

British Medical Association Sixty-eighth Annual Meeting, Section of Tropical Medicine: notes

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89186



ACCESSION NUMBER

89186

PRESS MARK

1493

...
... to ...
Dr. Andrew Duncan
"Filaria" *
... Col. ...
... of the Filaria *

in Mosquitoes

Captain James

"The Hot Weather Diseases of India"

Draper Books

Blackman's

Diseases of India

1
X2
3
4
5
6

89186

1 President's Address

x2 "Quinine as a Prophylactic to Malaria"

Dr. Andrew Duncan

"The Etiology of Filariasis" *

Lieut. Col. Mansland

4 "The Metamorphosis of the Filaria
in Mosquitoes"

Captain James

5 "The Hot Weather Diarrhoea of India"

Dr. J. B. B. B.

6 "Blackwater Fever"

7 "Dysentery of India"

You are requested to embody the substance of your remarks on this sheet for publication in the JOURNAL, and then return it to the Secretary of the Section.

Discussion on Dr.....'s Paper or Discussion.

Date.....

Section of.....

Mr. or Dr.....No.

"
Malariae

Papers by Captain James T. M.S.

but let: Dr. Maudslayi.

Discussion by Dr. Thomson

Major Robert Ross -

Dr. Ross.

"
The West Indian Mosquitoes of India

Muzin files Paper.

42° 47°

Amkly - Beri beri. Kala-azar.

Duo.

demerphosin.

Lourens

Dobson - thinks it did food ^{insignificant} 100.0 or more present without causing illness

Chymol. produced as many at least doses as of the first imported labour

Capt Ferriside

678 males 300 convicts

462. ~~is~~ parasite

What are the boundaries of land.

Prof. Leonard Rogers

colour index

colour is an important

~~factor~~

factor in Ankylostomiasis

discussion St. Col. Baker. Burma. Ceylon.

Amkly.

Beri-beri mdd in death & worms have not

warning of approaching death they

unlike ^{Chymol} death in Ankylostom

~~Major~~ Major Ross approves of file works

D. Manson

in West Indies found ^{only} lately
means to support.

drumie report soil cement line
stone months fermented
manipulation of
report soil no over.

McBaultie vs. Walker in Barnes.

President no remarks.

abscess of liver

Cut. Mackeod

Management of Lung disease.

159. from 59. ∴ opens through rupture.
16% per cent when up.

no report to allow liver abscess to reach
that stage. must explore
translucent.

Tagore. w. Mackeod about seat of operation in
series



~~Handwritten scribbled text, possibly a name or title, crossed out with a horizontal line.~~

Hehalee
Hehatee



no one trying to rupture hepatic abscess when ruptured upwards.

30 } 2 cases of
} liver abscess
} calcification

10th
18th

empyema thoracis like liver abscess
has microscopically.

Mr. Bantle

Mr. Johnson Smith.

Surgical Treatment of
Liver Abscess

Liver Abscess & Rontgen rays.

R $\frac{1}{2}$ of diaphragm does not move

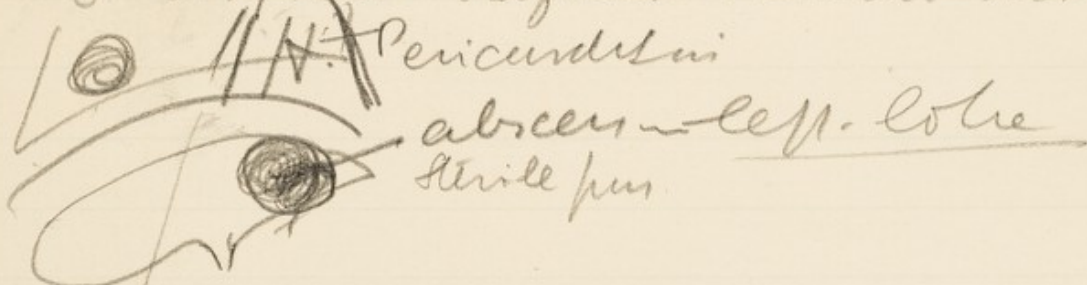
Dr. Bassett-Smith hepatic abscess.

man not abroad for 27 years. Mediterranean
came after dysentery, to anaemia. dysentery

1. Kartulis, cutaneous eruption of capillary
scarceness of

2. Kuss. o. Vancalle.

3. Council. Dazlew diameter uterine



~~Impression~~

Discussion:-

Dr. Manson the approach of finding
of pus by exploration.

Blood & pus resembles ~~sterile~~ pus.

pus resembles ~~that~~ not found
but copied up afterwards.

London Surg. too heroic. not to be
treated as an empyema & removal
of it not necessary. good results
by trocar cannula, pleural
sac not involved.

Plenty drainage through drainage
Amoeba coli best way to discover
lung abscess through lung.
not so. it is not there before never
found it.

Leucocytosis in lung abscess, malarial
or not. evidence of inflammation
Fatal hemorrhage in Bombay
not experienced elsewhere

Barnett-Smith paper not complete
because not examine pus in lung
abscess for amoeba coli cannot
say if direct ~~connection~~ connected
with

Ross
Leucocytosis in hepatic abscess.
in a case of abscess in Liverpool
not malarial.

Cutler

Mason agreed with Dr. Morrison
old recurrence in case was operated
on by laparotomy & failed to find
pus. after a few days pus came
through the ~~the~~ bowell & died.
Cantlie's diagram. Liver alters
circumference

This is correct fluctuation in case of
liver abscess. widened spaces.
cough gently, & fluctuation can
be felt.

