

## **Collected papers on tropical medicine**

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- 1) BRADDON (W.L.). The Beri-beri piracy. 1911.
- 2) BRONN (A.). Trypanosomiasis in N.E. Rhodesia. 1911.
- 3) BRUCE (W.L.). Zambesi ulcer. 1911.
- 4) BRUNWIN (A.D.). Santonin treatment of Dysentery. 1908.
- 5) DUNCAN (A.). Amoebic dysentery. 1908.
- 6) JONES (A.W.). Bilharzia of the large intestine. 1910.
- 7) McCULLOCH (H.D.). Roentgen rays in Malaria. 1911.
- 8) MALARIA. Notes on cases. 1911.
- 9) SMITHSON (O.C.). Mossman fever. 1910.

Correspondence

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89186

Mount Beryl.

1729/11

Seremban, 7.M.S.

17th April 1911.

To the Editor of the Journal of

Tropical Medicine and Hygiene.

The Beri-beri Piracy

Sir.

If <sup>accurately</sup> science be the exact expression of facts <sup>ascertained</sup>, then the leader which appeared in your columns on "Tropical Research", in your issue of March 15th last, in <sup>its</sup> reference ~~made~~ to Research done ~~on~~ <sup>the</sup> ~~regard to~~ Beri-beri deviates so far from scientific normal that perhaps you will not resent my criticising a passage <sup>in it which,</sup> as a statement, is inaccurate, and (what I feel you would care for more) in its implication is unjust.

You refer to Drs. Fraser and Stanton as having "done excellent work as regards the part that rice plays in the spread of Beri-beri" <sup>What have they done?</sup>

It will be news to you and to many of your readers no doubt to learn that Drs. Fraser and Stanton have, so far, contributed not a <sup>new or</sup> single <sup>it be</sup> original independent observation of any facts determining whether <sup>the</sup> the origin or "the spread" of Beri-beri.

It is true that after I had published evidence establishing the position of Beri-beri as a disease (not <sup>the</sup> due to infection (as commonly believed) but ~~as a~~ result merely of eating <sup>a</sup> certain sort of rice, and when I had obtained from the <sup>local</sup> Government an opportunity to demonstrate by crucial experiment the truth of that view, Drs. Fraser and Stanton were associated with me <sup>by the Government</sup> in the experiment ~~by the~~ <sup>in</sup> Government and ordered to report on the results obtained.

— the Durian Tipas Enquiry —  
That experiment <sup>completely</sup> was (as it had been hoped it might be) successful.



2

demonstrated under conditions of control,  
It ~~proved~~ once more, what I had already proved ~~very~~ by evidence  
(at least as it happens here)  
far more extensive, that in the production of Beri-beri, the one & only  
essential causal factor is the consumption of uncured rice.

Being successful Drs. Fraser and Stanton reported on the  
experiment in ~~that~~ sense to Government -- but they presented <sup>the</sup> results  
to the public as entirely their own!

Nowhere in the text of the two publications which they made  
nor in numerous public repetitions of them afterwards,  
of the results did they refer to the present writer by whom both  
officially and in <sup>fact</sup> ~~part~~ ~~entirely~~ the observations, actually <sup>in part at least were</sup> made,  
as having <sup>either</sup> initiated or contributed to the result!!

It is true that Drs. Fraser and Stanton have done some excellent  
work on the chemical differences which exist between rice which does,  
and rice which does not produce Beri-beri; and in confirmation of Eijkman's  
well known observations on the production of polyneuritis from rice in <sup>hens</sup>.  
But as regards the practical, the epidemiological aspects of  
the Beri-beri question they have (outside the unamiable and astonish-  
ing piracy of my results just mentioned) added nothing new or  
original to the issue.

When you say therefore in your Editorial " it is no exaggeration  
to say that the following up of Dr. Braddon's original <sup>(!)</sup> idea <sup>(!)</sup> by these  
two men <sup>(!)</sup> may in time save thousands and thousands of lives" etc. the  
<sup>suggestion</sup> ~~implication~~ that my part was merely to have furnished an idea, a  
surmise, which these two men had the merit of translating from  
regions of <sup>pure theory</sup> ~~suppose~~ ~~fancy~~ into fact, <sup>greater</sup> of practical application, <sup>is an implication which</sup> does  
great (although I am sure unintentional) injustice to myself, and <sup>also</sup> ~~even~~  
to others.

<sup>in the first place,</sup> For that Beri-beri arose from rice eating was never claimed by  
<sup>in some way</sup> me to be my own original idea. Van Bieren + others are in print to  
the contrary.

2



But I did claim and still do claim, that I first brought forward <sup>evidence</sup> <sup>which appeared</sup> <sup>irrefragable</sup> <sup>irrefragable</sup> <sup>which proved</sup> <sup>that theory</sup> <sup>beyond all possible doubt</sup>. <sup>which appeared</sup> <sup>irrefragable</sup> <sup>which proved</sup> <sup>that theory</sup> <sup>beyond all possible doubt</sup>.

Moreover the remedy, the simple, inexpensive, but wholly efficient remedy, by which Beri-beri <sup>may</sup> ~~might~~ be everywhere completely ~~xxxxxxx~~ prevented was first indicated by me. That remedy is <sup>merely</sup> the substitution, wherever rice forms the staple of diet, of cured for <sup>the</sup> uncured sort of grain.

<sup>The remedy was recommended to, and it was</sup> ~~It has been~~ adopted by the local Government of the Strait Settlements and the Federated Malay States in all their public institutions, <sup>before ever Drs Fraser or Stanton appeared upon the scene. Its success was such</sup> ~~with~~ ~~such~~ ~~success~~ that Beri-beri, long the scourge of Jails and the Asylums, which <sup>it formerly</sup> ~~had~~ converted into <sup>death-traps and</sup> ~~shambles~~ disappeared from them <sup>and</sup> ~~instantaneously~~, and completely, for the first time in their history <sup>merely</sup> on the substitution of cured for uncured rice.

