & teeth, there is

extensive gangrenous stomatitis involving the whole of that pouch in front, it is full of foul mucous & discharge. ~~of the~~ two middle teeth are very loose. 10 a 3 Pm it was well swabbed out with H_2O_2 (10 vol) & most of the mucous & discharge removed. on letting down to the tissues it appeared that the mucous membrane & superficial tissues have been destroyed over a considerable area in this front pouch. but after swabbing out well the tissue exposed looked fairly healthy.

At 5 Pm. ulcers again well swabbed out with H_2O_2 (10 vol) it now appears cleaner: the was given most of a 5 gr tablet of Pot Chlor. to drink - water. (about ½ gr) temp up to 100.4 but monkey appears fairly well.

1/12/08 Stomatitis ulcer cleaner & better.
two teeth still quite loose
he has also some smaller superficial
ulcers in upper jaw round teeth
& lips: 11 Am. well washed out
with (H_2O_2) + (warm H_2O).
Seen by Dr. Warner 2 P.M. he notes
Parys.! of R hand practically gone
suggests that lesion in L hemisphere of
brain. was only temporary ie like Choreic
but notes drooping of R thumb with
a tendency to place R hand horizontally
on chest while using L hand, but
also notes that he can use R hand.
~~Heart~~ unchanged except 1st sound
~~still~~ somewhat & weaker still.
2 P.M. ulcer washed with H_2O_2 + H_2O
2/12/08 2:30 P.M. ulcer better; washed with
H_2O_2 diluted with equal pts of H_2O
3/12/08 5 P.M. ulcer washed with H_2O_2 + H_2O
one front tooth came out & the one very
loose - pulled out,

4/12/08 10·30 am. Temp 102·2, sweating
some sneezing occasional cough.
2 Pm. Dr Warner notes that L.
hand now shows sign of weakness, making
difference between two hands less marked
etc.
temp 102·5. Mouth washed out
4 Pm temp 103·3 and a
5 Pm temp 103·6 lungs normal
heart ~~sounds~~ hurried & irregular.
no murmurs. no evidence of joint lesions.
no evidence of abscess. sneezing frequent
5/12/08 Temp down to normal. no
evidence of cold or rheumatic
joints. mouth washed out with $H_2O_2 + H_2O$
7/12/08 (Monday) Mouth washed out
temp went up to 104. heart quick
& irreg lungs sounds normal.
no change.
8/12/08 11 am temp down to 97·5
~~motions~~ stools inclined to be
loose ~~are~~ examined microscopically

Thurs	3/12/08	10·30 am	ex	96·8
"	"	5·30 P.m	"	97
Friday	4/12/08	10·30 am	"	102·6
"	"	2 P.m.	" (rect	102 102·5
"	"	4 P.m.	"	103·3
"	"	5·30 P.m.	"	103·6
Saturday	5/12/08	10·30 am	"	98·5
"	"	4 P.m	"	98·4
Monday	7/12/08	11 am	"	99·0
"	"	3 P.m.	"	102·4
"	"	5 P.m.	"	104·0
"	"	5·30 P.m	"	103·9
Tuesday	8/12/08	11 am	"	97·5
"	"	2 P.m.	"	99
"	"	4 P.m.	"	101
"	"	5 P.m.	"	102·2
Wed	9/12/08	11 am	"	98·4
"	"	2 P.m		98·3
"	"	5 P.m	"	98·4
Thurs	10/12/08	11 am	"	98·3
"	"	2 P.m.	"	98·3
"	"	5 P.m	"	101·0
"	"	6 P.m.	"	101·0

rectum

Friday	11/12/08	11 am	"	99
"	"	3 P.m.	"	100
"	"	5 P.m	"	100·8
Saturday	12/12/08	10·15 am	"	98·5
"	"	12. noon.	"	97·8.
Monday	14/12/08	11 am	"	97·6
"	"	2·30 P.m.	"	98·6
"	"	4·0 P.m	"	98·6
"	"	5·0 P.m	"	99·5.
Tuesday	15/12/08	11 am	"	97·8
"	"	2 P.m.	"	98·2
"	"	4 P.m.	"	99·8
"	"	5·30 P.m.	"	101·4
Wednesday	16/12/08	11 am	"	99·8
"	"	2 P.m	"	100·5
"	"	5 P.m	"	request urinals 99·9
Thursday	17/12/08	11 am	"	98·3
"	"	3·30 P.m.	"	98·4
Friday	18/12/08	11 am	"	98·4
"	"	2 P.m.	"	99·6
"	"	3 P.m	"	100·2
"	"	5 P.m	"	102·1

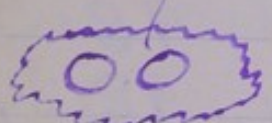
no sign of any ova of worms.