Agrees with nonsense of rib removal
biliary calculi in pm removed as
intercostal space too small
never saw necessity for rib being
removed surfaces.

When ^{being} attacked then it is necessary
to remove a rib.

Cyprus. Shulangi.

Manson remark. analogy pleura
trauma. Cantlie

Ross's paper on

~~_____~~ Mulluck spoke ~~topic~~ of necessity
of greater enthusiasm
in research by school teachers

Murdoch. Teaching Research different
things associated in same thing. V. Carter
D. Cunningham contribute teaching, research

Hutchinson on Yaws
is it syphilis

apricu. contracted Yaws. marks
on wrist, scar + seen on W. Coast
by men who knew Yaws. ~~heaps~~
Liverpool man saw him believe it
now has marks on hands
over wrist. legs. Urinary tracts.
has malaria.

hulm of hand looked like characteristic Yaws
has syphilitic eruption.
mushroom growth at original sore
truder
Klebsiella + pulvina pruviasis
mixed when seen first.

2nd case

Suspension bridged finger which
scraping a jaw. in scabbed
finger. head

1. Patient covered when seen finger
healing by cheap treatment.
wants to know if this is now
an ordinary case of syphilis

Syphilitic infection not confessed
or believed.

throat never sore in jaws
in syph. when skin had. mucous
membrs. throat is not so marked

Jaws: - is rotting, but the patient
syph. he imported from African
Coast (not America). also from
West Indies. history of development
too rapid after Columbus discovery.
Lateral extensive impaction of parotid
no true warts as yet quite.
2 cases before. Not one of the earliest
cases ever seen in Europe.

no record beyond

Jaws some writers says no tertiary
symptoms. Kippsey photo shows
secondary.

In Fiji (Daniels) no syph. have
Jaws early. ^{at the incisors} (intercourse free with sailors)

Since saw where Jaws become true
lymph. identical in Fiji to elsewhere.
~~to Daniels~~ Frankenia.

~~to Daniels~~ words

are there tertiary symptoms here when
Jaws are only (Fiji). ~~Describe~~ The tradition
is that in Fiji they are liable to bone
disease, that is no doubt syph.
Lupoid ^(at tubercular) disease common. ^{mouth like syph.}

serpiginous form of syph.

∴ in Fiji tertiary sympt. of Jaws
phagedenic = creeping ulceration of genitals.
common in men & women in Fiji
not syph. in result of Jaws. thinks
Daniels. Hutchinson thinks they
are & ∴ a 4th tertiary symptom
In Fiji syph cannot take place

~~and~~ no sailors come home with
typh. nor with Jaws. This applies
to all cases where Jaws exist.

The substitution of one disease
for the other. There were reports
abundance of Jaws & also typh.
not a few & vice versa.

This is in all probability one disease.

Kynsey has given other facts. In the
towns typh & in the country Jaws.

This is probably the same - the
differences Hutch. thinks a difference
in degree

as measles & German measles parallel
if distinct.

Shows back (photo) of Negro. with Jaws
& typh. no difference.

Hutchinson. does not believe in
multiple varieties of typh. &

holds that Jaws & typh. are one.

But if they are separate specific
disease running parallel course.

If so, we might have them

undoubtedly. if separate wery as London
nor yet Jews but syph.

Could understand men living
in the towns still believe them
A. Powell describes an India of
a little outbreak occurring
in a community had syph.

Sibbers in Scotland & epidemics
in Ireland frambesia likely Jews.
in Cornwall's army, Scotland

frambesia appeared
epidemics in England cured not
be due to a specific that died
out.

Dublin had a number of cases.

6 cases
the
Hutch. says via case he called
morula. occurred among men

& 1. women. a frambesial eruption
curable by mercury. Hutch.
thinks no careful examination

a London man told a venereal
he had not syph. but frambesia

Hutchinson may cured him with Hg.

I am no hereditary

a. Powell says so

some says not in infancy.

Kutsh. says photo from mother
had jaws & infant at 6 or 8
months had jaws.

2. Case by Powell mentioned
Case in which the hand is
lopped soon after birth.

from protrusion of both hands.

Review in Poly clinic by Kutsh. of slides
cut work

Wrecked says discuss first.

1. the case.

2. Paper.

Dr. Davies (Samoa) 30 years there.

was in Fiji & Samoa. Himself &

his colleagues never saw syph. but

they have jaws in children.

They think it healthy & unless they

have jaws would not live.

Carlton came for children.
Yaws not in Ellis from + Kuis for
until Samson went there
Davis will have nothing else
but Calumet. Gades at intervals
take you away. They a Brown
Dark race in Polynesian.

Fijian colonies in Samson with
Course: brought from Fiji
Dr. Manson,

of Smith Hutch. views open to
discussion. His case of Yaws he
shows depends much in testimony
of others. He cannot be sure
of diagnosis of others a history.

He refers to a case of Yaws
Manson said he did not believe
he has wounded himself whilst
operating on a syph case.

of several friends Manson
thinks Hutch. theory. Hutch thinks
it must be syph because it
resembles. He then he says

Tubercle leprosy. - Fava. leprosy
~~is~~ are syph.

It is strange if I can be a element
in variety of syph. thus
inoculat. by I can well
not prevent syph. Cases have
had I can. other syph. or syph
than I can. ∴ not protective
Hutch. says I can not get by
scars. Mumm says if
I can & syph same then are
not to get transition stages
the demarcation is too abrupt.
He asks Hutch. where would
be placed *Veruica* here
if the same.

