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### COLONIAL ADVISORY MEDICAL AND SANITARY COMMITTEE

Circulated for Femarks . Digits.

REMYA SMALL POX

Report on the west of theman of higher The is a country fund of the Dr. Rutherford

23. 4 25 Received. 25.4.25

a very good outership seport. It would me Dr. Lege .... Received the that all want of the the of de

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Sir William Prout.

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When circulation is completed please return to The Clerk, C.K.M.S. Committee.

GOVERNMENT HOUSE

AH SOTHER MENTS. 1925

I have the honour to transmit for your information a report by Dr. H. S. Ac. Boor w. C. Medical Ofdicar of Health Hombasa together 1th the covering of the Principal heatcal officer on the recent surfresh of Smell 1907 at Kombasa.

The reportediscloses excellent work by the Medical Officer of Health and the Medical Officers who nestarn in accepting with the outbreak ooth in Kombasa and the Coast Destricts and Dr. de Bost in particular and the Medical Department in general are to be oungraphitated on the plome, and effective measures fath wary taken to control the outleak; the discoverings, rendered by massionemen and the creas to which Dride noor resers on affects of alls report to very granifying An regards the lengons to be Teamnt from this outbreak there is no could that the most dangerous sanitograf infection is India and on the advice of my resuring Council I approved in March Last the principles that are on shall or case, where messengers when tions ed and 64 or the reuting fleat in circle mice. 102

to restrict the landing in whits colony and Profestorate of persons who have not been vaccinated ; such action

Health authorities by Proclamation by the Governor-in-

to be taken in each case on the recommendation of the

Council In this connection I would refer to correspondence ending with Mr. Churchill's Confidential LIGHT HOMOURABLE

TEUTENANT COLONEL L.C.M.S.AMERY, P.C., M.P. DOWNING STREET, LONDON S. W.

Consessora chairtings

despatch of June 28th 1921.

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The is contained with sor produce; this ever nightly top the care and drawing and consequent, clean interpretation and consequent, clean interpretation and consequent,

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Sir

Your most opediest, numble servant

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ACTING COMMENOR.

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TAT HOUSE

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research of the property of th

2. Disting the control in the control of the contro

3. I httpen alou a stort note thick may been prepared by the Senior Africatiologist with regard to the steps which very taken at that institution in order to agent the increased domands for only lymph, which very made as a parent of the guardness.

4. With recent to the butbreak in Mombasa the solitont points which applied by noted in the Medical Ciffeer of Mealth's Report are he follows:

The Carlo

(a) That Hompand actown of between 40,000 and 50,000 Annabitants had for practical reasons become

- been free from Smallpox for about five years

  (b) That is, the above account and on recount of the abanding nature of the population the reaching condition of the inhabitants was at the beginning of the year ungularisactory.
  - c) That the infootion was probably introduced from India early in January.
- (c) That within a wook of the discovery of the first case of mallest on 21° supposer, and 5.0° supposers that the femalist out that the Campuign was carried and outsided any opposition on the part of the population.
- (e) That only one person was admitted to assurt as an the result of the effects following too-
- (f) That he the date of witthy (1886 July)
  Hombride has been entirely from from Smilled's
  conce the 5th of June.
- (g) That adequate facilities for the trentment of cases under the supervision of trained Suropean Sureing Sisters were provided for the members of all races.

remain confined to Hombane and a number of email outbreaks mayo occurred in other districts. As no general epidemic of Smallpox had occurred in the Colony since the opidemic of 1916 - 1918 and the vaccinal condition of the general matige population was unsatisfactory the possibility that a serious epidemic might be occasioned gave rise to considerable anxiety. Such fortunately has not so far occurred and it may be of interest to give a short account of the steps which have been taken to deal with the outbreaks/

brenks that have none to notice and with the general

- (6. Dutbrais of Smallbox resulting from the Occurrence of the Disdass in Momnass.
  - I. A number of geogo occurred to the Unitaria

    Districts in the Myleobourhood of Regular,

    A Magical Occident was nest on took throughout

    angle Sings his and Africa occurred to the Magical Africant of the Magical Occurred of the Magical Occidence of the Magical Occurred of the Magical Occurre
  - II. An unitered leverting mode 20 sever occurred in the forte District, allegies, Officer, and despatohed, inveloped in the argulator's month and racingted, east 13,000 persons.
  - If In the 13th of April h canc of Englapoz wer

My vy Province and w fee days later furnish

The odeurrence of puber ness to notice. Smallfor to this area mate vines to view out olderable nurless as the Province in huset is very denedly populated. a phorectio 522020ation osminal ar les at once commonade by the Madical Officer of the District Ur. R. A. W. Prooter and the Absistant Die trict Commissioner, Mr. Marchant and by the end of May 66,284 vaccing tions had been carried out. The minust of cases we limited to 34 with 9 deaths and no case had occurred since the middle of May. Mr.F. and Mr. Marchant are to be congratulated on the officient and rapid manner in which the pecured the vaccination of practically the entire population of a very thickly inhabite

IV. A small outbreak involving 19 cases occurred
on home Para

district.

on Emma Ioland on the Chart towards the oneof March which was benit F. The by the Aust.

7. At the date of waiting the Colony would

appear to be free from Unalipos while in the Prosectorate the only area where the infection remains to the thinly populated Epale-Unhala area some 27 miles could be Vanimer from Thich a few cases have a sensity been populated. This infection is bring depth with the interpent Unitative is not one has been posted there is physical the value of the population.