In the hospitals <sup>too,</sup> among cases already admitted for Beri-beri, the death-rate <sup>er</sup> ~~formally~~ in many cases reaching such appalling figures as 30, 40, and even 45% <sup>no more than 10% or</sup> was reduced by the same simple means to rates of ~~about~~ <sup>even</sup> 5%!

Your hope, that thousand and thousands of lives <sup>"</sup> may in time be saved is not exaggerated-- they have already been saved <sup>are</sup> annually being saved by the discovery <sup>which</sup> is not, however, the work of Drs. Fraser and Stanton.

I am  
Sir,  
your obedient servant

W. Lemard Brownson



1729/2

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89186

Trypanosomiasis in North Eastern Rhodesia.

Serenje.  
by Alexander Brown, M.B., Ch.B., and  
~~John Kennie, D.Sc. Aberdeen.~~

The following record of two cases of quite recent occurrence of human trypanosomiasis from the Luangwa valley, N. E. Rhodesia <sup>supplies</sup> ~~contains~~ further evidence of the rapid spread of this disease in this region. (Mwembe)

Case 1.—Mwembe sent to Hospital at Serenje for examination having left of his own accord a proscribed area in the Luangwa valley, N.E. Rhodesia. The patient declared himself perfectly well and strong and regarded the examination in a humorous light. He looked healthy, although somewhat thin, with individual muscles rather flabby. He explained his condition as due to hunger.

There was no evidence of heart or of lung disease. Respiration normal

Pulse 80, thin and feeble.

Temperature 96°F.

Glands in neck, axillae, and groin were all enlarged. Those on the left side of the neck



were palpable but not puncturable. Those on the right side were much larger. One in particular was larger than the others freely movable and very soft as if it were suppurating,

Both tonsils were suppurating

Microscopic Examination. - A little juice was taken from the enlarged glands and numerous trypanosomes were found. Some fields were without, in others 3, 4, and 5.

The blood was then examined and several trypanosomes were at once found in the first fresh specimen. These appeared slender with free flagellum and were exceedingly active.

Noticeable features are the apparent health of the man. He bolted, after examination but has since been found. There is no doubt as to the feeble pulse or low temperature. Thermometer was ~~tested~~ on the dispensary boy and found quite accurate.

The only tsetse fly occurring near <sup>Mwemye's</sup> ~~Mwemye's~~ home is G. morsitans and he has never been further from it than Fort Jameson. There are infected areas 50-60 miles both north of his district - Petauke and Nawalia, but he has never been near either of these.



Case 2. - Kawimbi. Sent to Hospital, Serenje, because he was ill, and in the habit of falling asleep.

When seen <sup>first</sup> (January <sup>1911</sup>) he had been ill for more than a month. He left his home on the Muchinga mountains and went down to the Luangwa valley four months ago. He travelled south to the Sasare mines, went east to Fort Jameson, then to Blantyre in Nyasaland. On leaving Blantyre to return to Fort Jameson he began to feel ill. He passed through Fort Jameson on his way west to Serenje on the Muchinga mountains. Shortly after he was brought to Dr A. Brown (Serenje).

The patient looked ill and had certain characteristic signs suggestive of Trypanosomiasis. He complained of pain in the head and body. There was slight wasting <sup>in</sup> of the lower extremities. He had a dull and heavy look and turning his head from time to time would close his eyes as if tired. The intelligence of his answers showed that the dull look was not habitual to him. His speech was thick; his tongue had a fine tremor. Anaemia was pronounced. There was no oedema. Pulse 80, small and thin. Temperature 96° 2 F.

The glands on the left side of the neck were slightly enlarged, those on the right side <sup>very</sup> much ~~larger~~ so. There was no throat or other condition which might



Have accounted for them as in Case 1.

Microscopic examination.—The fresh blood films showed numerous trypanosomes, with extremely active movements.

Comparative features of interest in these two cases are the low temperature, feeble pulse, and enlarged glands of right side which were common to both, whilst in ~~case~~ No 1, who showed no signs of suffering, the parasites were more numerous than in No 2 who was very ill.

On March 16<sup>th</sup>, Mwemye <sup>(Case 1)</sup> still maintained that he felt quite well; Kawimbi <sup>(Case 2)</sup> is going steadily down hill at this date.

### Note on the Trypanosomes

(by J. Hennie D.Sc., Aberdeen)

~~Examination of a number of blood films~~  
An examination of a number of blood films stained with Giemsa from these two patients has confirmed the presence of Trypanosomes in both ~~of these~~ cases. In neither are the parasites numerous, although it is correct that they are more numerous in the blood from the apparently healthy man than from the sick. Roughly they



may be estimated in the proportion of about 3 to 1.  
 In Mwemye's case apparently dimorphic forms occur <sup>slender and stumpy</sup>.  
 In both the kinetonucleus is large and the free flagellum long. In some stumpy forms the latter appears short but whether in such cases the terminal portion is simply obscured is not certain. In Kawimbi's case the parasites seem more of an intermediate type as regards shape, but all seem to possess the long free flagellum.

The species may be either T. gambiense or T. brucei. ~~It is not~~ The very distinct character of a long free flagellum appears to differentiate ~~the~~ the forms seen in both cases from T. rhodesiense n. sp. <sup>in which</sup> ~~which~~, judging from the figures of this species reproduced in Bull. St. S. Bureau No. 22. p 399, an extremely short flagellum or its entire absence appears to be a feature.

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*J. Good*

D.C.

1729/3

(1.)