Ceylon disease called Parangi
were various syph. Flemberrin
Ephemeral I can change are I can.
syph. - syph.

The Louis mixed infection.
I can not here because at
high atmosph temperature. It can

Now skin but no more.

Some say worms will not live
in this country.

Town cases. Country cases. Local
condition may explain. Immoral in
town. Virtue in country.

Mr. Rees in Africa in ^{case} Court book.

Saw Syph + yaw. in United States

Saw nothing but Yaws.

After time intercourse with

Court Drened + Syph came

in + that we called it a new

disease. always in children.

Readers think case was

~~fast~~ Syphilitic. ~~fast~~ may

have been ~~the~~ unanimous.

Open by vote.

Primary sore single. ~~and~~ ~~vaccin~~

tertiary infection in Fiji - redness

in ulceration. (Daniels) also in B. (Guinea)

nucleus described in India - as

malignant. not cure by Hg. must

be cut out + still the ~~same~~ patient

Primary sore
not found
in ~~vaccin~~

by exhaustion - extent

How's different in suph. of jaws, baillies

Mr. Kutch. Reply.

from photo could not tell
we from other by photo.
tertiary suph. & tertiary, suph.
of jaws the same

~~How~~

We can see by microscope & supply
of the material same believe a
rare. being erupted in foot
she has a photo. &

Jaws become suph. in temp.
He believe it is high temp. that
causes so much granuloma.
in tropics.

Jaws does occur in localities here

Mr. J. ^{Shardol.} ~~Shardol.~~ experiment.

The primary one of jaws - became jaws.
but they are suph.

when so sure the glands may be ~~to~~ their
but will find it to sore
Jaws do not protect. fr. Syph.
Patients say

^{the only case}
Shurloe. inoculated a ~~old~~ Jaws case
with Syph. of one Syph. but
^{the} 4 years had elapsed between Jaws &
Syph. ∴ a re-inoculation.

Generally believed Syph not inoculated
a second time. but it ~~do~~ may
come again in a year or two
^{the} Peruvian ^{Vedungas} not related as supposed
by Mann.

Protection strong probable
the Jaws of young protect
adults against Syph.

But Syph. has been observed
in a short time after Jaws.

(Clinically).

Hutch. thinks plenty ~~cases~~ con-
nected links between the two
Jaws. not monomorphously
polymorphous

never in adult. Dr. Davis says
many cases reported usually
in children

Crusts on skin very difficult
to diagnose. thumb pricked is needed
pure syph. + no, a bit little local sore
a syphilis for cutting hand seldom
has a local sore

✓ Iowa County (Kingsley)

Law by skin in non-venereal
ways: accidental contact &
not sexual as in syph.

Dr. Mollath paper ~~not~~ ^{read}

Dr. Phinias Cleverham ^{stated} cause of leprosy
& lichen Scrofulosorum

Leach 70-9.

British Medical Association
Section - Tropical Diseases.
President, Colonel Kenneth
Mackenzie ~~Colt~~ M.D., D.D.
Professor of ~~Medicine~~ Medicine
Army Medical School, Netley,
in the Chair.

Presidential address.

See British Medical
Journal sent

Quinine & its action & value

A. "The Action & Modes of Employment of Quinine in Malaria?" Dr. Andrew Duncan (Major, Ret. I.M.S.) read a paper upon this subject and opened a discussion upon the use of Quinine as a prophylactic & as a curative agent. In the hands of French Physicians Quinine is found to be of some prophylactic value in the milder forms of malarial fever, but in heavier & varieties it is well nigh useless. The general conclusions arrived at by Russian & Austrian Military Surgeons are that quinine has but little if any value as a prophylactic. In America Dr. Bryan states that ~~quinine~~ cinchona preparations have a markedly prophylactic action. Melate Surgeon Major Parke of the Stanley expedition in South

Barrett
56

of Livingstone, gave the officers 4
grains of quinine daily, before entering
the mouth of the Congo (two days).

During ~~the~~ a ~~former~~ a subsequent
journey of 350 miles through ^{one of}
the most unhealthy regions of the
world ~~and~~ ^{only} 2 officers contracted fever.

Dr. Duncan's own experiences in
India afford support to the
belief that the quinine
is a preventive to malaria; in 1896
of 50 men of the 2nd Gorkha Rifles who took
3 grains quinine daily, none had
fever, whereas amongst the men
who took no drugs 6.5 per cent had
malaria; in 1897 the same exper-
iment was tried again when the
results were no malaria ~~amongst~~
amongst the quinine takers 5.8
per cent amongst the non-quinine
takers. During the Malay war
the prophylactic benefits of
quinine were not marked. 6

West African experiences are varied. Harney found that the sailors who took quinine had as much fever as the men who did not take it. During the Ashanti wars of 1893 + 1896 quinine as a prophylactic proved of no benefit. An enquiry in connection with this subject was promoted by Mr. Chamberlain & Dr. Manson in West Africa. The ~~benefit~~ benefit of quinine as elicited by this enquiry seems to be pronounced for it is 87.7 per cent of those who used it as prophylactic it was efficacious.