B: Since the first consent of the dispute beginning and consented out in all the total level of the country and a poblic exidence are the total level of the country and a poblic exidence are the country and a poblic exidence are the country and a particle of the country of th

The transportant winds of the post to the series of the the series of th

the native population has shewn is in considerable part due to the confidence in European motheds of medicine which has repulted from the success which has attended the anti-yaws omphism of the past few years. Though, Smallpox may be quiescent for the moment and hearly quarter of a million percons have been recently vaccine ted the point to be remembered is that of a total population of two and anhelfmillions gong two and a quarter millions remain unprotecte to ensure the protection of this large number with the propant start to not feasible and the puchautty for the increases which have been advised for the year 192 15 4 A further point of importance is that dies it ? olvious. hoe bean proved that provides staff be available the multie population was be made to attend for vaccination in very There humbers it will be necessary in future always to maintein a much larger supply of vaccine lymph randy for not time one been considered becomenty in the past

I have the honour to be

Your spedient servent

PRINCIPAL MEDICAL MODFICHR

## REPORT ON THE LABORATORY OUTPUT OF GALF INAPH DURING THE INCALLED K

mpidauid Jan - April 1925,

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This property number of docest out lymph population to perfore stations from 1921 to 1926 and been 19,200 per month. To maintain this supply aid a 1986 took of 100,000 doces in reserves, ton orders per many the reserves to orders per many the reserves to orders per many the reserves to require the stations.

the cair lymph buildings were two consugated live about the first being boos the volume areas and the choose already requires and the choose already requires the second sheet avoiting return to the native reserve. He second sheet companed three reces, apreparent ou room, and a row containing four shells for resoluted convers more stop two atolic to the first shed for resoluted.

The chaff consisted of one india haboratory

April (Differen) who did this work in addition to
properating the outture medic. One boy elected the chode
and fed the outton and three other boys who helped
chen required in addition to their other duties. The
Chopstation of lymph was controlled and suppressed by
one of the Bostorial addition. The maximum possible output
of calf lymph from these buildings and with this staff
was 60.000 down por month.

Following the outbrook of smallpox in Hombash, there was a greatly increased demand for lymph from every station in the country. Further outbreaks occurred in the voi district in March and in Fort Hall district in April.

The total midter of doors supplied to all stations during the fair months saming to April 1985. Ace beam 250,000, or 55,000 per month, or seven times the normal output.

Remained district reacted 107,180 desce from James to April, vales being supplied between 26th James and 10th Rest. us district was supplied 25,600 between 10th March and Min Ap., June Fort Hall district was supplied with 49,000 descent between 10th March april and other 10th.

in all 192, No. doner supplied to the optionic particle, and 79, 250 dones is the sect of the country in four months.

To natural this apply 55% old done of vaccing lymph have been proposed from lamings to April has.

I ymph have been proposed from lamings to April has.

Ind hundred selves have been vaccinated, with a vaccing yield of \$300 doses per large. The present reserve attack to 50. Bill discout the secrete attack to 50. Bill discout the secrete attack to 50 minus.

The apply of cityes has very invalidate for the large and of the year 1824. The while fellilation of files, has and of the year 1824. The while fellilation of files, has an acked for a supply of 30,000 doses per wook to be impresented, in addition to the mount leaved on a routine to outstation in non-opidemic breas:

The following stope have been taken to maintain this supply.

#### 1. CALVES.

A greatly incremed number of colors and required, application was made to the District Commissioner Rymbu and the mesonery supply his arrived regularly. In

this connection hasor tray to had has been invaluable and without his argistrace the couply of oalf lymph could not have been maintained.

#### 2. BUILDINGS.

Additional communication was required. With the existing buildings it was possible to keep page pith the numbers anidento and to increase the supply to the other stations, Is was not possible to salining o religion apply, and in the event of a large outbre and half and liver could not how been produced. A cell obelter which appeared over forty galves has been erected, this is used for parting colven one those alreedy vaccinated. The ches providually wood for this purpose has been converted into a thed for vaccinated outros, and there are now stalls for 14 calvos The narimum output of olds typoh per month has now inore-or from 00,000 doses to 175,000 dones. and it is hance that in a few months it will be negotal to municipal a reserve supply of 500,000 doses, which in the light of the experience gained from this opidemic is the minimum recerve to be East for emorgencies.

### 3. STATE.

The stuff employed has hed to be there eads

- (1). The larger number of culted to be cared to and valuated.
- (2). Heny orders for lymph errived delly, this moent that packing and despatching went on continuously instead of lymph being cent out on regular days, as previously.

(3). The number of our lliary fulpes to be acaled was greatly improceed. A Besteriologist and the met of the color of the to Cultone of h 1 20 aprote become at come antipo ellore a thom oranged Monuted had in most sade to be refued. The other work in the leberatory of so suffered owing to how of copervicion and last of staff. of frequently wary svellable buy opent the greater part of the dep outing emiliary tubes. Three new bure hove beer engaged, and aime the process of the you shed the Indian Emboratory and of the life word his whole time properties white the said

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MEDICAL OFFICER OF HEALTS.

MEASA, 2815 AS

HEALTH OFFICE

W О W R AVB A. 28th мау, 1925

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I have the honour to be

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Your obediont servant.

MEDICAL OFFICER OF HEALTH.

# HISTORY AND DETAILS OF AN EPIDBAIC

#### . PACE HISTORY OF SMALL-POX IN MONBASA

In 1904, twenty one yours use that the tree on 1908 he had been the product in Association of the telescope.

IN the trade expect their executions are restricted and it is arread 2.188 vaccinations were done. Although the less that the first executions in a month of the second on another in the restriction of the second of the second

There is no evidence that very netton with call lynch was refrired here before the diriting of page.

British, but incomistion recessive characters will recorded to and was evidently fairly popular.

No cases of small-pox were reported in 1910 and 1911, but in 1912 a semicus solitoreac was respected.

295 cases being notified. The outbreak lasted almost all through the year and 33,150 vaccing brank are reported; as faving been done, native vaccing to a report of to do the vaccinations. The disease that your was first discovered in March and it was presumed that the infection had been imported from Arabia. In March over 4,000 vaccinations were done, but the disease continued to smoulder, a few cases being reported each month and becoming epidemic in August and September when 71 and 126 cases respectively are recorded.

That case was removed to isolation and was followed by no further cases.