89186

## Zambesi Ulcer

145 A short description of an African disease.

Since coming to the Zambesi delta I have been struck by the number of cases one meets of an ulcer which I do not remember to have seen before nor to have found described in any publication.

The main points about it are:

- (1) ~~That~~ It is met with with rare exceptions in one part of the body - below the knee.
- (2) ~~That~~ It is usually single rarely double and more rarely in the form of two or perhaps three small ulcers on the same leg.
- (3) ~~That~~ It does not spread but exhibits immediate sloughing of the area attacked remains a week or more and then heals by granulation.
- (4) ~~That~~ It produces no constitutional disturbance nor enlargement of the lymphatic glands.
- (5) It is invariably associated with the



(1.) Situation. The rarity of appearance anywhere but on the foot or lower two thirds of the leg is striking and should throw some light on the manner of transmission.

The disease chiefly attacks field workers and they certainly get more cuts and scratches about the legs than elsewhere, but there are other breaches of surface and if the process were a direct contagion one would expect to find a proportion of cases where the lesion was on the face, trunk or arms owing to the custom these people have of sleeping packed together, wearing one another's clothing and rolling practically naked on the ground where the discharge must often have contaminated the earth the mats and so on.

(2.) Description. In its typical form it is a single shallow, punched out, round or oval ulcer, <sup>about the size of a florin,</sup> with a slightly undermined edge, a soft base and a flat purple coloured floor. <sup>also</sup> A few show a fungating mass, others vary greatly in size - from



a hole in which a large pea would fit to a patch extending more than half round the leg - others, but they are rare, are multiple and then the individual ulcers are small.

3 Progress. I have not seen the onset but there appears to be a tender oedematous local swelling one day and the next a slough in the middle of it. This disintegrates and the cavity left - which is only skin deep but looks deeper on account of the raised edge like that of the ankle hole of a Chene's Splint, fills up with a purple gelatinous material resembling the blood stained mucus in a dysentery stool. In a smear it looks like sputum and is almost entirely free from bacteria except the two mentioned.

The swelling gradually subsides giving a flatter appearance, the colour becomes bright red, and granulation finishes the process of repair. The active stage is sometimes over in four or five days, more usually ten to fifteen but may



last two or three weeks, the longer stage being the period of granulation which is slower than that where an equal area of skin is destroyed by injury.

When a toe is attacked it frequently heals without terminating the disease the result being an alarming swelling of the foot that breaks through somewhere else or causes the toe to break down again. Some cases would give the impression of spreading if not seen every day as after remaining unchanged with an unhealthy edge for days they suddenly enlarge by the sloughing of a ring round them after which the larger ulcer so formed heals.

3. Effect Although the neighbouring glands are not affected in the ordinary way a mass in the crural region may be infected with or without an ulcer, forming what is locally known as a "boil" and either subsiding again or suppurating.

1729/4

T. ~~...~~ Brunwin 1

O.C. 89161

Some Observations on the Santonin Treatment  
of Dysentery.

By A.D. Brunwin. M.A., M.B., B.C. (Camb.) ~~Late Medical~~ Resident-  
Medical Officer, Colonial Hospital, Suva, Fiji.

Signititahi

Simon  
143

loury  
C.S.V.



and Hygiene

In the Journal of Tropical Medicine, of November  
~~the~~ 1<sup>st</sup> 1907, Dr D. J. Drake of Teypoor, Arsam,  
describes a method of treating dysentery by  
means of yellow santonin.

From the statistics published this line of  
treatment appears in his hands to have given  
far better results than either ipecacuanha, salines  
or bismuth.

On one estate the average number of days in  
hospital of dysenteric patients was 6.58 and  
the mortality 3, when treated by santonin; of those  
otherwise treated the average stay was 13.1 with  
13 deaths. On another estate the difference in favour  
of santonin was even more marked.

The disease treated appears to have been the  
bacillary form of dysentery. There is no suggestion as  
to how the drug acts but presumably it may be  
looked upon as an intestinal disinfectant.

(2)

Shell

Shell



The method recommended was to give 5 grains of yellow santonin three times a day on alternate days, in 2 drams of olive oil.

The description of this method of treatment led me to try it for ~~the~~ nearly 4 months at the Colonial Hospital, Suva, during my appointment of resident medical officer there; for the preceding 2 months I had used either ipecacuanha or salines, and occasionally bismuth. I am so far satisfied with the santonin treatment as to use it in preference to any other, although my statistics on the subject do not show any marked difference between this and other methods.

Dysentery in Fiji is almost confined to a period commencing at the end of September and ending early in May. There is generally no marked rise of temperature, and the disease is very rarely followed by tropical liver abscess; and I believe that <sup>dysenteric</sup> amoebae have never been found in the faeces.

From the course and symptoms of the disease it appears that practically all cases of



dysentery in Fiji belong to the bacillary type.

My statistics of cases treated are roughly as follows: -

Of 66 patients treated by ipecacuanha, salines, <sup>or</sup> and bismuth the average stay in hospital was 11.26 days with 4 deaths.  
Of 62 patients treated with santonin, the average stay in hospital was 11.11 days with 3 deaths.

Though these statistics are slightly in favour of the santonin treatment, yet I believe its actual value is greater than would be deduced from these alone. It is, in the first place, difficult to say exactly when a case of dysentery is cured; depending on whether it is considered that the patient has recovered when the blood and mucus have disappeared from the motions; or not until he is actually discharged from the hospital.

For the most part I have taken the number of days that the patient was in hospital, except where the patient was suffering from an intercurrent <sup>(4)</sup> or subsequent illness. Again, the length



of stay in hospital depends on the ~~like~~ prospect of the patient on leaving, whether he can rest, or will have to work immediately. I often insist on the latter class staying in hospital longer than is absolutely necessary for the above reason.