Dr. Duncan then ~~was~~ reviewed the action of several reputed anti-malarial drugs. Arsenic as a prophylactic affords conflicting evidence. In Italy it has been moderately successful in India it has proved very disappointing. The most eminently successful experi

ment seems to have been made by
Dr. Ralph Leslie in the Congo Free State
where ~~atrocities~~ was administered
during 15 days, every six weeks &
every one who took was rendered
immune to fever. Narcotine seems
of little value as a prophylactic.
As a cure for malarial attacks
quinine gives by far the best results
only 2.05% ^{of failures} next to quinine comes ^{as a curative} Nini
Clark in doses of one drachm three
daily. Parluvin 18%. Berberis had
50% failures. Narcotine, Kreat &
Inderyas seem to be unreliable
as either prophylactic or curative
agents.

5/13
B.

The Prophylactic Issue
of Quinine. a synopsis of an
experiment on a large scale
in Indian jails, by Major
W. S. Bradman, I.M.S.
at 6 of the large jails of India
the prophylactic issue of

8

(3)
of quinine has been tried for
five years past. In some instances,
the results have been tested
by control experiments.
at the Mysore jail the
result was "diminished fever"; at
the Rajahmundry jail, one of the
most malarial jails in India,
quinine as a prophylactic was
useful in those who had not been
previously exposed to malaria;
those who ~~had~~^{contracted} fever had it more
mildly, the duration was
shorter & the recurrence fewer,
when the drug had been taken
previously as a preventive.
at the Rayshaye jail, Lt. Col.
French reported strongly in
favor of quinine as a prophyl-
-actic during 1896 and 1897 but
he changed his opinion in consequence
of the experience gained during 1898
at the Bankura jail the prophylactic

issue of Quinine had distinctly beneficial results; at the Kazaribaga jail, Major Maynard gave it as his opinion, that Cinchonidine given in 6 grain doses daily was useful as a prophylactic and as a beneficial agent; should attacks of fever come on afterwards, Major Buchanan's experience at the Bhagalpur jail proved negative the quinine takers & those who had not taken the drug being equally affected. Major Buchanan has never seen haemoglobinuria or other evil effects from taking quinine.

C. The administration of Quinine
with special reference to the
Practice on the West Coast of Africa
was the title of a paper commu-
10 icated by Dr. Fielding Ould (W. Africa)

Dr. Ould states that since Koch's statements about quinine the Europeans in the West Coast entertain many of them a dread of ~~the~~ the drug. Quinine acts by staying the development of the malarial amoebula; it may also act by binding the oxygen to the haemoglobin more closely & thus depriving the parasite ^{the} of oxygen necessary for growth.

Quinine can be ^{the} used as a preventive it can only deal with the parasite when it ^{is} ^{in certain stages} ~~exists~~ in the blood, it cannot prevent ^{the} ~~the~~ entrance ~~into the~~ of the parasite into the blood. He quotes a experiment of Pignaniis in which blood rich in parasites but impregnated with quinine was incapable of reproducing malaria when injected into a healthy person. Of the methods of administration that by the mouth is perhaps preferable until further culture is present when it ~~should~~ ^{may} be given by the rectum or by hypodermically;

The prophylactic use of Quinine is in many instances harmful, by upsetting digestion; & it is persons who suffer from gastric catarrh or hyperaemia of the liver who are most likely to be severely attacked by malaria; in them the pernicious forms of malaria, the bilious remittent & haemoglobinuria are apt to develop.

Feb 6

Discussion on the three papers relating to Quinine.

I. D. Patrick Manson C.M.D., F.R.S. The reported prophylactic action of Quinine is but a phase of its therapeutic action; it is the application of the drug to the parasite and not an immunising of the body against the parasite, that characterises the action of Quinine. Just as some varieties of the parasite are highly amenable to the drug given therapeutically, similarly its prophylactic power will be

12 Given against Suth. D. Manson

recommended that ~~the~~ future experiments in prophylaxis be made with the aid of the microscope and in reference to the particular type of malarial parasite it is used against.

2. Lt. Col. Newson I.M.S., states that he had invariably found quinine to be a prophylactic as a therapeutic agent for the last 20 years & the results have nearly always been satisfactory. Lt. Col. Newson described the only case in which he had seen quinine cause haemoglobinuria, as that of a German Missionary, who every time he took quinine declared that haemoglobinuria supervened & when the drug was administered by Lt. Col. Newson the urinary trouble developed.

3. Mr. D. C. Rees (Lond. Sch. of Trop. Med.) gave his experience of quinine as a prophylactic in Nigeria. Mr. Rees came to the conclusion that 5 grains administered

tered daily, although it does not reduce markedly the number of attacks of fever tends to lessen the severity & also the case mortality. He advocated introducing the needle of the hypodermic syringe into the muscle, when administering Quinine ~~by this method~~ by this method; when introduced beneath the skin only - suppuration was apt to follow.

4 D.C.F. Harford-Battersby (London) believes strongly in the prophylactic value of Quinine. Although Quinine might cause haemoglobinuria he did not believe it could cause haemoglobinuria fever. D. Battersby holds that there are many minor ailments attributable to malaria ~~as such~~ such as vomiting, neuralgia &c. which Quinine will relieve.

5. Major Wilson R.A.M.S., did not find in the Ashanti expedition of 1895-6 nor on the Sierra Leone coast that Quinine had much prophylactic

value. He has used the hypodermic injection of quinine in many instances, with causing local inflammation.

6. D. B. S. Ruizer (Canton, China) described a case of quinine ~~intoxication~~ (a malarial) blindness which however disappeared by treatment with 2 franc doses of Potassium iodide.

7. Lt. Colonel B. C. Maclelland I.M.S. asked for information concerning the use of methylene blue in malarial fever. During an outbreak of malaria he gave it in alternate cases with quinine & found methylene blue gave the better results. Lt. Col. Maclelland found little danger in giving quinine in pregnancy, & he has administered it without inducing abortion at any & every stage of pregnancy.

