Leprosy.

Previous	My Corela	While	2/3		
· see 46503/48/38	Or O. Bri		14/3		
(bisit of Dr. to to E Africa)	D.O.B.	89	31/3		
		may e-	764		
Subsequent		98.	14/4	*	
1939.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A	<u>*</u>	3
			7.1		
297 4	9	,			
309 10	1				
Mutaskin					
7 Smart 29		. K			
hor Parkin &	•	4,			
297 25	<i>fu</i>			and the contract of the contra	
Milaskin 57				Samuel America	
	liv		1	1	
. 297	7		. j		
Kgs 4					
K 89 18	4				1
	2/3/				
FILE A.	3() (1597 - Wt. 25484)	6. 8.000. 49/07. .082[[7.4]	min diam	The second second second	

Gheeral (sent toy Bo heren of the proof to the day of alice) hormal This report is clear concers & interesting, It willedes recommendations for the establistervour posseper settlements and for the alterations of present ones, & elev advise as to treatment. If hothing cames in from Kerry about it in the new 3 months (ch. 1) an 41041/2/38 2'ban) a utu? shoniù go Saying the Softs will be interested to bean what action is being Caken to proposed. ? Ring Cloring While The report suggest - a conider not debise of Hada . . m. makes as the want or many stone in due con ... Thave discussed this whool with D'hair The was returned from Part agrica. be informs me has the Keaya For des an going to melide in their never years estimates for a heavy worker who wil be whether by the Kit R. A. He The waln a provocal for a specialist. a leprong for Parlyingens, kengs squada and hyperse and

both of he four government.

be well hear how about there
appointment in due course where
so no heed for no 6 take the master

of with the kenya wood. In the
meantaine.

ywhen 299

the for the process of the comments of the com

day worker, with previous experience or Pregeria will be available for routh Kaverondo about 1st July 1934 (Orage legal - 46130/38 5 land)

Act as as the original of this letter as for for been to acknowledge it and to deal with the summer or perform wheth.

Action as this file should now be to in ? (En Kenya (40 for D. OBrienis sing?) (hat the BFIRA. have sent us a copy (Ant) Je Dr Min's Report on Kenya, a mate Dr Min's has now written so in pua 3 of No 2.

The Kerryn Draft Estimates mot sent on) do not appear to contain my expenditive estimate for the Lepton, order the term

Head XX, 63 "Maniferame of lepin establishments" vernains
the same as last year. Perhaho however
the same as last year. We head during
the weersamy prosition with be made during
the paraege of the things beg

We had gothered and the necessary provision we had gothered and the necessary provision for the reprise works. I will be made in factor for the faces for the first we have faced to find it in the Draft Bhurster while 1/12

PS. I have noted at the Sometimed file that action for a puras 3 4 × 6 are being taken in this file, 4022/38 liganda & 42318/38 Therpectively.

3 % D. Pateron 13./2 38

V

B. W. vide minute of 30/9. Hackson. 1998 ? Put by awaiting reply to (3): Clother White 9 Pasain ? Dordmen shown see this: he may how convention about its perhaps have when in EA Clarky white I de arma leprong but It Pateron Shen as Henrya. his estimates had not been approved When I saw him to had I cound say whether a AT promor has been hade for his spal in the estimation of Paterion is not enther the about aprolline. 2 Smut Musakin of the about This before young in leave. It seems that the opportunity

If you think Do not more again. it desirable ? action Clorky While 1 Paterson. 5 BENAN You Amily DESTROYED CY HISTATUTE

opened ", 33 g (2) may be lest if me

was to be provised by the BELRA, and to make provision for his - salary in the 1939 Bitimales. be haven't found any such promision in the oraft Extinates; but we may have misses it; and perhaps, if it is not gettime, it with be michious before the Estimates are parte in legislative Convil. I trugget, homen, hout I show not delay in sendong you the following extract from a letter I have recently had from In home, as it migrer possibly affect any Mans that may be burning. It reads as follows: -

[para 3 of No 2]

(ha) Hypsunt

1 24 5

THE BRITISH EMPIRE LEPROSY HALLE ASSOCIATION.

ijl Boker Street,

Rei: 1./1...