9/12/08 Stools normal, mouth washed once daily with $H_2O_2 + H_2O$

11/12/08 5 P.m. films of blood taken from finger. stained fixings ¼ hour. Leucocytes appear to be considerably increased a large number of P.M.N. present but lymphocytes large % increased to a realis extent, no sign of any parasites or Spirochaetes, a lax number of platelets present

15/12/08 Mouth not washed out 12th. 13th. or 14th. but washed out today, a sequestrum of bone has appeared over site of two missing teeth. it is loose

16/12/08 2. P.m. Sequestrum of bone came away easily ~~with~~ on lifting with finger



about 1 in long upper surface showed holes of ~~two~~ two teeth fangs which just pierced to other side, sequestrum about ⅛ thick in middle, after removal, mouth washed with $H_2O_2 + H_2O$, showing quite clear surface

18/12/08 Mouth not washed out since
15/12/08 Will not be washed out again
surface from which sequestrum removed
quite healthy and all practically healed
not visible discharge
Chest quite normal, stool normal.
not paralysis, chorea, or joints, or Cold
3 P.m. blood films made from finger.
stained ~~Fuchsin~~ dimethylthionin Eosin showed same as on
11/12/08, – a large number of blood
platelets were present
5 P.m. more blood films taken.
with same result, stained also
with B Fuchsin Trypanosot double stain
& faint Violet Trypanosot double stain
nothing else seen
Note some films which were made
on 17/12/08 showed some ? organisms
of slightly curved pointed ends, vacuolated
? nature ? from old dimethylthion Eos:
stain these were not seen in the
films stained on 18/12/08 with fresh stain.

Saturday	19/12/08	11 am	ax	98·0
"	"	2 P.m.	"	97·4
"	"	3·30 P.m	"	98·5
Monday	21/12/08	11 am	"	99·5
"	"	2 P.m.	"	102·0
"	"	5 P.m.	"	104·8
Tuesday	22/12/08	11 am	"	98·2
"	"	2 P.m.	"	97·8
"	"	5·30 P.m.	"	100·2
Wednesday	23/12/08	10·30 am	"	98·2
"	"	2·30 P.m	"	98·0
"	"	5·30 P.m	"	98·5
Thursday	24/12/08	10·30 am	"	97·8
"	"	2·0 P.m	"	97·7
"	"	5·0 P.m	"	96·7
Monday	28/12/08	11 am	"	96·2
Tuesday	29/12/08	11 am	"	96·0
"	"	5 P.m.	"	95·2
Wednesday	30/12/08	5 P.m.	"	95
Thursday	31/12/08	5 P.m.	"	97·4
Saturday	2/1/09	4 P.m.	"	98·4

Monday	4/1/09	10.30 am	ax	99.2.
"	"	12 noon	"	98.5
"	"	2 P.m	"	99.
"	"	5.30 P.m	"	98.8
Tuesday	5/1/09	12.30 P.m.	"	98.9
"	"	4.30 P.m.	"	98.4
Wednesday	6/1/09	12.0 noon	"	99.4.
"	"	5.0 P.m	"	99.0
Thurs	7/1/09	12.0 noon	"	99.0
"	"	5.0 P.m.	"	99.5
Saturday	9/1/09	4.0 P.m.	"	? 99.
Monday	11/1/09	2.0 P.m.	"	100.4.
"	"	5.0 P.m.	"	99.8
Tuesday	12/1/09	12.0 noon	"	98.4
"	"	2.0 P.m	"	98.5
"	"	5.0 P.m.	"	99.8
Wednesday	13/1/09	12.0 noon	"	98.5
"	"	5.0 P.m	"	99.0
Thursday	14/1/09	11.0 am	"	98.8
"	"	5.0 P.m	"	99.0
Friday	15/1/09	11.0 am	"	99.5
"	"	5.0 P.m.	"	100.0