8. Mr. James Cantu Fall (London) related a case of fever in a child of 4 months of age. The child was born in England, ~~and~~ whilst the parents

were at home on a holiday from clinic.
The fever continued for 6 weeks & it was
only when the mother, who was nursing
the child, & the child took quinine
that the fever disappeared.

61
9. Dr. Henderson (Shanghai) stated ^{that} the
benign tertian ~~form~~ was the usual
malaria parasite, ^{met with} in Shanghai practice
& that it readily yielded to quinine. He
believes quinine to be a decidedly dang-
erous drug in pregnancy & he has
seen ~~some~~ miscarriage, traceable to its
administration. With Quin or
better still with Chlorodyne some of
the dangers of quinine to pregnant women
~~is~~ is possibly minimized.

10. Major Ronald Ross (Ret. M.S.) Liverpool
drew attention to the circumstance that
in old cases of malaria there may
be a secondary form of fever, due
to enlargement of the liver & spleen,
not directly due to the presence of
parasites and amenable to quinine

16

Dr. Ross advocates the exhibition
of quinine for 3 months after infection
& believes the best form of administration
is in solution by mouth.

11. Dr. Arthur Rankin (London) described
a case of haemoglobinuria fever
developing in about 14 months
after settlement in Central Africa.
He returned to England, had a mild attack
of haemoglobinuria, & after 4 months
went back to Africa. During his second
spell of residence there extending over
2½ years he took quinine daily in
teaspoonful doses & never had a return
of malarial fever.

12. Lt. Col. Oswald Baker (Ret. I.M.S.) London
believes the reason of quinine failing
as a prophylactic is that it is
not given in sufficient doses. He
is of opinion that the prophylactic
dose should be the same as the curative
dose.

13. Colonel H. MacLeod (Ret. I.M.S.) Netley.

pointed out the importance of using
the microscope during the admini-
stration of Quinine as a guide & check.
Koch points out that ^{malignant} malarial parasites may
exist in the blood without causing pyrexia
& it is necessary to ascertain the infection
of the community, before coming to a
conclusion as regards the prophylactic
use of Quinine. Col. MacLeod referred
to the distinction to be drawn between
haemoglobinuria & haemoglobinemia
fever. The former was caused by
many drugs but the latter seemed
to be a ~~specific~~ specific disease.

④ E "Notes on Filariasis

A. "The Etiology of Filariasis" by
Lt. Col. J. Maitland, Professor of Surgery,
Madras. Lt. Col. Maitland ~~discussed~~
referred to the observations made by
Dr. G. C. Low concerning the presence of
the filarial parasite in the proboscis
of the mosquito, & the probability of

the infection of the human being by the bite of the ~~insect~~ mosquito. He regards the evidence in favour of this theory as presumptive only, & opposed to well attested evidence. He drew attention to the extraordinary immunity of Europeans to filariasis in districts where the natives were extensively infected, & regarded the fact, that Europeans boiled or filtered their drinking water, as an argument in favour of water being the medium of infection in filariasis. Lt Col. Mart. Curd considers it quite possible that the young filaria may pass from the mosquito's proboscis into water instead of directly into the blood.

40
M. J. Stone
B. On the metamorphosis of the
Filaria sanguinis hominis in
mosquitoes, especially with
reference to its metamorphosis
in the Anopheles Rossii & other
mosquitoes of the Anopheles genus.
by Captain J. P. James I. M.S.

Attention was drawn in this paper
to the difference in time required
for the metamorphosis of the filaria in
mosquitoes observed by Bancroft &
Manson, & it would appear that
the period of such metamorphosis is not
yet determined definitely. In Bancroft's
experiments and in those ~~with the view of, experiments~~ undertaken
by Capt. James, the female culex was
the insect employed. They were bred
from larvae placed in the mosquito
cisterns in a filarated manner
when caught transferred to bottles
in which ripe leucinas were being.
Against the water-borne theory of
infection Capt. James advances the
argument that the ~~water~~ filaria
die in 2 1/2 hours in pure water; & therefore
too short a time of existence is allowed
because the continuance of the ~~life~~
species; Capt. James favours the idea
that the filaria is carried to the human
being by ~~either~~ the luteo either the
anopheles or culex

Discussion

1. Dr. Manson wished to make it known that the discoveries of S. Dow & Capt. James were made independently of each other, & that both observers are entitled to have their names associated with the ~~discovery~~ ^{the} establishment of the fact that the filarial worm can find exit by way of the proboscis of the mosquito. He regards the relative immunity of Europeans to filarial infection as due to the use of mosquito nets & their better sanitary surroundings compared with poor natives. The process of rendering a human being richly infected by filaria ~~is~~ probably involved a considerable time; the individual required possibly to be bitten many ~~hundreds~~ ^{scores} of times by filarial infected mosquitoes before the embryos appeared in sufficient numbers to cause pathologically lesions of any ^{clinical importance} ~~importance~~.

* * You are requested to embody the substance of your remarks on this sheet for publication in the JOURNAL, and then return it to the Secretary of the Section.

Discussion on Dr.....'s Paper or Discussion.

Date.....

Section of.....

Mr. or Dr.....No.....

"A notional case of Blackwater
Fever, with specimens"
by Dr. Thom

Discussion taken part in by
Dr. Manson

"Diseases of Gorkhas"
by Dr. Andrew Duncan

Please write on one side of the paper only.