Lonava, ... 1.

11/10/38

Jear Jr. . 'Erlei.,

- Politowing our deliversation over the same season our love are season as all my lotter to surjet -, a rail and some season to start our seasons or season to start of the seasons.
- cores of the relative bunitary Superintendent for legros work in British Schmilland, what Leguire, of the Victoria mospital Belfast, is recommended, and I understand from you that this appointment is likely to be made as from April 1st, 1959. If and when the appointment is made, he would no in the first instance to Uganda so as to study leprosy, especially in the Laper Settlements at Kumi and Ongina, in the Sestern Frevince of Uganda. e would remain in Uganda for about three menths and then proceed to British Sommilland, or where the direction will have returned and made arrangements or aguire to begin work. In writing to diss l'incomments for about three menths will have returned and made arrangements or aguire to begin work. In writing to diss l'incomments are permission. I whose seepin is a life in the comment of the permission. I whose seepin is a life in the comment of the permission. I whose seepin is a life in the comment of the permission. I whose seepin is a life in the comment of the permission. I whose seepin is a life in the comment of the permission. I whose seepin is a life in the comment of the permission. I whose seepin is a life in the comment of the permission. I whose seepin is a life in the comment of the permission.
- into represent the deglight and and a fit of the respective for the deglight and a second of the respective for the deglight and a second of the respective formula to be pair to the local everyment we will have such a day worker avoidable about the least of the largest and best lever section along the largest and best lever section along the respective formula trained in the largest and the largest and the largest and the largest and lever section along the respective formula trained in the largest and the largest and the largest and larges

In my Deards report . recommended the popolations of another lay corner and a first a ell spend acre in Lestern Igande, and later in lire, in crea last sanda, his salary to be paid by b.L.I.R.n. -.... have another similarly trained lay orker available sound the lat of July, 1, , the will be stituble for I maye' lready aformselvings. made i. ny i mganjih re ort re s eciclist for rica, - 0331.11. . ul. be ... governments conserned; the belance or ijo.. B.E.L.R.A. You yourself sugested a noningent of that is, that the a jointment be also much the loggist orfice, B.E.I. ... paying in her place of for that purpose. The motter and a regard meeting of the Executive conmisses of S.E.L. ... Association of All therever a 3000 Juliu are prepared to product G-At this weeting justicing to me agreent im desit, bouther's incresse, and makes i the leber settlements of the : 13. wireen that I muld pri

to highir on the return journey.

Mrs sincerer . (-- . 01/

... real recont

Colonial Office. Whitehall.

a possibility that Dr. Ross lines, thom we are all agreed would be an ideal man for the post, may be available in about two years time. In my recommendation, suggested that part of the salary be met by grants from the various East African governments concerned, the balance of 2350, being borne by B.E.L.R.A. You yourself suggested a modification of my scheme that is, that the appointment be made under the Colonial Office, B.E.L.R.A. paying in her quote to the Colonial Office for that purpose. The matter was discussed yesterday at the meeting of the Executive Committee of B.E.L.R.A., and the Association highly approved and recommended the scheme and are prepared to pay a sum of 2350, a year for five years.

Should make a further tour next year, visiting Nyasaland about the beginning of June, and thereafter visiting Northern Rhodesia, Southern Rhodesia, and Basutoland, and, if invited, the leper settlements of the Union of South Africa. It was also agreed that I should pay a visit of about a fortnight to Nigeria on the return journey.

Yours sincerely,
(Signed) E. Muir.
Medical Secretary.

Dr. A.J.R. O'Brien, C.M.G., M.C., Colonial Office, Whitehell, S.W.L.

The Under Secretary of State for the Colonies, Colonial Office, Whitehall, S.W.1.

Dear Sir.