Last dear was fenerable because not only did Combaga remain free, but as far as was known no mail por was reported anywhere in the districts around,

# THE VACCIDAL COMBILION OF THE POPULATION PRIOR TO THE OUTBREAK

The resords given above now that there have been large vaccination lampaigns in Mombasa in the past, sepacially in 1916 when it is reported 76,116 vaccinations were done in the Island and the districts around, and again in 1919 and 1920 when 12,414 and 27,192 recognitions were reported perfermed respectively.

in spite of the these compaigns knowledges of one time of the present outbreak a very large hunder of people in Mombasa improfected, due chiefly is inc.

- (I) There is no compulsory Birth Reg. stratton and hence no vaccination of infants carried out.

  (2) The population is at the main lethnicite and will not inconvenience themselves or their children by bringing them for vaccination unless there is a macare of small-pox.
  - The a changing one, and consists of numbers of Africans from all over the contry, who come here in search of work, and after a year or flonger return to their Reserves, a few, however, remaining permanently. A vaccination campaign at any time catches the natives in the town at that time, but needs to be repeated wholeheartedly the next year if the population is to be maintained protected.

#### I. THE PRESENT EPIDEMIC

#### (A) First Case Found

On the evening of the 23rd January, an African native, with a marked papular rash was brought to the notice of Assistant surgeon Mair of this Office.

Mr. Nair diagraphed the case as small-pox, and had the doy removed to the infect a Despace hospital, reporting action taken to median ediately it was no ad typraceeded to Infectious propages Hoop at anote proton firmed and diagnosis, and although their parts of the firmed and anyther proton and the case of the firmed and anyther proton, and anyther proton anyther proton and anyther proton anyther proton and anyther p

The patient a Rikuyu addit goe the following

He was a corvent to during your Jemal an Indian belonging to the whole lemalia tormum: what lived with his master's family in a building at the Edickup and of Commercial Street.

Restated that on the 19th as he had been feeding very ill for a day, he asked and obtained permission to live with a prising of this masterts, house and go out to live with a prising of this, also a kikuyu, at the Rest House of this indian Lohana Community off Kakupa Road. While living with his friend his condition got worse and on the 20th he notified a fine rash on his body, which steadily became more Sarked. He was nursed in his illness while lying up at the Rest House by his friend and two other Africans, but an his condition was, if anything growing worse, he returned on the 23rd with his friend to his master's house and reported; his master at once sending word to Assistant Surgeon Nair. He had never been vaccinated.

The night being well advanced no further action was taken, but the next morning accompanied by the Applicant Surgeon, I visited the premises in Commercial Street, which is one of the most congested portions of the densely populated old Town. The boy's master appeared just as mystified as ourselves where the infection had come from, and gould give us no information bearing on the question. He and his family were vaccinated and orioned to report daily at the Health Office. The building in which the case occurred who one of a big block of buildings and was occupied by reveral families. A poometer come was carried out, but no evidence of any infection could be found. All residents the familians were vaccinated.

The Lohana Bept House was next investigated, but here as expected no evidence bearing on the source prime investion could be obtained. The third Africana monitional perfers were the only people and appeared to live the premise, the these war vaccinated and removed to the investion Diseases Hospital and kept under observation there; it is interesting to note mathons of these boys developed small-pox. Although two of them were presumably unprotected before being vaccinated.

#### (B) FURTHER CASES AND EVIDENCE THAT THE DISEASE WAS ALREADY WELL ESTABLISHED IN YOURASA.

The second case of small-pox was discovered on the 27th., this time again in an African, a native of the Rabai District, who was found after sunset wandering around the congested area in front of the Khoja Ismalia Monque. This boy too was in the papular stage and was judged to be in about the fifth day of the disease. He stated that he had only left Rabai on the 25th., walking to maxeral and coming from there to Mombasa by train and arriving here at night. He further stated that he only began to feel ill on the 25th., the rash appearing the

Before a body don be buried in Monbase it is necessary for the relations to chique a permit from the Police, the lowe such only on the receipt of a death sertificate ested by a nedical Practicioner, Ir h Medical Low Medicar bas seen or treated the case prior to deally a death contratente to nevally affect for from the chitee, and is issued by the Assistint Sirgeon or drace of the body has been inspect of request received partil 30 mm, for a death certificate as above, roycaled to as Sicistant Surger that is indian chi d and dies of hacros Dagies mall-por whis easy, sag in a house not gest removed from the house from shigh the first African had come. questions maked from the parents of this first little sass 24 90 od that it was known that Miripor sener of small-pox entered and another findland, and er though no defluite infligation at the more these cares more could bottle od, after predictive through a number of houses throe further cause were discovered. The Alrest of these cance was an indian child eight years of age, who then found van in the parly puntular stage its c. about the eighth day of the disease. This case was a mild one were the other two found, and in none of the cases could the source of infection be traced and not one had been out of the Island recently; two of the capes were found in buildings not far removed from the house of the first case, it will be remembered, but the third was in the Kibokoni area a little removed, but mentioned by our third African case. The second of these cases an Indian girl of twelve was in the vesicular stage or about the

It was avident that hot day one of these same directory could have sixen rise to the general intention and directory could have sixen rise to the sential intention and directory could have sentend and directory could be didented about the intention have must have declined according a process the last and and athout a transfer a continual according about that and and ath as discovered.

produced of the property and the coursed public latter until the 7th of rebuilty, when the the property will read of property of the strat indian once found dead one sublitied, excelenting in this can had been see late a party the order aveloping multiples. The attention to be presented in the course of the property of the property

Oh the Gth of permany a further contact in the infectious Diverges Hospitals, the two-and-a-half year old prether of the indian sirl of twelve developing a very mild atthem, This amound only twolve papules.

Vadaination in this case was early enough to make the arthough the but, too laterto provent it.