The Office of the Editor of the "British Medical Journal"

* * You are requested to embody the substance of your remarks on this sheet for publication in the JOURNAL, and then return it to the Secretary of the Section.

Discussion on Dr.....'s Paper or Discussion.

Filaria

Date.....

Section of.....

Mr. or Dr.....

21

No.

Capt James

Summit hill mountains in

17-20

L. Col. Maclean Professor of
Medicine.

Inoculation of European

Wilmson spoke
22 days.

Entered in Montrosei in party
been fed in bananas

Filaria everywhere in
body // but in water not
evident 304 hours. Stated in water

direct infection need
microscope not sufficient

in filaria may be

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Ross

saw a man residence of
on N. Coast called he had
filaria per mosquito bite.

Bushman

for neural Debility
of feet.

Theriacal Wash
Choleraic dew
= C. Infantum

swollen - only during ^{morning} ~~morning~~
attacks vomit & copious
diarrhea + cholera symptoms

Col Macewan

British

no apnea by Theriac

the

cases of foot

*of neural
debility*

Discussion on "Amphystomiasis"

opened by Major G. W. Giles M.B.

and part in by Captain Farnside M.B.

Professor Leonard Rogers.

Colonel Oswald Baker.

Major Ronald Ross.

Dr. Manson -

Dr. James Cantlie.

"
Access of the liver.

Papers by Colonel Kenneth McLeod.

Dr. James Cantlie.

Dr. Johnston Smith.

Dr. Basset-Smith.

The discussion on this subject was adjourned
" till tomorrow.

The Cysterns Sphalangis

Paper by Dr. George A. Williamson.

It is probable that some species of Culex are
entirely to the development of Pleura & their others
I have recently infected some Culex taeniorhynchus or long
whorled they all died after 12th day - then some
as that they were still a little than the usual
very common

remarked regarding the life history of the parasite
he had ~~less~~ carefully studied Major Giles' paper
a rhabditiform stage, had partly followed the
considered that they are sound, he thought that
criticism of these experiments is unwarranted. In his
Giles had mistaken anguillicolae for ankylostoma embryos
Rhabdonema for Ankylostoma; the speaker supported Giles
in stating that the former are uncommon in Assam -
least in Muzong; & thought that such a mistake is
forming a new ~~to~~ be easily made by a competent
He held that the well-known fact of the disease being
so common an earth-workers' disease supported Giles' discovery.
He had long maintained the opinion regarding the
mode of infection just given by Colonel Baker, & thought that
there is little to be said in favour of infection by the soil
of drinking water. Regarding the clinical effects of the parasite
he scented the idea that it is ~~never~~ always harmful
is impossible to give the exact number of parasites required
produce pathological reaction. Rogers estimates of five
is probably much above the mark in many cases. A
number required to produce reaction must
the strength of the host. If the ankylostoma
already debilitated by other disease or
considered that in addition to the parasite
effect, and referred to Daniels' discovery
organs of cases of ankylostomiasis - or

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2

Discussion on Dr.....'s Paper or Discus.....

Date.....

Section of.....

Mr. or Dr.....

Continued.

He concurred with other observers in thinking that worms may leave the patient in the last stages of disease. He entered a plea for the much more general use of microscopes for the detection of the ova in localities where the worms are prevalent, and cited ~~one~~ the instance of a hospital assistant, in charge of a dispensary free of cases of ankylostomiasis, who had not seen ~~him~~ ^{him} at ~~the~~ ^{the} ~~same~~ ^{same} time who was treating the case for malarial cachexia.

P. Ross

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I did not think Quinine had much prophylactic effect. In the Ashanti expedition of 1895-6 it was tried & discarded. Dr. S. L. Sime also it did not seem to have much effect - lose illustrating this in a white N. W. (N. W.?) officer when Quinine was administered by mistake by one daily for 14 days & afterwards the man had fever.

- I do not think the Schubertianus malarial cases influencing afterwards it in many cases. No doubt Quinine & Wolfram Tablets are sometimes passed unaltered - I have seen No heroic doses, 10 grains at a time enough - I have never seen in the urine. *Quinine*

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I have invariably found Quinine ^{as a prophylactic}
as a therapeutic agent ^{for the last 20 years} the results have never
always been satisfactory. But with reference to
Haemoglobinuria, one case I had under my care some
ago made an impression on my mind. It was a private
of which I have unfortunately lost the notes, & I speak
from memory. The case was treated at Rajahmundry
the 1st. Apr. of a very malarious district, &
was a German Missionary, who had been brought
down from the Penu Hills. It was a case of intermittent
fever of the Remittent type, with the usual symptoms & he was put on
Quinine as a matter of course, though much against
his ^{own} wish, as he informed me the drug had on a
occasion produced bloody urine. I was
then called, but the urine shown to me
at my visit was undoubtedly Haemoglobinuria
by the usual clinical tests & was confirmed
under the microscope. This symptom was observed
the drug was ~~omitted~~ ^{omitted}, the urine was non-haemoglobinuric.

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Mr. or Dr.....No.

The cure did not recur, in spite of treatment
— Cold packing, ice to the feet. Died from
hyperpyrexia, with a temp^r of 109° before
death.

I may observe that this is the only case
in all my service that I have ever observed
such an effect produced by opium &
I should like to have the opinion of other
gentlemen present on the subject.