As you are aware I visited British Somaliland last August at the request of the Colonial Office and the Government of British Somaliland. You already have a copy of the Report which I drew up after that visit, and after discussion with the Governor and the Senior Medical Officer. Dr. Bell, the Senior Medical Officer, and I, had an opportunity of discussing the question of so operation in dealing with laprosy on the Abyssinia-British Somaliland border with Sir Aldo Castellani recently, and he advised me to write, through the Colonial Office, to Surgeon General Andrussi, Ministero Africa-Italiano Rome. I now enclose a letter to the Surgeon-General, and shall be glad if you will kindly forward it, along with a recommendation. If you think my letter requires any modification, I shall be glad to alter it according to your

I am, etc.
(Signed) E. MUTR.

Medical Secretary.

Surgeon-General Andruzzi, Ministero Africa-Italiano, Rome, ITALY.

Dear Sir,

I am writing as the redical Secretary of the British.

Empire Leprosy Relief Association regarding the question of co-operation between the Italian Government and that of British Somaliland in dealing with the problem of leprosy es it affects the two countries, and especially the torderland between the two countries.

at the request of the Government of British Somaliland and the British Colonial Office, I recent_, ps_1 a visit to British Somaliland to study the leprosy problem there. I enclose a copy of the Report which I drew up after discussing the matter with the Governor and Dr. Bell the Senior Medical Officer of British Somaliland. You will see from my Report that the leprosy problem in the two countries is intimately connected, especially as-there is a great deal of coming and joing between Abyssinia and the southern part of British Somaliland, and on account of the reported high incidence of leprosy in the region round Harar.

Dr. Bell, who is home on leave, and I, have discussed the matter with Sir Aldo Castellani, and Sir Aldo advised me to write to you explaining the dircumstances and asking your cooperation. He also suggested that it would be advantageous if Dr. Bell could visit you on his way back to somaliland, about April, 1939. I think that if leprosy the ne corderland between Abyssinia and British somaliland is to be dealt with effectively it will be well for the administrative and medical authorities of the two countries to discuss means of joint action, and seek to co-operate as far as possible.

I shall be glad to give any further advice that I can in the matter.

'I em, etc. (Signéd) L.MUIR. Medical Scoretary

Bar

Dr. E. Muir.

I arrived in Kakamega from Uganda on the 6th of June, 1988: On a the 7th and 8th June, I visited the Leper Camp in company with Dr. Haines, and examined the patients and buildings. I found 170 inmates, 150 being patients and 20 children without signs of leprosy. I classified, as below, the immates into five categories, and sub-divided these under men, women and children; deformed and undeformed. The five types were: (a) open lepromatous (L2 and L3), (b) doubtful lepromatous requiring bacteriological examination to confirm, (c) with distinct tuberculoid patches, (d) with flat macules, (e) with no active signs.

TYPES.		ME N	WCMEN.	CHILDREN		FOTALS.
(d	2 & L3) eformed) ndeformed)	9 7	2 7	-	*	11) 14) 25
Doubtful Lepromatou	s (deformed) (undeformed)	13 10	6 3			19) 13) 32
Tuberculoid	(deformed) (undeformed)	13 9	13	į		17) 23) 40
Flat Macules.	(deformed) (undeformed)	13	- 18		a samuel Tarimie	25) 14) 39
No active signs.	(deformed) (undeformed)	6	5	20		11) 23),34
	TOTALS:	99	60	21		170

One in six of the patients might be considered highly infectious. Probably one-third of the whole were infectious to a greater or less degree. Eighty-three were deformed and sixty-seven showed no signs of deformity. Many of the patients showed complicating skin diseases, such as scables and tinea, the treatment of which would probably cause amelioration of the condition. The patients cultivate some of the surrounding land so as to supplement the diet supplied at the Camp. Some of from appeared strong and healthy, especially those engaged in active work. Later in the report I have added a note on the treatment recommended. There are certain paid posts given to lepers in connection with the Camp: 1 Dresser @ Sh. 15/-; 2 Sub-dressers @ Sh.7/6; Headman @ Sh. 12/-; Teacher @ Sh. 12/-; tyah for young children @ Sh. 5/-; 2 Builders @ Sh. 8/- each; 1 Dhobi @ Sh. 5/-; 6 Labourers @ Sh. 2/-. The Camp is supported by a Grant of £160. a year from the Local Chiefs' Council, and £330. from the Medical

The daily diet allowance consists of Mealy-meal 1 lbs., Chiroko beans 6 ozs., salt 2 oz.; there is also 8 ozs. of meal given twice weekly. This diet is supplemented by the agricultural produce of the patients.