On the Sthichlow was fetched in a case of small-pox in a contact of the second case enought the indians. This family had been allowed to remain at their house under surveillance, the drighal case having been removed to the infectious Diseases Hospital. The family, however, broke their surveillance and departed to the Hainland, but their departure being discovered they were brought back the next morning by car. This case too was mild in type. A further contact of case No.I. of the indians was moved across to the wards on the 9th., this case too proving very mild, vaccination about the sixth day of incubation not protecting altogether.

On the 10th Vebrusiy our first soffinite case from the Mainland was received. This was in an African and was brought in from Bungu, a set themset four miles from likeni Berry, the discase coing in the fifth or sixth day. Here history of daily contact with Mombasa Letand was obtained.

on the same day a hirther indian child was admitted in about the Arth day of Assame from a different position of the old stone rows.

Of the 11th further evidents, that the preblem inscriptions who to be agravable by concentrate of country agrain sections of the population, was for incoming in the discovery of nine inclusion chapt and one african in a nouse amongst the shambon at makings, this house was evidently being uned as a fightful site. The first indian engetional the shambon and including the first indian engetwee only discovered on a death from hermorehastic small-year and an end on the first indian child.

After the IIth Petricary dosen were discovered almost daily, the total number of cases admitted during the month to the infectious Discases Hospital being infection and Africans and one European.

# (C), DIBCOVERY OF THE SOURCE OF THE INFLOTION

It was not until the 2ft Tabriery that it was provided to find the 26aa, which it is devoted a far at our suidents as small post the office; a search was made in the office; a search was made in a rollication feat some United off Old Kildmann soul, and not been disopposed Distingue of small-fox in Indian on one in an Articen. The Indian constants placed the power and particles are the parents of small-fox in the conversement of power placed the distinct and the parents of the parents of the parents of the parents of the prices of the parents o

The parents with their children came off the Hitali, Co' 6 6. C. Ecrapare" on the cost of paper. femily were dit and well or landing but a on that come evoling one child need one-end-a-hat e votro, developed a forest the family put up in a religious heat house usingula retroughe at the volta Run and of Commercial Aright (Aero the to fant developed a reset and the family remained with the night following the hearth made in the appeal to bloom or buildings by the Assistant Burgoon end wiself on the discovery or the first arrivan case. Birling their in the real group pound mother child and developed with diacence, and the whole family including now two cames small-pex had departed on the 24th January to the Rest House aff Old Killn ain'l Bond, The other commanden gas found more still later developments in other families in the same Community. The Airloon open wee in a room Living in the garden at taghed to the nest house.

The enrices crass found previous to these cases viz; that of the indicated the infected between the 2nd and 4th of January was infected presumably from this case as also the first African case found, which must have been infected about the 7th of the same month.

The proof that our presumption is correct is that the first Indian case came from the next house and the African from the house opposite the first Rost.

Accepting this case from the 5.8. "Karaphra" as being the first case, and there is every reason to believe it was, the interview was imported into the interview ration was imported into the interview ration from Bombay. That his has not buppened before is burptions as small pox is endemic in hombay, and the hisportions as small pox is endemic in hombay, and the inceptation period of the discase is longer than the times taken by shipe in doing the journey from Education to make the months.

direct evidence of the continue dinger in at extrate in yombers of email periodists in treduced the mesuspectionly from londay was ortaled in the first of the day of the disease was discovered in an indicate child, one-and nine-iwelth years of ago, who had only come off the life. Its "levested from Bombay on the 14th, the disease has developed two days after arrived ness.

It might with some justicleation be pranched that even if werbasi will began for summer enough it has a second the care from the summariant into case from the Earagold filght being hive started an optional.

### (P) THE CASE OF SHALL FOR MY AN EUROPEAN

The only European case that has occurred during the epidemic up to date was in an employee of Mosers. Faulings hid., who was transferred from the European Hospital where he had been admitted on the 24th complaining of fever. The patient had only been vaccinated two days before and no source of infection could be proved. The case was hadmorrhagic in type and ended fatally.

Me de la company de la company

rio appendix civing details of cases will send his the cases continued to come in, the numbers of infections occurring, dropping considerably as the whorination campaign developed and the memeral population became brokes tad,

The continuence of cause right into may is

The mole population is not yet vaccinated, Individuals having availed vaccination, but paying the penalty by contracting the discase.

(2) That our afforts to maintain a vaccinated population is negatived by the African population of the same baing a continuously configurations.

A considerable improtessed population britting daily

from the various rective mater in the country.

Total number of cases admissing to the L. Diffort tal in-

Sanwary .... 6

Feb mary .... 58

Ma rch .... 46

APV11 ..... 18

May lat to 15th 5.

1. Total number of cases discovered after death

January

February 2

March

April

May Ist to 15th Ni

Total cases in Spidemio up to May 15th

N.B.

On the 23rd of May when this report is being completed, no cases have been reported for a week and it would appear that the epidemic is fast dying out.

#### (A) Cempaign of Vaccination

on the discovery of the first case, this office realised at one cities danger that existed at on epidemic of some magnitude decurring unless immediate action was taken to protect; the general population.

The first case, it will be remembered, had come from the much overcrowded stone Town, where families live the the closest configuity, and most buildings are of two or more storie, such estiting as residence for several willies. Conditions are easy, it thin area, that any issuitable discuss its apoly spread.

that he had been goving about the Town in an injectious
state and therefore the injection could not be considered
limited to only one area.

It was not known for many days wat so this distance was sufficient of general Languiples . Immediate around a water to confirm our opinion.

The directory of the necond and third cases and the Stories told by them further confused day and hampered considerably for a time our efforts to dept with the outbreak. The general mentality of the people this office has to compete with in attending to public health matters will be appreciated from these incidents as also the fact that no public health conscience exists amongst such as indicated by the wilful concedence of cases. The above to not an indicatent of the whole population, but of certain sections of it, who by their ignorance and habits constitute a grave danger to the public health.

On the discovery of small-pox in the Town it was decided that besides attempting to protect the general population in the vicinity of the infected area, it was necessary to take all steps to insure as little

finterference as possible with the working of the Port or which the life of the Town practically depends. donaidered this last could best be insured by enforcing the vaccination of all working in connection with it.