21/12/08 2 Pm. temp up to 102
mouth ulcer seems quite healed up
no cause for temp can be found.
@ 2·30 Pm. 5CC of blood was
withdrawn by sterile syringe from
vein in anticubital space of L arm
(? median basilic) 2CC of the blood
was distributed into the following
media etc 1 ord broth tube
1 fluid broth tube 1 glucose broth.
1 Wright's tube of ·85% Saline 1% Citrate Soda
in ~~Aqua~~ redist sterile water
1 tube containing ·85% Saline + Redist sterile water
1 tube containing ·85% Saline 1% Sod cit 10% formol
in redist sterile water.
4 blood films were made + the
rest in 3CC were inoc into a ♀
Macaque monkey
[An attempt was made to inoculate
intravenously into veins in anticubital
space of R arm, two attempts were made
the first in median of basilic vein all went

sub-cutaneously the 2nd (about 1½ cc)
over upper vein
some probably went into vein but
some also went sub-cutaneously
Monkeys temp (axil.) was 100·8
the monkey has been kept for about
a week in cage & appears quite
normal healthy in every way
This is exp 13(a)

22/12/08 11 am Ord Broth shows growth
in the upper part of fluid. ~~[illegible]~~
mostly. growth in clot at bottom of
tube the growth was different to that in
colonies. there was no growth in any
the other tubes. the growth in ord broth
was a coccus. somewhat lanceolate.
mostly in pairs. ~~[illegible]~~
Temp of monkey is near down today
it only being 100·2 at 5·30 pm.

24/12/08 Monkey now seems quite well
in every way no temp or Diarrhoea.

29/12/08 Monkey continues well he seems cold
during very cold weather. from picking he is

given some boiled potatoes once daily.

2/1/09 Monty continues quite well he eats well & is getting quite corpulent again

4/1/09 Monty not quite so well, somewhat disinclined to come out from cover temp. only 99·2

5/1/09 An ascaris lumbricoides (the 3rd one pd) was found dead in Chimp's cage lying bitten in several pieces. Monty still not quite so well 2·30 P.M. given 1 gr of Santonin (a full grain) 3 P.M. given his potatoes & milk 3·30 P.M. given a small teaspoonful of Confection of senna.

6/1/09 Monty's condition a little better but does not seem quite fit. No evidence of diarrhoea, no evidence of worms passed, cage done out with lysol containing Carbolic acid & he cloth steeped. He is getting very corpulent ~~so potato~~ pulp & only so potatoes given for last time today temp only 99·4 at 12 noon he eats fairly well but is not very lively.

(the 4th one)

9/1/09 Another lumbricoids worm found dead in Chimps' cage.. Chimps' condition about the same

13/1/09 Chimps given 1 gr of Santonin in a Banana, two hours later a teaspoonful of Confect of senna was given mixed in water

14/1/09 No worms passed. Chimps' condition about the same, slight temp, not very lively disinclination to run about, inclined to keep under his cloth, eats well.

16/1/09 No worms passed, no change in condition

1/2/09 No change in condition keeps fairly well but in this especially about limbs & not very lively. he grinds his teeth. too continually doing so.

He passed a piece of a worm? lumbricoids? Tape worm

2/2/09 11am another piece found called tape worm see

Monday give 2 gr of Santonin 2.Pm given

May Sulph gr V May Carb gr III. 5.Pm given food

-/3/09 given four doses of Filix Mas & Castor oil on four consecutive days. no tapeworm passed

Later 5/4/09 Chimps has had some return

Saturday	16/1/09	11 am	ax	99·0
"	"	4 P.m.	"	99·8
Monday	18/1/09	11 am	"	99
"	"	5 P.m.	"	100·4
Tuesday	19/1/09	11 am	"	99·2
"	"	5 P.m.	"	99·6
Wednesday	20/1/09	11 am	"	99·0
"	"	5 P.m.	"	99·4
Thursday	21/1/09	11 am	"	98·2
"	"	5 P.m.	"	98·8
Friday	22/1/09	11 am	"	99·0
"	"	5 P.m.	"	98·6
Saturday	23/1/09	11 am	"	99·5
"	"	3·30 P.m.	"	99·8
Monday	25/1/09	11·0 am	"	98·8
"	"	5 P.m.	"	98·8
Tuesday	26/1/09	11·0 am	"	98·2
"	"	5 P.m.	"	98·6
Wednesday	27/1/09	5 P.m.		98·2
Thursday	28/1/09	5 P.m.		97·0
Friday	29/1/09	5 P.m.		99·2
Sat	30/1/09	3 P.m.		99·5

Monday	1/2/09	5 P.M.	98·8
Tuesday	2/2/09	5 P.M.	98·5
Wednesday	3/2/09	5 P.M.	99·5
Thursday	4/2/09	11 am	98·8
"	"	5 P.M.	99·2
Friday	5/2/09	5 P.M.	97·8
Saturday	6/2/09	3 30 P.M.	98
Monday	8/2/09	5 P.M.	98
Tuesday	9/2/09	5 P.M.	99·7
Wednesday	10/2/09	5 P.M.	99·8
Thursday	11/2/09	5 P.M.	100
Friday	12/2/09	5 P.M.	98·6
Monday	15/2/09	5 P.M.	99·8
Thursday	18/2/09	5 P.M.	