Seventy of the patients have been in the Camp for 5 years or more 31% of these have deteriorated, while 69% have improved or are stationary. The patients are housed in mud and thatch hats. The general sanitation of the camp is fairly good, though there eppears to be a certain amount of overcrowding.

of the 21 children, 8 are with their parents in their huts, and 13 are in a small creche where they are looked after by an African ayah. These latter appeared to be remarkably healthy: they are from only one of the children (one in the Camp) showed definite signs of leprosy - a tuberculoid lesion.

The Camp is situated within a few hundred yards of the General Hospital. This has the advantage of facilitating medical supervision, but it is too near the town and there is no room for expansion. I would suggest, for the imprevement of the Camp as it exists at present akin with cheep bland oil, sulphur being added when necessary; encouragement of the patients to more frequent bathing; or prisation of exercise and especially of various occupations; caroful selection of cases for special treatment; the tuberculail makes about do particularly well with intradermal injections

I wont into the question of the adequacy of the present Camp for dealing with leprosy in North Kavirondo. Recent returns collected from Chiefs makes the number of lepers 450 outside the Leper Camp, but it is possible that this is an underestimate. According to these returns, leprosy is chiefly concentrated in the western locations, especially in Marach, Buhaya and Itino, which have respectively 42, 111 and 80 lepers, more than half of the whole. I am told that while the eastern tribes of the district dread leprosy and drive cut the lepers, those in the west are more indifferent. This is a possible explanation of the relatively high number. I went, in company with Dr. Jobson, the Medical Officer, to Marach, where we not a number of Chiefs and members of the Local Native Council, I explained the nature of leprosy and, as an example of what might be done to control the disease, I described the methods adopted in the Soroti District of the Eastern Province of Uganda. There, at Ongino, a settlement has been formed by Miss Lang, a trained Nursing Sister of the C.M.S. Mission. In this Settlement there are 400 lepers, 350 of whom support themselves by their own agriculture. Miss Lang has also formed a Leper Children's Home at Kumi, 3 miles from the Settlement; a shildren's home where there are 350 children who, besides receiving treatment, are being trained as carpenters, builders, tatlors, nurses, teachers etc. In addition to this, there are about 350 lepers attending as out-patients. Model houses are constructed in both institutions by lepers themselves under Miss Lang's directions. Most of the paties show satisfications of recovery due, partly, to requise treatments. but chiefly to good diet and constant healthy exercise. Well-planned and sanitary houses are constructed by the lepers under Miss Lang's supervision. These institutions are run on the very best liner and are second to none that I have seen in Africa, India or elsewhere. I would suggest that those concerned in leprosy work in Kenya should pay a visit to Miss Lang's institutions and study her mothous. Those Chiefs and others whom we met at Marach showed much interest in the problem of leprosy, and asked many thoughtful questions about in

Obviously, the present Leper Camp at Kakamega, though useful to segregating a certain number of infectious lopers, does not get dear to the root of the problem. To do this it would be necessary to admit far more of the lopers in the district. The present Carp is more than full, and it would not be advisable to increase its present size because of its proximity to the town and the absence of sufficence of cufficence that the company is the company in the company is the company in the company in the company in the company is the company in the company in the company in the company is the company in the company in the company in the company is the company in the company in the company in the company in the company is the company in the company in the company in the company is the company in the company in the company in the company is the company in the company in the company in the company is the company in the company in the company in the company is the company in the company in the company in the company in the company is the company in the company in the company in the company in the company is the company in th

The most suitable plan seems to be to begin a new agricultural settlement on the lines of that at Ongino. Such a settlement, if the lepers of both districts, as there appears to be a considerable amount of leprosy in Central Kavirondo, though probably less than i, North Kavirondo. In choosing a suitable site, there are certain point to keep in mind: - (a) sufficient land for building and cultivation; (b) sufficient water; (c) a healthy site; especially as regards or large villages; (f) proximity to a mission which will supply or ment a success, there must be a suitable, trained, whole-time European worker.