Under ordinary conditions, this Office maintains a stock supply of five hundred doses of fresh lymph from the Wairobi Bacteriological Laboratory. Two hundred and nity dobes of fresh Lymph are received wookly, and the remaining lymph from the forthight old supply destroyed or returned, on the 24th day of January, the Five B dones were agailable, and on the next day out stock was funcased by are airtual or a further two hundred and fifty doses. on the 24th a telegrem was despatched addressed LABORATORY MAIROBIA for therecoes supplies of lymph, but unfortungtely the tolegrems were delivered to the veterinary takenatory Rabade, and elithicuen Aurthor telegrome were sent they mot with the same fats and it was four days before any telegroup from here readited the Egyturiological Laboratory, and twenty four hours after that before lymph in quantity began to reach The Vaccingtion Compaign, actually began by the

protection of people, who were known to have been in contact with the first case.

whis completed, the whole staff of the Office and Infectious Hospital were instructed in the technique of vaccination, this being done by practising on each other ensuring at the same time the protection of all employed, who versitikely to come into contact with the disease. The population of Mombasa is officially estimated

at over 41,000, but generally this is considered a conservative estimate, and it is thought that the figure is nearer 50,000. The Vaccination Campaign started out with the intention of vaccinating this population as rapidly as possible.

The Starf having been trained, the next step in our campaign was to get the people to submit themselves to

Vaccination! .it must be remembered that the population!
Le sunnly Offental or African, difficult to move and
with fatilitie views on discass generally.

As a first step in getting at the people the floads of every Asiatic and Arab Communit, were approached by the medical Officer of Realth powerfally and arged to induce their people to have themselves protected.

Lacington was offered at any time and place that could be arranged for, provided people were splitted in surfacent numbers.

Wissionaries were appropried and asked to heavy by recommending vaccination to that congregations.

Principals and school-Teachers perspection of the of vaccination were made to their for children attending their schools.

The Veritous Coveringent Departments ors. Editor. Friden Public Works Department etc., employing large States.

The African Wharfage Co., The East African Lighterage Co., and neuris, Faultuge Ltd., all of shom employ large Staffs serv approached and ther aspectance requested in our compaign.

Last but not least Ur. Bolvin, the Editor of the Local Paper (The Montgone Times) was approached and invited to aid us.

The pressing denands for vaccination during the next few days, more than repaid this Department for the time expended, for one and all asked assisted to their utmost, and soon our difficulties were firstly, with our limited staff to cope with the demands made, and secondly, to keep ourselves provided through Nairobi with a sufficient supply of lymph.

At the biginning of the campaign our supplies often ran out and vaccinations arranged for had to be postponed. This was unfortunate, but could not be avoided

van the cutput of lymph from the Leboratory was limited.
Vanduation parties sear out to work always

consisted of an European or the Assistant surgeon and; two Abricans, Sanitary Inspectors, were taken temporabile of all possible routine work, and the reach Sister was contour attacks of all possible routine work, and the reach Sister was contour attacks of all possible routine work, and the reach of woman and contour attacks of the reach attacks.

Will B. H. C. Ruropean Hospital offered Li

deal with Europoins - bis offer rate accepted thankfully.

As the terminal for Anteination from

The source of the contraction of

which solles or around the state, we so a appearant to the first state of the state, we so a appearant to state, we so a appearant to by the Light state of the s

On this IN the Pebruary pr. W.H. Fisher arrived from Noirobi to assist this Office in carrying out a vaccination compaign on the Mainland. This up to then had only been attempted in the portions of the Mainland in the immediate vicinity of Mombasa by Sanitary Inspectors, who went out for a day into areas

from which small-pox/was reported. The arrival of Dr. Fisher made a systematic compaign possible, and working with the Administration and with Staff and lymph supplied from here, he dealt with the following districts:

Pungul Changanwe, Meritini, Mazeras, Rabai, Kaloleni, Ellifi, Thekanngu and Kwale;

By the 19th of parties after nearly three-and a-rai real rescination, it was appreciated that still about once, for the resulation remained unprotected and that of the resulation remained unprotected and that of the results of the relation remained unprotected and that if hepropreciated a large spidemia, to be prevented another comparing the results of the supplication of the results of the re

openiterion or, it was decided to the tech action under para. 2 or section 100 or the public section under para. 2 or section 100 or the public section 500 or the public section 500 or the public section 500 or threatened outbrook of analligor in any area. Logar authority may require all persons stain an area period to attend at cortain centres according to instructions is sujed/and to and organization or se-vectingtion as circumstances may require.

Hotices were published in the Local Press bod' in English and Gujerati, and the Town-crief was sent round anouting out the order in Swahili. The order which was signed by both the Resident Commissioner and Medical Officer of Realth, who conditiute the Local Authority, demanded that all not raccinated since the 23rd of January should present themselves at the Health Office between the dates 21st to 24th February, at the hours 8 a.m. to 12 noon and 2 p.m. to 4 p.m. The penalties for failing to carry out the order were pointed out viz: A fine not exceeding twenty five pounds and three pounds for each day of continuance of default.

When the notice was publiched ten thousands

dones of lymph were available et this diffice, and it was considered that this would be sufficient II was soon covident, however, that while members or the general coulation were apparently not assaided contracting mail-post, they containly hid not intend to run the glose o nois, third, The number vectored at the orner during the War days mentioned in the Order was 9, 468, while a fur ter 5,767 were done on the morning of the 25th, men the typich sandut, the office had to be closed down for receination until the part morning, when fortunately a further supply reached us from nairobi. It is interesting to note that on the 23rd, \$321 vocalinations ware done. It must be remembered in considering these figures and at other figures given that they only record wagging them son do not show the numbers of parsons seen on the various organions and exempted as having been recently protected. or as offewing definite marks of previous qualt-pox. A configure tive estimate of the people exempted would be twenty per-cent of the total modinated

numbroup requests were received from various letatic.