Also, the lines of treatment have not, in many cases been consistently followed, as various symptoms may call for a change of drugs given; this was more often the case in the tentative stage of *santonin* treatment, as some apprehension was felt as to its effect on the patient's general condition, and possibly distrust as to its anti-dysenteric properties.

<sup>on</sup> The above reasons will therefore cause some errors in the statistics, particularly as no special notes of the cases were taken at the time.

Even though there were no difference in the length of treatment and mortality I should distinctly prefer *santonin* to either the *ippecacua* or



saline treatment. The former is very depressing and unpleasant for most people which is obviously undesirable in those already suffering acutely; while the constant evacuations and anal irritation caused by frequent doses of salines, also increase the patient's distress.

Santonin appears to be free from these defects, and is at the same time quite as useful, if not more so, in combating the disease.

In all cases I have given it as recommended by Dr. Drake, namely 5 grains in olive oil three times a day on alternate days, and have always used yellow santonin.

This is continued in every case until the faeces become free from blood and mucus and normal in colour. This generally happens within a few days, and I usually give bismuth and salol for two or three days to follow.

(6)



The treatment may be combined with washing out the rectum but I have never found this had any advantage in acute cases.

The treatment with santonin is usually preceded by a stomach dose of sodium sulphate, 4 drams. Of course the patient is kept at rest as far as possible; the diet being milk only.

I have seen no bad results from the administration of santonin as described above. There has not even been any complaint of yellow vision, and <sup>cardiac</sup> no depression except in those severe cases <sup>in</sup> which it occurs as part of the disease. Even in these cases santonin did not seem to accentuate the depression in any way.

Of the three dysenteric patients who died while having santonin treatment, one was a European with congenital cardiac disease, another was a Solomon Islander with a very



acute attacks who could not be persuaded to stay in bed. For the other death during <sup>the</sup> ~~santonin~~ <sup>with</sup> and for the 4 deaths under other treatment, no special reason could be given except failure of the drugs to ~~relieve~~ <sup>control</sup> the disease.

Besides being more comfortable for the patient, the santonin treatment has the advantage that it is easy to administer, and the patient requires less constant attention than in treatment by ipecacuanha, ~~a~~ salines, or enemata. This is a distinct advantage when skilled nursing is not in proportion to the number of patients or is entirely lacking, as in many districts in the tropics.

Two patients under santonin treatment developed acute non-suppurative arthritis towards the termination of the disease. One of these, a European, had been for years an ~~almost~~ <sup>constant</sup> sufferer from sub-acute & chronic rheumatism.

the other was a Solomon Islander who had had no joint-trouble previously. These were the only complications noticed in any of the cases.

To sum up; I am distinctly in favour of yellow sautonin for the treatment of dysentery, both on account of it being more comfortable for the patient to take, and more easy to administer than other forms of treatment. ~~Statistics~~ My statistics also show a slightly shorter course and lower mortality, but I believe the ~~course~~ duration of the acute symptoms to be still shorter than the statistics would appear to indicate.



Some Observations on the Treatment  
of Dysentery by Santonin.



Amelri Diphtheria

1729/5

Andrew Duncan M.D. (Lond) FRCP FRCGS

J. S. 7 vol 19, a lieutenant in the Royal Navy consulted me on Sept 16 for Amelri Diphtheria from which he had been suffering for 5 months. During this time he had exhibited the features of the disease as described by Dr Cornuthan and Laffan Laffan in their classical paper in the Town Hospital Report for 1891; ~~namely the mucus has been constantly~~ No solid mucus had passed for the first month, the deposits being of a light brownish or greenish character, sometimes with blood, but more often the latter was absent. He ~~was~~ Exacerbation followed by alternation of the symptoms occurred as the disease progressed - on Dec 25 he was in sick quarters at H.M.S. Alexandria. After six weeks <sup>July 1</sup> had elapsed, no improvement having taken place, he was transferred to the hospital at Port Said, where he stayed for three weeks, and was then discharged home as the symptoms had by this time practically disappeared. On the day of his landing in England, <sup>he</sup> again had a relapse, and was admitted into the Naval Hospital at Plymouth for a week, when the symptoms once more ~~abated~~ abated. He reached his home on Sept 16. The bowels now not having been opened for 48 hours, he was given the enemata, which brought on once more the loose mucus with mucus. His looseness was absent during the day, but always came on at night. The bowels being opened about four times <sup>each</sup> night.



He had not had a solid stool for four months when I first saw him. He had been treated for anæmic dyspepsia, according to the plan advocated in America, namely - the rectal injection; ipscacuaha was administered.

As the rectal injection had not stayed the progress of the disease, I at first gave him i3al, which drug has been strongly advocated in India lately - This had no effect - after taking the i3al for nine days, I began treating him with <sup>9 grains</sup> large doses of ipscacuaha - <sup>three daily</sup> The effect at once was most striking. The motions gradually ceased until on Oct 10<sup>th</sup> he passed his first solid stool. Since this date he has had no more loose motions, but on the contrary a tendency to constipation - His general appearance is very different what presents on his first visit here, being now that of a boy in perfect health.

I think this case worthy of record for <sup>the following</sup> reasons - First, the immediate cessation of the symptoms on the exhibition of ipscacuaha was most striking. Secondly the case with the practice of the physicians in England would tend to show that ~~the anæmic dyspepsia~~ the treatment of anæmic dyspepsia varies with the country in which the disease occurs, in the same way as the treatment of bacillary dyspepsia varies with the country in which it occurs. Thus the report of the latter, as is well known, ipscacuaha which is so successful in India, was of no service as a remedy in South Africa - Sir Hester Prynne has informed me that it was given up, and the case treated by salina. Again in South Africa malarial fevers gave remarkably good results under Quinina; it was found that no effect at the Murchison Hospital at least - In many cases of the infection was found to have supervened upon the use of ipscacuaha.