I discussed the matter with the Medical Officers and the District Commissioner at Kakamega, and later with the Provincial Commissioner, District Commissioner of Central Kavirondo, and the Sector Medical Officer at Kisumm. It was suggested that a suitable site might be available at Bukura, where the present Agricultural training school is situated. It is understood that there is a proposal to move this training school to another site. If this takes place, several hundred acres of land, two permanent houses, and a large number of lauts would be vacated, and might be available for a leper settlement. The site is healthy and only some 24 miles from Kakamega. It is about 10 miles from Buttere, where there is a C.M.S. Station, with a teachers' training school.

I suggest that, if this site is available and the C.M.S. Mission is willing to co-operate, the B.E.L.R.A. should be asked to supply a suitable trained European health worker, similar to those who are so satisfactorily doing this type of work in Nigeria and elsowhere. His salary, which would be on the scale of that of a missionary, would be paid by the administration to the mission for this special purpose. The site is in North Kavirondo, but near the border of Central Kavironde. The settlement would be available for lepers from both districts. The expenses would be met by the Local Native Councils of the two districts, and by a grant from the central Jovernment. The able-bodied patients in the Kakamega Camp would gradually be in the Camp. Once the settlement, only disabled patients being retained with able-bodied, hopeful patients, some of the disabled patients might gradually be transferred, till the Kakamega Camp cound be finelly to the settlement.

In addition to its effect in controlling leprosy, I would point out the importance from a general sanitary and from an agricultural point of view, of a leper settlement such as that at Ongino, on the lines of which I suggest that a Kavirondo Leper Settlement be formed by the Sanitary Department, and farming the land under control as advised by the Agricultural Department. Many of the patients, after spending some months or years under these conditions, would recover and return to their own villages, carryin; with them improved methods.

On June 11th I crossed the Kavirende sulf to Kendu, in South Kavirende. There I visited the Leper Camp attached to the S.D.A. Hospital, in company with Dr. Madgewick of that Missien, and Dr. Carothers, the Jovernment Medical Officer, There are now only 12 patients in this Camp. 3 of which are highly infectious as a set.

lepromateus type. Dr. Madgwick has suspended admission of new cases pending action by Government. I discussed the leprosy situation with the doctors and with Chiof Faul Umbova, of the Karachuonya which has a population of about 30,000, but he considered that there were many others, probably 500, in the location. If the latter figures are correct, it would make an incidence of 1.7 per cent. The to 25 years ago people dreaded leprosy and drove out the lepros; now, they no longer fear the disease to such an extent, and the butes the high incidence and the increase of leprosy.

I described the Ongine Settlement, referred to above, and Dr. Madgewick said that his Mission would be willing to same on work or similar lines if the expenses were supplied. A suitable site for a South Kavirondo settlement was discussed. It was considered that suitable land would be available about 30 miles from Kendu on a site lying south of the road to Kisumu, between Oyngis and Mirit River, and near the boundary between South Karachuonya and Kisii. I discussed the question of this settlement later with the Provincial Commissioner and the Senior Medical Officer. They agreed that suitable land might be procured in this position and that the site would be healthy and have sufficient water.

The opinion is held by all whom I consulted that the people of South Kavirondo would not be willing to go to a settlement in North not, likewise, be willing to go to a settlement in North not, likewise, be willing to go to a settlement south of the Cult. Two settlements are, therefore, necessary to deal with the control of the disease.