Communities for vaccination to be provided at various Mosques and Religious Institutions, these requests could not all be attended to in the time, but were dealt with as spon as pressure at the Office grew less.

By the 11th March, 43,169 vaccinations had been performed in the rown and allowing another 10,000 for exemptions and vaccinations done by various Medical Practicioners of which he record was received, it was considered that the population was well protected and that now no fear of an epidemic existed.

The Sanitary Inspectors were after this, taken off vaccinations and allowed to return to their ordinary duties, which in all districts had accumulated.

Williams, howard

Vaccincting, however, was not allowed to dro all togother, and the Assistant Surgeon with his team was sent to various districts carrying out vaccinations as required, and making house to house visits.

The dontinumoed of the epidenic life may is fors discappointing after our efforts at angularition but the majority of the cases now obcurring/anament possibly who have come in to the initial since our big assuming, and have not been to the trouble of getting memority prestated.

From the 28rd April, we attempted to stop people coming on to the litand appretected to of Arrivan vaccinators at leads of the perrison it was not penalule to provide in Eulippean for much tear, out Sant thry overgoor was put in charge of the whole well instructions to visit each toam at 1 bast twice douly. purths, the three weeks these trans have, been goiking, and up to the time of writing, 3,358, 13742 and 2,013. vaccinations have been performed reppectively, giving come indication of the numbers of people coming daily to the Island, At the same time as Feuries were obut meted Rutopena sanitary Inspectors were instructed to endeavour to carry out the vaccination of all mprotected people triving by brain, meeting whenever possible the traine Kilindini and Rombaga Stations. Unfortunately with the Staff profilable it was not found possible to undertake the meeting or all passenger trains. In all, up to date of wri ing 12/5/25, fifty five thousand, nine hundred and ninety eight vaccinations and re-vaccinations have been done within the Township, and twenty eight thousand, five hundred and twenty four in the districts around.

#### TECHNIQUE OF VACCIDATIONS.

All vaccinations by this Department were done with either an ordinary straight surgical needle or piralent making needle. The needles being sterilized butteen each water hard on by being first disped in methylated arises and then rismed at a spirit lamp manutained alight. Arms were all cleaned before being operated on with either toop and water, a main brust, being uned, or with spirit.

And a general rule three vaccination marks were made entroach person dealth with four straight parallel outs geon about in long general to make one mark to doing mass vaccinations it age found most callidate to here one orderly observing arms and another against in the storial state of headles getting ready the lymph one the savetcher were made.

six to twelve needlen were always kept, in the person vaccinating program up describe needle for each case and dropping it into a special receptable as soon as finished with. The Orderly in charge was responsible for the sterilizing of used nedation and the placing of them ready for use.

### RESULTS OF VACCINATION

In a compaign conducted on such a large scale, it was not possible to collect figures of results. While in the majority of cases in which unprotected people were vaccinated the results were good, it is unfortunately true bush to are were a few failures. A few individuals are known, who failed to take on the first vaccination, but have good gospith on respections. A study of the details of oduce shown it to appendix will also show that analy pox occurred in a coltain number of peoples, who were vaccinated but pur whom the operation failed to sive a positive results.

In definite reason can be offered for individual failures, but one out all of the following work possibily factors in the warkous quade.

- (1), The selluciate publing off of washing out
  of the tymph somethe scretches sade. Thin I
  observed by have seen attempted by all classes of
  one occasio by all thropsen.
- arter on been absorbed.
  - (3) Himmediate exponence to direct surlight.
- (4) The vaccination of an arm cleaned by spirit before the spirit has quite dried off. within unfortunately does happen when mass vaccinations are being done and a long queue is waiting.
  - (5) Non-potent lymph in tubes used due to
    - (a) Hon-potent lympn arriving.
      (b) Exposure to the sun of Mombada while being used.

It is interesting to be able to record that the vaccinations performed were in no cases associated, with serious results. The S.W.O. Native Civil Hospital reports that about twenty Africans and Indians attended as out-patients to have their vaccination marks dressed and that in most of these definite histories of self contamination were obtained. Only one person was admitted

Into hospital es an in-patient with a septic am following vaccination and he cleaned up rapidly.

In several capes this Office was informed that the general re-action following the development of the pustules was marked and associated with a rise in temperature. A few Europeans were admitted into Hospital but in all these cases the vaccinations had evidently set alignt a latest relation.

unticaria like rean appeared following the yearing not be read appeared following the year including both these radice cleared up rapidly.

no mane of general vecoints was seen.

A study of the details off cases of small-par admitted will show that no case occurred administ people, protected by recent waternation, although quite a . considerable dumber of cases occurred in people was during the licenstation, period.

The following figures of small-pex coduring to people vectinated during the incubation period are interesting.

	3.3.25		· 1	S. A. S. Carlot		6 N	
计划法	ed stage of son when ted	No. of cason occurring	No. of cenes very mild.	No. of capes severe	Bo of canca confluent	Deatha	No.or Death to case
	End Day  3rd "  4th "  5th "  6th "  7th "  9th "  1th "  2th "	H. 3. 4. 5. 11. 6. 2.	1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	2. 2. 8. 5. 3. 1.	2 1. 2. 3. 1. 1.	I. 2. I.	N11 N11 25, N11 18, N11 25,
Sec.		39	5	22	12	5	138

During the period 23rd January to 21st March
Rayanty two dances of small-pox in people unprotected by
recent vaccination were admitted, and seventeen deaths
occurred amongst these i.e. the percentage of deaths to cases
in unprotected people was 24% against 13% in cases protected
in the incubation period, but developing small-pox.