Salvini.

Referring to the treatment of Asiatic Cholera the opinion of  
American Physicians has been until recently against ~~that~~ any value like  
obtained from opocacantha - Dr Strong in his very comprehensive article in Professor  
L. B. Oler, System of Medicine states that local treatment by local application of  
guaiacum and irrigation gives by far the most efficacious results: in the last  
Edition of ~~the~~ <sup>the</sup> Principles and Practice of Medicine by Oler,  
opocacantha is not mentioned in the treatment of this form of dysentery, but like  
Strong, he holds guaiacum superior to the rest - In the paper mentioned a little  
of the John Hopkin Reports, guaiacum appears to have been <sup>followed by</sup> the most  
satisfactory results. In Patrick Manson in the contrary now holds  
opocacantha to be a specific for Asiatic dysentery; in the Early Edition of  
his work on Tropical Diseases, it would appear that he was not decided  
whether or not really did cure the existing cases of the disease.  
And in this <sup>new</sup> edition, I for a long time agreed with his <sup>early</sup> views - During  
the whole of my service in India, I never saw or a single case of Asiatic  
dysentery, that is long dysentery dysentery showing a long course and with the  
exacerbation similar to that described in the John Hopkin Reports - Colonel  
Buchanan, that indefatigable investigator into the Tropical Diseases in India,  
however held that Asiatic was of consequence. How - During the last  
year there have been however one or two cases reported in the area  
of success obtained by opocacantha - How as he explains  
I have never seen the peculiar pill appearance that  
has been described.



4  
Not different results? The only explanation would seem to be that the type of  
the disease is seen - America differs from that seen in England -  
lastly the term Anthrax or Typhoid dysentery has always seemed to me like a  
misnomer, at any rate as regards India - The most frequent form of the  
disease, in fact according to experience, the ~~only~~ form of the disease, seen in  
the United Provinces and in the Punjab has been bacteroid dysentery.  
Professor Leonard Rogers states that this is the most frequent dysentery in  
his experience - ~~and~~ I don't know whether this be the case in other  
Tropical regions, but if so, it would seem that Tropical Dysentery is kind  
closely associated with bacillaria the with anthrax as a cause

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O.C.

Bilharzia of Large Intestine

1729/6

Scott 76-3

20 and

89186

In the interesting article by Mr. Owen Richard on Bilharzia of the large intestine contained in your issue for March 15<sup>th</sup> a note is given of a case treated by appendicostomy. As the application of this operation to the condition under discussion has no doubt - been up to now but rarely employed, the following somewhat sketchy notes of a case of my own may be of interest.

The patient, a male Egyptian aged about forty-five, was admitted on the medical side of the Government-hospital in the summer of 1907 under the care of Dr. Betts. He complained of frequent bloody stools with abdominal pain, the latter symptom being the one from which he was most anxious to obtain relief. Gravidities were detected in the rectum & Bilharzia ova in the stools. No tumour could be detected in the abdomen. Medical treatment failing to afford him any relief he was transferred to my ward & on June 30<sup>th</sup> I performed an appendicostomy. Recovery from the operation was rapid & through the fistula we were subsequently able to irrigate the large bowel with Silver Nitrate (1 in 4,000), Normal saline and



other solutions. The case was presented later  
at the Société Médicale d'Alexandrie to show  
the technical advantages of the operation  
apart altogether from the question of the  
aptness of its application to Bilharzian disease.  
At first there was no improvement - in  
the number and character of the stools whilst  
his ~~weight~~ went he lost slightly in weight.  
We were with difficulty able to keep him under  
observation in hospital until Oct 7<sup>th</sup> but he  
then insisted on leaving and as he belonged  
to the class that live on charity ("at the door of  
Allah" as they say) I have since lost all  
trace of him. At the time he was discharged  
from hospital I made the following note:-  
"Looks well - no pain - no blood nor ova in  
stools (examined by Dr Hussein). Stools are well-  
formed & about three in 24 hours - He was  
extremely indiscreet in his diet. Weight 112 lb  
only."  
My idea in doing the operation was that by  
ameliorating the symptoms we might  
prolong the patient's life & thus live him  
over the date when the parent worm &  
dying might bring about a natural cure



In my case the appendix afforded some difficulty,  
being very long, & narrow & firmly fixed behind the  
caecum. Indeed half way through the  
operation I felt some misgivings lest we  
~~was~~ was not exposing my patient to a  
risk unjustified by the problematical  
value of any possible benefit: If it can  
be proved therefore that a majority of these  
cases present unusually long and adherent  
appendices the operation itself will have  
to be regarded at any rate as a somewhat-  
less innocent and harmless procedure than  
it is usually taught. When we consider  
that the ova are situated deeply to the  
mucous membrane one can scarcely hope  
for great benefit from topical applications  
even though they be applied by the  
medium of an appendicostomy fistula. Of  
course in any case the patient - woman  
remains unchanged. One must also take  
into consideration that the class from  
which most of these patients come -  
namely the fellahs - ~~are~~ not conspicuous  
for their intelligence, ~~in fact I can scarcely~~  
~~picture a fellah reclining on his~~  
~~down~~ and



I doubt whether one could explain satisfactorily  
to a felaha how he <sup>to</sup> might take advantage of  
the fistula: & indeed cannot picture him  
reclining on his divan, irrigating his colon  
with a douche can suspended from the roof  
of his mud hut.

In short - whilst admitting that theoretically  
there is something to be said in favour  
of the operation, I cannot think it is  
likely to prove of much practical benefit.  
For my part the case would have to be  
very specially selected that would tempt  
me to repeat the procedure.