For one in the north, there would be little need of capital outlay at least at first, if the site mentioned can be obtained. But judging from the figures at the Ongino Settlement, an expenditure of about 5500. a year, addition to £250. a year for the Hogith Worker, would be necessary.

For the southern settlement there would, in addition to a similar yearly expenditure, be the need for at least £1,000, of capital outlay for buildings, apart from any expense that there might be for a coquiring the land.

As a stranger to Kenya, I feel diffident in putting forward the above suggestions. The opinion has been expressed that as the general will gradually die out. I should, however, suggest that the other view be carefully considered, whether the establishment of one or two of improving general hygiene.

LEPROSY IN KENYA

(Part 2.)

Dr. E. Muir.

I arrived at Nairobi from Kisumu on 14.6.38. In the afternoon Invisited the Infectious Diseases Hospital with Dr. Martin. There are 8 lepers in this hospital at present, 6 of which are advanced open (L.3) cases. They receive symptomatic treatment as required.

On 16.6.39 I set out by motor to visit the Nyeri and Meru Districts at the foot of Mt. Kenya. At Tunutumm I visited the Church of Scotland Mission Hospital under Dr. Brown. There is a leper ward at a short distance from the hospital with 12 lepers, of whom I saw 10. Of these 6 were advanced open (L3) cases, and 2 showed Tuber-culcid lesions. Only one was a woman. Dr. Brown had recently persuaded the patients to take more active exercise, cultivating the garden and keeping the roads clear of weeds etc. The majority of the patients, however, looked as if they required more exercise. The patients are lodged in a neat stone building divided into several rooms, two patients being lodged in each room.

The next day I went to Chogoria, where the Church of Scotland have a hospital under the charge of Dr. Irvine. There is a small leper camp at a short distance from the hospital. There I saw 15 patients, other 5 being absent on leave. Of these 20 patients, 9 were advanced lepromatous (L3) cases, I was slightly infectious, 9 had tuberculoid lesions and 1 had no active signs. Dr. Irvine gives special as well as general treatment to the patients and several that already recovered and returned home. The patients are lodged in two buildings with separate rooms, the one building being used for infectious and the other for non-infectious cases.

Both at Tumutumu and Chogoria, one of the chief difficulties is to give the patients sufficient work and exercise, occupation therapy being the principal part of leprosy treatment. Their erable land is at present not sufficient and more is difficult to obtain. It is difficult to keep the patients actively employed without constant supervision, which it is difficult for the Doctor, with his many duties, to supply. To make a leper settlement successful (as mentioned in the former part of this report) it is necessary to have a European whole-time health worker in charge, and to have the settlement sufficiently large (200 to 400 patients) to justify the employment of such a health worker.

The question arises whether there are in the Central Frovince sufficient lepers to justify the formation of such a settlement. Most of the Medical Officers whom I questioned were of the opinion that the incidence of leprosy in the Central Frovince is considerable, though less than in Kavirondo. I would suggest that a leprosy census be undertaken, similar to that carried out in Northern Kavirondo. This could be done with the aid of the Chiefs, Medical Assistants and others, and the Missions could gather information by means of their Medical Assistants and school teachers.

If the incidence is found to be sufficiently high, say some 2000 cases, then an agricultural settlement similar to that recommended for North and Central Kavirondo, might be formed on a healthy site where sufficient arable land and water are available. The site would have to be central to the highly endemic areas and within reach of a Medical Mission which would undertake supervision.