If is unfortunate that no figures are available of the number of people pritteded in the incubation pariod not developing imalityper at all. There has been exidence available that a vertain number of mild cases of small pox amongst phildren Securing during the Eastination ampedian year never reported to us. A completel quark categories with the Haddycred by the Health Trater good arterrepresentation of the state of th

perofescioning this emerge entité vaccination campaign; I phould like to place différent in the report my apprechation of the great applicance rendered by Mr. Ling Senior Sanitary Inspector, Mrs. Reactor Durathe Stater, Mr. Nair Assistant Surgeon, and all the African Staff, who worked untiringly including it a success.

## (B) HOSPITAL ACCOMMODATION AND TREATMENT

# Administration of Small-pox Hospital

All cases of smell-pox discovered in the Town were removed to the Infectious Diseases Hospital, the buildings exleting more at the time of the outbreak being

III Three permanent general wards, each capable of taking eight bodgy but provided with broad verandahe that could be used for patients if required in any but monadony weather.

(2) Three temporary bigoks built by mud and correl chips, one with a filled roof, and the binera with maketips the charge woofs.

Each of these elocks conflicted of a series of anome, the one realed that tipes of four rooms, each intended for one patient, but expands of being priod for those the other broken could each house about all them patients.

- (3) mirro vere twelve tents available each capable
- (4) Ar European, block with accommodation for about

When the first case of small-pox was dimitted various blocks in the hospital were occupied by cases of the following: Tuberclosis, Dysentery, Typhoid Fever, Corebrospinal Fever and Kumps, there being in all 24: patients in hospital.

The first cases admitted were placed in the tiled temporary block and contacts, as brought in, in tents pitched in that portion of the hospital compound.

As further cames began to arrive, and it was apparent that an epidemic was to be expected, steps were taken to discharge all cases of other diseases or to transfer them to the Native Civil Rospital; Dr. Massey S.M.O. assiting us by arranging for their accommodation there, and further, taking

responsibility for diseases other than small-pox occurring in the Town.

是1912年2月2日 - 1912日 1913年 - 1913日 - 1913日 1913日 - 1913日 - 1913日 - 1913日

stary at the I.D.H. at the biginning of the Epidemic

Ward Master - Capt. Whittonbury.

Dressers Cook

DOR I

Sweepers

Water Carriers I

Guarde (Ankarie) 2

Mescengor Boy 1.

While the above staff was sufficient for the grdinary fouting work of the houpital, when on the average there wore never more than four to flive patients at all seriously ill, it did not suffice for the core of a fairle number of patients all seriously ill and one saw all negating individual case and attention.

by the 14th rebonary, twenty five cases of small-pox had been admitted, the number going up to fortilations by the 21st.

The staff had in February to be ingreased. In Africa here are as yet no Training Centres for Murning Dyderlies, which can be drawn on in an emergency, and so any available boy had to be engaged as dressers, these naturally had no experience in the nursing of the sick and practically no knowledge of small-pex. The Ward Master in charge was now completely occupied in administration and could not afford the time necessary to supervise the Orderlies, much less train them. The M.O.H. with the preventative campaign on his hands could only find time to visit the Institution on an average twice daily, medical Headquarters Nairobi were requested to provide a Nursing sister, and on 17/2/25. Miss Biggar Nursing Sister, who had just returned from home leave was attached to this Department for duty at the Hospital.

With the arrival of Miss Biggar, the whole working of the hospital was re-organised, the dressers old and new were trained and supervised in their work, and the Stores available were overhauled, urgent indents being dispatched for numerous things necessary. As accommodation available was being used up, and it was feared further cases might be expected the P.W.D. were authorised on 21/2/25 to creet a temporary makuni word capable of taking twenty fattents. This was put up as rapidly has possible, and the letter found to be of use for the neuring of patients during convalences.

Miss Biggor, up to the 27th February lived in the Town and visited the Hoppital datly but on that date as a case of small-pox in on Furobean was admitted, one with Miss Reardon Health states were necommedated in the Edupital, and divided the work between themselves. An European Sister being on duty both night and day.

at the end of pobruary the Staff of the Happital

To assist in the case of the sick.

Assistant Surgeon Neir was during the month instructed to visit the Hospital each morning between 9 a.m. and 12 noon, and assist the Nursing Sisters as required. Captain Whittenbury for the time being was relieved of nursing duties and instructed to keep the records and attend to administration. Mr. Morgan Sanitary Overseer, was made available to supervise disinfections as required.

that occurred, firstly, on the arrival of Miss Bigger, and secondly, on the two Sisters going into residence in the Hospital was very marked, and as the person most relieved by their assistance and help, I would like to take this appartunity or expressing my graticle to the wolle-bearted and teatful manner in which they take their problems, and for the care they showed in the nursing of patients, and for the care they showed in the nursing of patients, and citing our efforts generally by the two hoppitals a popular institution.

It is reared that amongst the general public in Mombala there existed before this a dread of the Infectious Bineases Hospital and it is possible that this dread might in some little degree have eccumned for the agreedment of cases that occurred at the beginning of the epidemic with the recognization of the harpital and cause for sampling with the recognization the particular and contacts receiving averaging and care.

in retirery, we process of the Indian cases were admirated, most of them in children, the administration was complicated because the children were always accompanied to the hospital by parents and other members of the family taxing our available accommodation, and further in creating difficulties by reason of cast prejudices, which existed among the various sects, necessitating not only careful division of the accommodation available, but also tactful handling of cooking and feeding arrangements.

The feeding was eventually solved either by the issue of rations, families being allowed to cook for themselves, and by permitting food to be brought in from outside at the patients' expense.

The disease all through the epidemic was severe in type, cally very few mild cases occurring in people not protected. Although in several passes a history of severo paind in the bank and night temperature could be obtained, quite a few save no such history.

The discovery of and 1-pox hater the approximate and the approximate and the approximate and the approximate are often approximate and approxi

the real englishment in the organic though thous marks wild, say profess in the host agang torrace in the tree

of the budy ore enter in centiuent, and more sere governally annotated with omal business in and around it papeles.

pentin courred in practically all cause agreefated with nameralegae, death in these area boding wall, and to the toward or the dipease.

In inchorrhagic cases the wish developed slowly.