Arthur Jones F. R. C.S.  
Surgeon & Gynaecologist - to  
~~Chief~~ Govt. Hosp  
Alexandria  
Egypt.



O.C.

1729/7

89186

Curative influence of Roentgen Rays in Malaria. *copy*

By H.D. McCulloch M.D., M.S. (Glas)

The original article under the above title, by Lt Col Bruce Skinner MVO. RAMC and Lt H.W. Carson RAMC, which appeared in the British Medical Journal of the 25<sup>th</sup> Feb, last (p431) is one, that not only opens up a new and important field, in the early treatment of those essentially blood infections, in which the spleen, the liver, & to a lesser extent the pancreas, is involved, but it also throws interesting light, upon those infective processes which ~~are~~ the result of infections, which are not intravascular & of the blood primarily, in which the lymphatic glands, which are distributed in so many parts of the body, become involved. As examples of the former, <sup>we have</sup> septic endocarditis & malaria, & of the latter Tuberculosis and syphilis.

In 1906 I made a contribution to the Lancet, entitled, "Observations on the induction of auto vaccination by x ray irradiations of the lymphatic glands in Tuberculosis, & other glandular infections, as revealed by the opsonic chart."

That work received corroboration at the hands of Dr<sup>2</sup> Lawrence & Crane of the United States in Tuberculosis, and with Messrs Paoli & Runcioni of Italy in primary syphilis.

Now the physiological relationship of the spleen & the bone marrow on the one hand, and that of the lymphatic glands on the other, have been well known in connection with the reactive processes which are termed inflammatory. There is deposited in these various glands, masses of neoplastic cells, which increase the bulk of these glands, greatly hampering their physiological functions, particularly where the microbial invasion is sudden & extensive, as in the early

Semmels  
142



Early stages of malarial fever during the periods of sporulation. The resulting conditions are variously termed Splenitis, hepatitis and adenitis &c.

In dealing with these conditions we are concerned with relieving distressing symptoms & the elimination of the cause, which, up to the present time, we have been able to achieve with more or less success. But of the resulting fibrositis and induration, this has been left to time & nature, to deal with. The repression of fibrositis, or the regulation of these reactive processes, in the early stages, has not been possible, beyond what has been achieved by fomentations poultices & packs, and a recourse in the later stages to arsenic & the iodides. The value of the time honoured & judicious use of quinine, when administered by subcutaneous injection for preference, as a malarial parasiticide is not disputed, but in dealing with these conditions & their sequelae, it will be admitted, that much remains to be done, that it has not hitherto been possible to do.

Medicinal fibrolytic, alterative & resolvent remedies, have been tedious, irksome & disappointing in the majority of cases.

In the x rays, we now have a means of achieving these much to be desired ends, with absolute safety to the patient, & in a short time.

No doubt, what occurs after recovery from these fevers, is a crippling of portions of these glands, & a compensating hypertrophy in those directions where the gland parenchyma has escaped the constricting effects of fibrositis, just as when one kidney is surgically removed, its fellow undergoes functional hypertrophy to meet the needs of the body, this being a true hypertrophy & not a fibrositis.



In 1907-08 three cases of Splenic & hepatic hypertrophy, the result of malaria in Englishmen, came under my treatment by the X Rays, and in one, who was able to meet the intra cost, a series of blood examinations were made previous to, during & after the treatment. This was a patient of my friend Mr Neil Macjellycuddy of Bournemouth, who sent him to me at my suggestion. His anaemia was his chief complaint, though there was marked enlargement of both spleen & liver. His colour index soon rose from a little above half the normal, to 88% & this improvement, synchronized with a marked reduction in the size of his spleen & liver. The blood examinations were made for me by the Bournemouth Borough Bacteriologist, & by the Clinical Research Association. In all three cases the results were very gratifying. I happened to visit London shortly after these experiences, & mentioned them to Mr James Cantlie & Sir Patrick Manson. The former lent me his ray, & I was pleased to hear from him, that his friend Dr Irwin Bruce had also had similar success with enlarged spleens, I cannot recall whether he referred to leucocythemic spleens as much excellent X ray work in this connexion had already been done. But they are two very divergent pathological states, that of leucocythaemia being more comparable to the status lymphaticus, while that of malaria is a pseudo-reactive hypertrophy, and one that is far more amenable to X Ray Treatment.

The authors of the paper above referred to, unfortunately, neither enter into the X ray technique adopted by them, nor do they seem to have made any blood examinations, but to me their remarkable experiences are very convincing, since my experience with the X Rays, which began in India with Oriental sores in 1899.



The authors conclude their paper, by stating that they <sup>also</sup> have fine cases of chronic enlargement of the spleen after malaria & that in these cases they are not able to speak yet with any certainty. Such however are the cases which I have dealt with & they afforded the most gratifying results.

I regret I am unable to accept the suggestions of the authors, in regard to the essential therapeutics of the x rays, which they compare with the effect of heat, with which there is not the remotest analogy. In the x rays we have, what has been termed, a 'fourth state of matter', a most potent molecular agency, which influences cells according to their individual molecular complexity and their relative instability. The more recently & rapidly developing cells are more influenced in regard to their resolution, than are those that have become 'fixed' & more relatively stable. Spermatogoa, the lymphocyte and the neurone, are some of our most complex cells, but microorganisms, even of a pathogenic kind, are not so influenced, because of their less molecular complexity & relative stability.

It may be asked, how then do you account for the x Ray burn or the x Ray cancer, so called? It is well known that that the rapid abstraction of heat by the application to the surface of a piece of  $\text{CO}_2$  snow for a few minutes, instead of a few seconds, will also cause a burn or frost bite, which is followed by extensive necrosis, just as the injudicious use of too prolonged & unfiltered x rays will cause <sup>similar changes</sup> without any imperceptible trace of heat reaching the skin.