of diarrhoea and passed a single segment of tape worm so given Papain .3 gramme three times a day for four days prior to food today 9/4/09 & finished up with a dose of Felix mas & Castor oil ~~Twenty hrs~~ 9/4/09 temp somewhat up to 101.4

12/4/09 am .6 gram papain given - free of Bowels

13/4/09 am .6 " " " " " "

14/4/09 . " . " " . . . Every of Castor oil worm pass.

15/4/09 . " . " " " ..

Monty's breath is a little ~~foul~~ unpleasant and he has a very large L tonsil, but there is no evidence of membrane. he seems quite not very well

16/4/09 Tonsil much worse touching opposite side so opened through soft palate, foul pus containing large number of various microorganisms

17–21/4/09 given .6 gramme papain every morning except Sundays. on 21/4/09 hour after papain i.e. 11.30 am given a full teaspoonful of castor oil contg 30 mm of Felix Mas passed a segment of tapeworm

20/4/09 Found some tiny worms ranging between about $\frac{3}{4}$ Centimetre long 4 or 5 seen in faeces

21/4/09 more of tiny worms seen

Exp 14.

To stain for spirochaetes in Rheumatic tissue.

~~1/12/08~~ Pat

Heart showed some apparently fresh vegetations on valve
it had been in H_2O since January
so was washed in redist water for several hours then placed in 10% formalin
in a piece of heart (L vent) & piece of valve
next day i.e. 1/12/08 piece of heart muscle was placed in dist H_2O for 1 hr then in 2% $AgNO_3$ for 1 hr then in special apparatus with 2% $AgNO_3$ flowing through for 1 hr
flat surface being placed ¼ from 1 pole (anode pole) & connected up with main current which had passed through two 8 vols lamps
tissue then removed washed for ¼ hr in

redist H_2O then placed in Lenhart's
Picropalline and sol over night then cut
in paraffin in usual way.
No spirochaetes found

Exp 15

Control to exp 14, some syphilitic liver tumor to contain a large number of spirochaetes was treated exactly same way, some spirochaetes were found directly stained in area in which current had passed through not many were seen

Exp 16

Some heart muscle same case as used in exp 14 was treated same way except that 1% $AgNO_3$ + 10% Pyridine + Pyrogallic + Pyridine + Acetone were used in place of plain $AgNO_3$ & Pyrogallic Acid.

Sections cut as before, No Spirochaetes.

Exp 17

Some of heart valve same case as exp 14 treatin exactly same as exp 16

sections cut no spirochaetes found

Exp 18

To Mr spirochaeta in Rheumatic fever

Pat Chas Body

~~died 10 am~~

died 10 am

Pm 2 Pm.

Heart showed some apparently recent vegetations on tricuspid valve

some of Rt ventricle heart muscle & tricuspid valve also liver, spleen taken ~~tfd~~ some fresh placed in 10% formal

some in 80% ~~Spirit~~ absolute alcohol

~~tfor~~ this exp some fresh heart muscle

this was placed in apparatus exactly as in exp 14 as not previously placed in agno for 1 hr but placed directly into apparatus

sections cut as before

No spirochaetes seen

Exp 19

To stain spirochaetes in Rheumatic tissue.

Heart valve from same Pat as exp 18

treated exactly as exp 14 (Chas Body)

sections cut

no spirochaetes found

Exp 20

To stain spirochaetes in Rheumatic tissue

Heart valve from same patient as exp 18 (Chorea) treated as exp 14 with than exceptions, ~~tissue~~ dimethylthionin-chloride and instead of Agno3 & Pyrogallic acid tissue placed primarily in stain for 24 hrs instead of 48 hrs. (@ 37° C) stain not run through apparatus, tissue placed in pot giving run to blue bubbles not red.

after removal from apparatus, tissue rinsed and dehydrated in xylol & abs alcohol equal pts containing a little tannic glycerine then in xylol clé

sections cut

no spirochaetes found.

Exp 21.

To stain spirochaetes in Rheumatic fever Heart valve, same case as exp 18 after washing formalin out for 1 hr with redist water placed in $AgNO_3$ 2% in redist H_2O @ 37° C. 18/12/08

11

Exp 22

To stain spirochaetes in Rheumatic tissue, this same case as exp 18 but exp 21 placed in 2% agno3 @ 37°C 18/12/08

Charcot

22/1/09 tissue looked quite black. Silver sol was worthless.