^{in myself} I still consider quinine our sheet
Anchor in malaria in all its
manifestations — W. W. Ross

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Quinn
+
Hemaphysalis

7

The prophylactic use of quinine was used on a large scale in Nigeria by the West African Frontier Force in 1898. Unfortunately I have not the figures at hand but as ~~they~~ the quinine was ~~put~~ not given under supervision on account of the force being divided into small detachments the figures would not be very valuable. I however arrived at the following conclusion, ^{namely} that five grains of quinine administered daily lessen ~~markedly~~ the severity of the ~~fever~~ ^{fever} ~~but~~ ^{altho} that it does not reduce ~~markedly~~ the number of attacks of fever, ~~but~~ ^{altho} ~~the~~ ^{it} lessens their severity, ~~also the mortality.~~ ^{case} I do not agree with Dr. Fiddes' ~~old's~~ ^{old's} experience with regard to the sloughing of ulcers by hypodermic injection.

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Date.....

Section of.....

Mr. or Dr.....No.

personally I have never produced stings by these injections but the injection should be administered intramuscularly not hypodermically and with careful antiseptic precautions.

~~with regard~~

when I proceed to a malarious country again I shall take 2 grains of genuine Shiner a day as I believe it will be better a small quantity of drug circulating in the blood is more likely to act beneficially than one large single dose

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Date.....

Section of.....

Mr. or Dr.....No.

gradually returned ^{was} & eventually ~~the~~
~~eyesight~~ quite restored.

MR

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[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

A copy of
Linnæus's *Systema Naturæ*
by Dr. P. S. Pungin

a secondary form due probably to enlargement of the liver
pleen - a form of a continued type, not directly due to the
infectious agent of quinine. This form has been noticed
by Sandys, Carter, Kelsch & Kerner, Foster & was observed
at spikes while studying kala-azar. He stated that Forti
is the first to point out that quinine should be given
for the access, & cited an example in favour of this view
which which he agreed. He concluded that the drug should
be continued for three months after infection & that it is
not given in solution.

R. Ross

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Mr. or Dr.....No.

of quinine. Dr. Franklin wished to enquire whether
in the quinine zone who had largely used quinine
in the tropics. He kindly expressed ^{experience of the} ~~absence~~ of
Cinchonism could be accounted for by the ^{fact of its} ~~absence~~
administration to patients suffering from
febrile, because in the practice of giving quinine
at home Cinchonism ^{commonly} even after small doses of the
drug, ~~was~~ was not uncommon.

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This important paper by Major James Curran on the
top of a recent paper ^{in the Journal} by Dr. George Low, of the South
School of Tropical Medicine, may give rise to
questions as regards priority of discovery. I am in a
position to state that both ~~the~~ ^{working} ~~men~~
independently ~~of each other~~, that their observations
were made practically simultaneously, & that they
confirm the other, that therefore both share the
merit of making an important contribution to
tropical medicine. The observations I made on the
life history of the filaria were made ^{20 years ago, and} before the
duration of the life of the mosquito had been as-
sured. I took the description current in ~~the~~
natural history ^{of that time} ~~as being correct in describing~~
assigning a limit of about one week to the

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Date.....

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Mr. or Dr. Dr. Ross.....No.

The mosquito as correct. I now know this to be wrong, ~~and that~~ my feeling is that Bancroft is approximately correct when he ~~states that~~ ^{states that} a period of about 3 weeks is necessary to the completion of the melanophasia of the parasite in the mosquito. Still it is quite possible that in particular species of mosquito and in the presence of high atmospheric temperature the process, as Bancroft suggests, may be ~~less~~ completed in the time originally assigned to it. ^{I do not think so, but it is possible.} We know that temperature has an important influence on the development of the malaria parasite in the same class.

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Date.....

Section of.....

Mr. or Dr.....No.

of insects. The fact of the presence of the filaria
in the proboscis of the mosquito suggests, with
not actually proving, that the parasite is
directly inoculated into man by mosquito
bites. At the same time we must remember
that the fully metamorphosed filaria is
sometimes found around the stomach, about
the viscera and elsewhere, ^{than in the head} of the mosquito. It
is quite possible therefore that it may
leave the insect by some other channel than
the proboscis and that it may be passed
into water with the feces, the eggs, or even
the proboscis ~~when the mosquito is dead~~. We know the

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Date.....

Section of.....

Mr. or Dr.....No.

young
Filaria can live for several hours in water.
It dies thereon after a time, possibly from
want of food. It may be that, as with
the embryos of micrococci, it would live
longer in dirty water; ^{— that is water containing food.} Experiments to test
this should be made. If any one is foolish
enough to submit to be bitten by filariated
mosquitoes, and if subsequently ~~it be found~~
~~no~~ young filariae be found in the blood
it must not be concluded from this that
~~the~~ mosquito bite is not the medium of
infection. My belief is that before making

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Date.....

Section of.....

Mr. or Dr.....No.

5

can be found in the blood by ordinary microscopical examination large numbers of parent filariae must be present in the ~~blood~~ ^{lymphatics}. In many cases ~~there must be~~ ^{we found that} hundreds of parent filariae ^{are present}. Thus in one case only 3 or 4 embryos filariae are found in each drop of blood, in other instances as many as 600 ^{or more} are found in a drop - that is 300 times as many, implying the presence of 300 times as many parental worms - Assuming the male & female produce ^{an infection of} 2 embryos in the drop, there must be 600 parents to produce

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in it

Discussion on Dr.....'s Paper or Discussion.

Date.....

Section of.....

Mr. or Dr.....No.