H. W. Cullloch.





6



1729/8

89186

1911  
May 1<sup>st</sup>

Mr. Hardie Philips - a tall thin lanky youth, very anæmic - age about 22 years, has been a few months in the country, takes 5 grs Quinine daily, does not know what preparation as he brought them from home, in the bungalow goes about with sarong & bare legs, legs up to knees covered with scratches, mosquito bites, has never had Malaria.

8 <sup>th</sup>	Fever, Temp	11 am	103°	{ Quin Hydrolon grs XV Aspirin 5 grs. Hot drink.
		3 pm	101	
		5 "	102	
		7 "	103	
		10 "	101	Quin Hyd grs XV
9 <sup>th</sup>	" "	8 am	99.2	
		11 am	Normal	
		5 pm	100°	Quin Hyd grs XV
		9 pm	101.4	
10 <sup>th</sup>		8 am	100°	Quin Hyd grs V
		12	101	Hamel's Haematogen & milk.
		4 pm	103.6	{ Haemoglobinuria Calcium Chloride grs XX Syr 4 hours Quin Bibyhydrol grs XV
		5 pm	102	
		7 pm	101.4	
		11 pm	101°	Champagne, 294 flaps.
				Beards Brandy & Claret
				Milk ad lib
				Wine Solia albumin
				Haematogen & milk -
11 <sup>th</sup>		3 am	101°	Same treatment -
		5.30 am	99.6	albumin 50% solid



(2)

May  
11<sup>th</sup>

Temp.

9 am	100°	Calai chloride grs x every 4 hours.
12 noon.	100°2	Lin hydrochlor grs v 3 times daily.
4 pm	100°2	
10 pm	99°8	

12<sup>th</sup>

6 am	Normal
12 noon	do

13<sup>th</sup>

all day normal. and remained normal until I took him to Kuala Lumpur Hospital for nursing on the 17<sup>th</sup> by which time his urine had cleared, only a slight trace of albumin being present - as there seemed every chance of his kidneys suffering no permanent damage, I advised Harrison & Crofield, to keep him there till he was strong enough to travel alone, then as it was May to send him home for the summer, before cold weather came on, have him examined in England, and if kidneys all right send him out again, if possible putting him on a healthier estate - As you know I have in West Africa seen many cases of Blackwater Fever, with my Calcein Chloride & treatment I have never yet had a death. and I assure you this was a typical case of Hæmoglobinuric Fever, cut short by early application of what I consider the correct treatment - vide also Castellani & Chalmers -

Y



1729/8

89186

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May 1<sup>st</sup>

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		11 am	Normal	
		5 pm	100°	Quin Hyd grs XV
		9 pm	101.4	
10 <sup>th</sup>		8 am	100°	Quin Hyd grs V
		12	101	<del>Hamel's Haematogen</del> + milk.
		4 pm	103.6	{ Haemoglobinuria Calcium Chloride grs XX Syr 4 hours Quin Bibyhydrol grs XV
		5 pm	102	
		7 pm	101.4	
		11 pm	101°	milk ad lib -
				Wine Solia albumin
11 <sup>th</sup>		3 am	101°	Haematogen + milk -
				same treatment -
		5.30 am	99.6	albumin 50% solia



Mr Marshall - Manager. Ayer Augat Estate -  
Age about 32 - Anæmic, enlarged spleen, heart weak & flabby -  
has frequent attacks of fever. Takes quinine occasionally  
generally for a week after each attack, then forgets it -  
has been about 6 years out here, without home leave -  
last attack previously - June 11<sup>th</sup> to 21<sup>st</sup>. Quinibily hydrochlor  
by intra muscular injection - 3 days running, then by mouth  
10 gr daily -

Present attack  
27<sup>th</sup> July

Called 10 am temp 103°. vomiting, 2 1/2 gr. qu. xv injection -  
he telephoned 4 pm, very bad, Blackwater, at 4.30 I  
found him collapsed, vomiting, rigors, heart's action very feeble  
Expected, Strychnine & Digitalin, at once, hot bottles, blankets  
Calcium Chlor Gr xxx in Chloroform water every 4 hours, and  
2 injections Quinibily during the night, feeding, champagne  
brandy, Chicken essence, ice, Asmatogen from the start -  
Temp kept varying 104° to 106°. Urine solid -

8<sup>th</sup>

Temp still 105° inject quinine gr xv at 4 am, but temp  
kept up till 7 pm when it dropped to 100°. very bad night,  
rigors & vomiting at intervals, less albumin. Calc Chlor Gr xx -

9<sup>th</sup>

At 6 am, temp 99.2 better, taking food well, 10 pm 100.2

10<sup>th</sup>

better night slept at intervals, has stopped yawning & shivering.  
temp Normal all day. takes nourishment freely every half hour  
Urine clearing. pulse improving -

11<sup>th</sup> & 12<sup>th</sup>

Gaining strength - Temp keeping normal, takes food well

13<sup>th</sup>

still improving - urine clearing.

14<sup>th</sup>

motored him to station & took him up to K L Hospital -  
his kidneys will want watching as this was a more severe  
attack than Hardie Philips -

25

Left 7.30 p.m. for Singapore en route route. England



1729/8

89186

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		5 "	102	
		7 "	103	Quin Hyd 9m XV
		10 "	101	
9 <sup>th</sup>	" "	8 am	99.2	
		11 am	Normal	
		5 pm	100°	Quin Hyd 9m XV
		9 pm	101.4	
10 <sup>th</sup>		8 am	100°	Quin Hyd 9m V
		12	101	Hamel's Haematogen & milk.
		4 pm	103.6	{ Haemoglobinuria Calcium Chloride 9m XX Syr 4 hours Quin Bibyhydroch 9m XV
		5 pm	102	
		7 pm	101.4	
11 <sup>th</sup>		11 pm	101°	milk ad lib
				Wine Solia albumini
				Haematogen & milk -
				same treatment -
		3 am	101°	
		5.30 am	99.6	albumini 50% solia



(2)

May  
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1729/8

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		12	101	<del>Hamel's Haematogen</del> + milk.
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		5 pm	102	
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		11 pm	101°	milk ad lib - Wine Solia albumin Haematogen + milk - Same treatment -
11 <sup>th</sup>		3 am	101°	
		5.30 am	99.6	albumin 50% solia



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25

Left 7.30 p.m. for Singapore en route route. England



T.M.