On 20.6.38 I went to Mombasa by train. The next day Dr. Proctor arranged for me to visit the leper camp at Mambasa!, round the camp by Dr. Wright, the District Medical Officer. It is about 2 miles from the hospital and is visited by the Medical Officer is in immediate charge. I examined the 42 patients and classified them as follows:

		0143311160			
		Mon	Women	Totals	. 84
Open lepromatou (L2 and L3)	s (deformed (undeformed	16 8	2	18)	26
Slightly infectious (L1)	(undeformed	1	0	1)	5
With tuberculoid lesions, non- infectious.	deformed (undeformed	4 C	0	4)	4
With flat macule non-infectious	s(deformed (undeformed	0	3	3)	5
With no active lesions.	(deformed (undeformed	0 -	0	1)	2
	Totals .	33	9	42	.9

Seventy per cent are infectious cases and 62 per cent are highly infectious. Nearly two thirds are deformed to a greater or less extent. At Kakamega only 16 per cent are highly infectious. From this comparison one may surmise either that leprosy, in the coastal area is of a much more severe type, or that the less infectious types of patient are not attracted to or not retained in the camp. Sixty six per cent are deformed as compared with rifty-five per cent at Kakamega, which would indicate a more severe type in the coast region.

Nineteen patients were admitted last year, of which e were re-admissions and 13 new admissions. There were 9 deaths, 5 were discharged as non-infectious, and 4 absconded.

About half the patients are Waduruma. This, I am told, may be partly the result of the leper camp having been formerly in Waduruma territory. It may also indicate that leprosy is more common among the Wadigo, especially as the camp is now in Wadigo territory and the Waduruma have a considerably longer distance to travel. Almost half (20) of the patients are from outside the Administrative District, 8 being from Tanganyika Territory, the border of which is

While a careful survey is necessary to ascertain with any certainty the extent and nature of leprosy in the district, the indications from the above figures are:-

- a. That leprosy is a prevalent disease in this area.
- b. That it is of a severe type.
- c. That there are many lepers of types that spread the disease, still at large among the community.

- d. That few early cases of leprosy seek admission to the leper camp.
- e. That the great majority of those who are admitted to the camp are patients who have sought shelter only when mutilated or disabled, after having been a source of danger in their homes and communities for many years.

On 23.6.38 I visited Kaloleni with Dr. Clark, the District which communication is station is over 30 miles from Mombasa, with At Kaloleni, in connection with the Church Missionary Society Hospital, there is a small leper camp. Dr. Allen, the Doctor-in-Charge, was as locum. Eleven patients are at present in the camp, all of them males. These may be classified as follows:

Open lepromatous cases (L2 and L3)	Deformed.	Undeformed.	Totals.
Slightly infectious (L1) With tuberculoid lesions.	<u>1</u>		1
With flat macules.	-	1	1
With no active signs.		gages - 2 of other	2
Totals.	7	4	ii

The spirit of the patients seems to be one of passive inactivity. Only two of the patients would at present benefit from special treatment. I understand that there is plenty of leprosy in the district. This was shown by the fact that a few years ago, during a time of famine; 100 lepers were admitted. I understand that mere patients are not encouraged to some to the leper camp, partly from lack of funds, the expenses of the samp being met from private.

I had an epperbunity of discussing the question of leprosy control with the Previncial Commissioner and the Senior Medical Officer.

After studying the condition of leprosy in the coastal province as far as is possible during my brief visit, I would offer the following suggestions. In my opinion, leprosy seems to be a serious disease in this region. The two leprosy institutions at Msambweni and Kaloleni remove a certain number of the open cases from contact with the community, but this is not sufficient to control the disease to any great extent.

In the former part of this report I have recommended the formation of a central leper settlement for North and Central kavirondo, to be conducted on certain definite lines. I suggest that a similar settlement be formed for the Coastal Province at some central and otherwise suitable place. The same requirements would apply as in the Lake Province.

a. Sufficient good arable land; probably a thousand acres would be necessary for 400 patients, the number that should finally be aimed at.

- b. A healthy site, or one that could be rendered healthy especially as regards malaria.
- 6. Sufficient water for agriculture and personal use.
- d. A whole-time trained European worker, similar to those sent out by B.E.D.R.A. and Too.H. would be attached to a local Mission to undertake this work, and his salary etc. (£250 to £300 per annum) would be met from Government or L.N.C. sources.
- Medical supervision by a Mission or Government Doctor; a visit once a week would ordinarily be sufficient.
- f, Self+support would be aimed at as far as possible, but adequate initial and recurring grants would be necessary.