Exp 23

To skin spirochaetes in Rheumatism
trying, Heart muscle, same case
as exp 18 Chandler like exp 21 placed in agno 3
2% 18/12/08

Exp 24

To start sparochaetia in Rheumatic ~~Chas Bad~~ tissue, spleen same case as exp 18 like exp 21 placed in agar 2% 18/12/08

Exp 13(a)

21/12/08 3cc of blood from vein of ♂ Chimpanzee exp 13 was inoculated into ♀ Macaque

An attempt was made to inoculate intravenously into veins in anticubital space of R arm, two attempts were made, the first over outer vein all went sub-cutaneously; the 2nd (about 1½cc) over inner vein, some probably went into vein but some also went subcutaneously

Monkeys rect temp was 100·8

The monkey had been kept for about a week in cage and appeared quite normal & healthy in every way.

Exp 25.

To test various blood films as in exp Series 6 to see if same results are obtained

31/5/10 Blood films of following animals were made

Human, Rabbit, guinea pig
goat, mouse, hen.

All placed in corked vials in 4% Formalin in Redist H_2O & changed after haemoglobin diffused out

4/6/10 or 6/6/10 Fresh 4% formalin placed in dishes.

Exp 26

To test various bloods as exp series 8 to test if same results obtained.

31/5/10 Several drops of blood from following animals taken aseptically Human, Rabbit, Guinea pig, Goat, Mouse, Hen. Blood place into test tubes containing sterile sol made of with redist H_2O. solution = ·8% Sod Chloride 1% Sod Citrate placed in incubator @ 37° C

3/6/10 upper part of sediment of blood of each tube pipetted off placed in a tube of ·8% Sod Chloride in redist H_2O placed in incubator @ 37° C

6/6/10 Fluid pipetted off tubes and sterile sol: ·8% Sod Chloride + 4% Formalin redist H_2O poured in tubes & placed back in incubator @ 37° C.

Rheumatic Exp 27

George Fraser aet 39 Exotic Mitral Valve with small vegetations also piece of myocardium & pericardium obtained from Turnbull hosp 23/12/14 his P.M. No 767/1914.

Tissue arrived at lab within three hours without any special aseptic precautions, piece of tissue cut off and value rubbed over oxd agar tubes I and II and pericardium with muscle over agar tubes III and IV all capped @ 37°C 23/12/14

28/12/14 All tubes shows whitish opaque growth with transparent areas so tube II white & transparent plated on six fresh agar tubes and capped @ 37°C.

29/12/14 Tubes plates show spreading growth of white cols of some particles are turning transparent so col picked off white = (Col 1), white turning transp = (Col 2) (this probably host tissue) uncapped

Tube III transparent area adjoining spreading growth (both) mixed and streaked down oxd agar tube V and this capped.

1/1/15 all discarded except tube V and Col 1 pure starting to turn transparent & Col 2 (mixed).

1/1/15 Col 1 (29/12/14) Felix showed very short bacilli but several granular long forms found so could only a definite bacillus like Col 3 of Felix Exp 74.

4/1/15 Col 1 white small area of transparent mucus r-c on to fresh tube of sod agar, capped.

Tube V ~~fresh~~ wavy delicate growth probably turning transparent r-c on to tube VI, capped.

5/1/15 Col 1 of 4/1/15 shows dense white growth turning ~~transparent~~ translucent along margins.

Tube V wavy growth turning translucent plated out on four agar tubes, uncapped.

Col 1 4/1/15 translucent margin r-c on to tube VII and capped

6/1/15 Tube VII speckled granular, white & semi-translucent growth, no definite transparency or eating away.

Col 1, 4/1/15, translucent edge r-c on tube VIII uncapped.

14/1/15 All discarded except tubes VI VII VIII

27/1/15 Tube VII r-c on tube IX capped

Tube VI r-c on tube X capped

28/1/15 Tube IX growth apparent normal

Tube X covered wavy spreading growth.

2/3/15 Tubes VI VII and VIII discarded

Tube IX 2-cor old agar tube XI capped
" X " " " " XII "
Note Tube IX shows streak growth with more translucent margins
Tube X shows fibres covering tube most of which has turned semi-translucent starting from centre & below and having extreme margins especially above, dense.
Tubes IX and X now left uncapped.
1/4/15 Tube XI (after) growth looks as if turning translucent or transparent 30 2-c on old agar tube XIII capped
10/3/17 Tubes IX & X dried discarded