T.M. O.C.

1729/9

Mossman Fever  
Olive's Smithson

89186

Part in type  
I think you  
might reproduce  
3 of his charts -  
I have marked them  
I II III

# Mossman Fever by Oliver Smithson F.R.C.S. etc.

Finis  
112

A peculiar fever, which, to the best of my knowledge has never been described, is common in some parts of North Queensland.

It occurs mainly in the Mossman district which lies a few miles north of Port Douglas. For this reason I have given to it the name of Mossman Fever. Locally it is known as Filariol Fever - why, I do not know. The disease begins somewhat suddenly & the patient complains of headache & a feeling of general malaise.

Slight shivering is common but actual rigors seldom occur.

The temperature within a few hours rises to  $102^{\circ}$   $103^{\circ}$  or even  $105^{\circ}$ . The pulse rate is increased but not as a rule in proportion to the temperature.

The tongue quickly becomes coated with a thick moist white fur. In fact its appearance is characteristic. The breath becomes exceedingly foul.

Vomiting is occasionally troublesome & some patients complain bitterly of pain in the epigastrium.



Within a day or two of the commencement of the attack the posterior or subscapular group of axillary glands is found to be enlarged & tender. The enlargement is not great; the glands seldom being bigger than an ordinary marble. They are not painful unless pressed upon, the patient is usually unaware of their existence until his attention is called to them.

In a few cases the superficial inguinal glands are enlarged - but this is exceptional.

The duration of the disease is generally from ten to fourteen days. During this period the patient's condition is unchanged, the temperature being from  $101^{\circ}$  to  $104^{\circ}$  at night & dropping a degree or two in the mornings.

At the end of ten days or so the temperature drops more or less rapidly & in a very short time the patient is quite well again.

The death rate is very low, few fatal cases having occurred.

In these cases the patients all fell rapidly into a 'typhoid' condition. There was no delirium & the patients were always rational; but were dull & lethargic. They



Could be roused by speaking sharply to them, but immediately lapsed into a semi-conscious state.

In these cases the pulse was rapid & very weak & although the temperature dropped for a time the pulse rate could not be reduced & there was a rapid rise of temperature just preceding death.

No drug seems to have much influence in this disease. I tried quinine, salicylate of soda & salicylate of quinine & found them useless. A simple saline mixture seemed to do more good than anything - at least the patients ~~appeared~~ to appreciate it more than anything else, whilst <sup>phenacetin</sup> ~~antifebrin~~ certainly relieves the headache more than ~~an~~ antifebrin or antipyrexin.

I examined the blood of some of patients suffering from this disease.

In a few instances I came across the Filaria Sanguinis hominis, but beyond this the blood appeared normal in every instance.

The chief industry in Moreman is the growing of Sugar Cane.



This fever attacks the cane cutters almost exclusively. The farmers themselves & the men employed in the crushing mills almost always escape.

The inhabitants are inclined to blame the mosquito in connection with this fever, but I cannot think the mosquito is a factor to be reckoned with. Neither do I consider the disease to be infectious.

In the Port Douglas hospital one ward is set apart for this fever although mosquitoes abound, patients in the other wards seldom or never contract the disease.

Another fact worthy of mention - Moresman is about six miles north of Port Douglas, straight across the bay & about 14 miles by rail.

In many instances I took a patient's temperature just before entering the train at Moresman, & again an hour afterwards on admission to the Port Douglas hospital. In the vast majority of cases I found the temperature had fallen one or two degrees - occasionally it fell to normal, but the temperature would always rise the next day. The medical officer of the Port Douglas hospital tells me (4)



he has often noticed the same thing.

Although Pat Doyle is so near Thurston the disease is unknown at the former place. Another peculiar feature is this - cases admitted from certain sugar farms are nearly always of a mild type whilst those admitted from other farms are of a severe type. In fact some farms have earned a most undesirable reputation in this respect.

Dr Clark who was formerly in charge of the Mount Mellogh District Hospital, which is about 20 miles west of Pat Doyle, says a similar fever occurs there & is known locally as "scrub" fever. Mount Mellogh is over the coastal range & is a mining district. Going further inland to Chillopor, Mungana & the Mitchell River district the disease is not known - at least. During a residence of nearly a year there, I never saw a case.

It seems possible that the fever may be conveyed by the bite of some insect. Found amongst the sugar cane, & the disease is confined almost exclusively to the cane cutters, though the occurrence of the disease



in a manner distinct like Mount Holyoke  
the absence of lymphangitis seen with  
against this view.

(b)



AT HOME:

9-10.30

2-3

6-7.30

"Hanover Villa,"

TELEPHONE 2623.

Stanley Street, East,

Brisbane.

Sept 22. 1910

Dear Sir

For the past year I have been  
travelling about Cape York  
Peninsula & have come across  
a fever which I have never seen  
described, & which the local  
medical men do not seem to have  
taken the trouble to investigate.

I enclose some notes on  
same & some characteristic  
temperature charts.

I know you think the notes  
worth publishing in your paper,  
I would be glad to receive  
a copy

Yours truly  
Oliver Smeaton

Addressed to the Editor  
of the Tropical Journal