7

Charged was quinine; whereas the food from,
though he may be bitten by filarial
mosquitoes once or twice, is less likely
in consequence of his superior hygienic
surroundings this case of the mosquito net
to be repeated ^{and richly} interpreted. It is much the
same in this respect with the filaria as
with the malarial parasite.

The subject of malaria is by no means unimportant.
It is of great importance on its own account
but even more ^{on account} in consequence of the remarkable
analogy that obtains between it and malaria.

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
Mr. or Dr.....No.

The ~~parallel~~ analogy runs through the entire history of both parasites ~~from extending to their pathological effects - both ~~leave~~ the human blood by the mosquito, both develop in the mosquito's tissues, both probably enter the mosquito via the food source, both are inoculated by mosquito bites, both exhibit a remarkable periodicity in the human blood, and both give rise to recurring fevers. The ~~the~~ further study of the filaria is therefore highly desirable as calculated to throw ~~light~~ yet additional light on the more important malaria parasite.~~

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referred to the case of an English gentleman
living in the West Indies, a patient of his, who
suffers from elephantiasis ^{of the right leg} & who has long ascribed
the disease to the bite of a mosquito on the
right ankle.

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It may be quite true that hemoglobinuric fever is
an expression of malarial infection (indeed my own
opinion, based however on considerations of probability
rather than on ^{logical deduction from} demonstration, is that it is) still I
would protest against ^{jumping at} the conclusion, that
hemoglobinuric fever is a form of malaria ^{inferred}
^{on the strength of} ~~from~~ the discovery of the malarial parasite in
the patients' blood, or of malaria in his nose.
Concomitance of two facts by no means implies
cause and effect relationship of the two.
Indeed it would be strange if we did
infer malarial evidence of recent
infection in all cadavers of Europeans
in such highly malarial countries as

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Date.....

Section of.....

2

Mr. or Dr.....No.

Central Africa or West Africa. It would
not be justifiable to conclude ~~that~~ ^{because we}
~~presence~~ ^{found} malarial in the liver or spleen in
a case of cut throat in Northern Central Africa
^{that} the suicide was caused by malaria; neither
is it justifiable to interpret ~~the case~~ its presence
in hemoglobinuria favor in a similar case.
Such ~~is~~ ^{the concurrence of facts as can} rashness in accepting ^{being} evidence
is not likely to lead ^{might say is likely to retard,} to the unravelling of
mystery of black water fever.

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Discussion on Dr.....'s Paper or Discussion.

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Mr. or Dr. Manson.....No.


against such; thus we may confidently
expect it to be actively prophylactic
as against the benign bacteria, less
active against the malignant bacteria.
The value of the drug is apt to be
underrated in consequence of its being
- in too routine fashion, ~~of the~~
given, under conditions in which it
cannot be absorbed - as in cases of
severe gastro-intestinal catarrh.
Such failures should be eliminated
in assessing its prophylactic value.

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I would recommend that future experiments in prophylaxis ~~should~~ be made with the aid of the microscope and in reference to the particular type of ^{malarial} parasite it is used against; and, also, that the ~~same~~ ^{same} gastro-intestinal condition of the individuals experimented on be investigated and recorded.

We received the same tissue at
the London School of Tropical Medicine
from another source. I came to the
conclusion that death was not due to
an ordinary malarial infection. The
amount of haemoglobin in the kidneys
& other organs was in such amount
that if the case had been one of
malaria-melana would have been
in much larger amount. I came to
the conclusion that the melana that
was present was due to previous
malarial infections. ~~Other cases that~~
sets of tissues which we have examined

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Discussion on Dr. Thur 's Paper or Discussion.

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Mr. or Dr. Wether No.

16
Lately tend to show that Mochewala
Fever is not of ordinary malarial origin

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Section of.....

Mr. or Dr. Case for Dr. J. A. S. & Son No. 1

diagnosed but specific treatment was postponed until it could be undertaken under more favourable clinical conditions. When I saw the patient he was profoundly anæmic - as in advanced Bright's disease, with vertigo, tinnitus, palpitation, breathlessness and all the symptoms of advanced anæmia. Every side of his face showed numerous ankylostoma ova. Under they not be rapidly reconced and left for the rest again quite well. I am administered at Dr. Francis's ^{statement as to} ~~belief as to~~ the therapeutic importance of thyroxine. In my experience it rarely fails provided it be given in adequate and rapidly repeated doses - say 30 grains every hour for 4 times. The diagnosis of malaria from

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Date.....

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ankylostomiasis by ha^m cytometric methods, though interesting & valuable from a pathological point of view is impracticable under ordinary circumstances. Dr. Kaper's statements as to the presence of a leucocytosis during the acute stage of malarial infection are not in accordance with recent observation & perhaps I mis- understood his meaning but the presence of a leucocytosis is generally held nowadays to exclude the diagnosis of malaria. I am disappointed that none of the papers have alluded to Powell's ^{interesting} observation that betel nut chewing is possibly ^{protective} a ~~protective~~ ~~habit~~ habit in the malarial regions of Assam, Burma & the Eastern Peninsula, acquired ^{indirectly} in consequence of its prophylactic virtues against the ankylostomum. I agree with Colonel Mackay

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Remarks that the parasite is generally acquired in food and dirt rather than in water, and that improved methods of night soil conservation are much to be desired on this account in the East. I believe the Chinese method of dealing with night soil to be a good one ^{on sanitary grounds}. The soil is stored in cemented tanks where it rots and ferments for months before it is used as a fertilizer. During this period of storage it is probable that the ova & embryos of the intestinal worms it may contain are killed.

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