In such a settlement great care would have to be exercised by the types of cases first admitted. Patients should be attracted by the hope of recovery, and only hopeful cases, who would give active co-operation should be admitted at first. Only one of the present patients at Kaloloni, and a small proportion of those at Msambweni, would fall into this category. I believe, however, that suitable patients could easily be attracted from the cutside leper population, and once the actilement had been established upon the right lines, other patients from the two present camps could be drafted into it. The remaining patients in these camps would gradually do out, when they could be closed down.

For further details of the methods of running a leper settlement, I would refer again to the a well-int work of Miss Lung in the Eastern Province of Uganda.

I have recommended that the control of leprosy in Kenya of agricultural settlement, under a whole-time trained European, working in conjunction with a local Mission. Three or four such settlements would be necessary, viz. two in the Nyanza Province, one in the Coast Province, and, if the incidence is shown to be sufficiently for all these settlements are not at first available, a beginning should be real with two, one in the Nyanza Province and one in the Scatal Province. I would also suggest the formation of a Kenya Branch of the British Empire Leprosy Relief Association, similar to those in Uganda and Nigeria, which would co-ordinate any anti-leprosy activity throughout the Colony.

Treatment. I have been asked for particulars of leprosy treatment by several doctors in Kenya, and the following note on this subject is added.

The chief emphasis should be placed on general treatment; suitable dist, treatment of accompanying diseases, attention to complications, improvement of physique by suitable exercise and especially by occupation.

The best drugs for special treatment are hydrocarpus oil and its esters. Expensive preparations of these are supplied by British, German and Italian firms. But where large numbers of patients have by be treeted and expense is an important consideration, quality and effective value being at least equal to that of the more

expensive proparations.

Hydnocarpus Off supplied by the Errakulum Trading Company in 4 lb. this, and has found it most satisfactory. When the time is opened the oil should at once be bottled in bottles of suitable size filled to the neck. Exposure to air renders the oil painful. It may be mixed with pure creosote to the amount of 4 per cent, but this is not entirely necessary. After bottling, it should be sterilised, preferably by heating to 120°C. In an oil bath or autoclave for half an hour. Another method when creosote is added in three successive days. Whatever size the bottle is used, it is well not beave a partly empty bottle standing for more than a week, as the oil tends to become irritating when thus exposed to the air.

Care should be taken in selecting suitable patients for special treatment. Only those who are physically fit and of good physique can tolerate any but the smallest doses. Those with good physique will tolerate 6 to 12 c.c. given once or twice a week. This may be given intramuscularly or subcutaneously in divided doses, the needle being partly withdrawn and re-inserted several times, and 1 c.c. injected at each point.

Intradermal injections are particularly useful in macular cases, especially those of the tuberculoid type, to I minim being of a sixpence. An area of 4 square inches may thus be infiltrated at each stiting. Care should no taken that the oil does not pass under the skin.

Hydnocarpus oil is viscid and should be injected as warm as the patient can tolorate, so as to render it less viscid and more suitable for infiltrating the tissues. Re-infiltration of the skin should not be made in any area before 4 weeks' time.

Painting with a 1 in 5 solution of trichloracetic acid is a useful admins to intradermal injections. When the solution dries painting should be repeated once or twice until a slightly white appearance is produced. As this solution loses strength when kept, it should be made up freshly at least once a month.

I would suggest that hydnocarpus oil be imported from the Ernakulum Trading Company, or some other reliable Indian firm, by the Uganda Medical Department, and that this and pure creosote and trichloracetic acid crystals be supplied to leper settlements either quarterly or twice yearly. Hydnocarpus oil should not be stored for more than a year, as it is apt to become painful and unfit for injection.

I would express my thanks to the Acting Director of Medical Services for arranging my tour in Kenya, and to acknowledge with gratitude the hospitality and help which I received from him and from Government Medical Officers, Missionaries and others, who spared no trouble in making my visit interesting and profitable.