The temperature remained high throughout and the patient never appeared to get over his primary textula: The nursing of such cases was difficult as the opidermis was easily rubued off.

One severe case was appociated with hematuria.

### Treatment Adopted

All patients were treated on beds, the supply available being augmented by indents on medical Stores Nairobi.

For the general care of all cases a routine treatment was laid down. Mild cases were bathed twice daily with a lotion of permanganate of potash. In the severer cases every case was taken to maintain the temperatures of patients at or below IOI. F.

A TANKAR AND THE BOOK OF

Any rise of temperature above this was tretaed by sponging with a tepid solution of potassium permanganate, the solution being made as strong as the dropsers hand would permit. If the patient, scase permitted, the sponging was done in a long bath containing this solution.

In the confluent cases associated with small
historichager and only adopt that it for heaver his
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with the sources are in in mile adopt as a second prove it the officer and cake the species in the second cake the second ca

in until mi again and fairen off.

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racolites a rock of the same confidence with said they

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the stone and such chesper.

Stimuleath were not given untileindicated, when required brandy and a mixture containing digitalia and attyahning were administered.

In all cases eyes, ears and mouth were carefully attended to, the nursing Sisters themselves paying special attention to the eyes and seeing that those were cleaned at frequent intervals.

In quite a number of the earlier Indian cases eye trouble had started before the patients came under our care, and although these cases were treated with eye shades and atropine, configal scars could not be avoided.

Only two cases developed ulcers on the comes arter

comical opacities.

Sandaliyes, telles

#### Mortality

treated in the infectious Diseases Mossifical and of those 30 ended satulty, giving a case of mostality of 23.6%. Dosings

### oprese acc des

come under our notice especially the mi - case descring did no come under our notice especially the mi - case beauting in the little and adults partially protected by vaccing on the case on partial of the disease. As stated before a first disease on partial the states at her olinic showing along the chart is were the will be made to the world of the guilt form of made partially the made of the made of made of the chart as were then a will form of made of made of the chart as were the the chart as well as well

occurring on the halolous street and seemed in

## (C) DISPECTION OF PREMISES AND ARTICLES INTECTED

on the discovery of mail not in my spilling etops were flamediately taken by this office to have the province elegated as a second des

All infected expicies that could be removed were taken to the infectious Dissasses Hospital and put through the Thresh disinfector or scaked in disinfectant.

## Disinfection of Patients, Effects & Hospital Lines &c

On admission patients were put into hoppital clothing their awa clothing being put through the Thresh and then washed and stored for re-issuing on discharge.

Fresh clothing, bod linen and blankets were issued as frequently as required, the soiled articles being disinfected and cleaned before being re-issued.

### (D) ISOLATION OF CONTACTS

Only when it was considered no proper supervision could be exercised on contacts was isolation of these insisted on. This practics was undoubtedly risky, but was decided on for the following measons:

i. Accommodation in the hospital was limited and it

2. With the distriction of premiers and a trope infacted, it was considered contacts in the second over if insubating the disease constituted no tent to the public, which the disease found to appear, and being kept wider surrediffure about 4,60 controlled immediately that happened.

3. From experience, gained in dealing with other apprehence; its man anown that much at the supportment and appropriate the apprehence; the man anown that much at the supportment and appropriately the appropriately the apprehence of the Health perartially were due to the fear that all possible contacts would be indicated. Forents, etc., usually risked not reporting change, and the penalties that might entail rately than put up with the encouvering or being tend flad and the indicate of their due to the apprehence of the apprehence

the live of the family on the appearance of the disease in a further member of the family field to the mainland. The departure of this family was discovered almost immediately and they were fetched back, and one and all placed in quarantine.

#### (E) COST OF EPIDEMIC

It is a matter of the greatest difficulty to reduce to chillings and cents the cost of this epidemic to Mumbasa or the Country as a whole.

Piretly, it is impossible to estimate what the recent of t

Escapily, it is impossible to estimits and a limit of the canonical public in Alttle matters as well and with the dontrol of the desired, at though estart estart was made to compare as little interference as possible, with the matter of the compare as little interference as possible, with business.

Thirdly, no elimate can be made of the time and energy exempled by members of my Staff, who one and all works rights through the compaten-at all hours of the day and even after duck as necessity arous, this work being the additional to the ordinary routine or the office, which had to be and make main tained throughout.

Toyonment reoponsibility, the cost of Staff, spillment.

Toyonment reoponsibility, the cost of Staff, spillment.

drugs etc., way met from Government funds, A fill estimate;

of money expended from Medical Votes could not be given from

this Office, as equipment, stores etc., are supplied from

Headquarters, who alone could estimate what all these cost.

It is interesting, however, to compare the expenditure under

a few of the votes of which records exist in this Office with

the expenditure under these votes over the same period in 1924.

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	13 Hote	n Keepers.		AND THE PARTY	共和共	對達	

Taxi-drivers and Owndry.
Shopkoopers.
Ship's Chandlers.
Laundry men or Dhobies.
Baggage and other Agents.
Dealers in Curios.
Casual Labout.

Since small-pox broke out in the Town, practically all saling calling at the port to safeguard themselves worked while here in voluntary quarantine, not allowing crew or transit passengers ashore, and generally having as little contact as possible with the Township.

After discussing the subject with various business people, I am of opinion that a very conservative estimate of the loss of business to the Town by the working of snips in guarantine is about £100 per snip and working on an avenage of 30 anima per month calling at this port in airpo months £2,000 worth of business was lost to the Town.

## Lessons to be lourd't from this Epidemic.

- rith epidemic of email por paich it is to be regreved, sould have derved in uneful purpose in from it we learnt now fature epidemics might be prevently or in unfortunate enough to occur controlled and took stops to enforce things must measure we have fearnt are secessary.
  - 1. That danger exists of small pox being imported from Benka or India generally. It is absolutely necessary if further epidomics are to be prevented to desure either that all passenders from that country leave there protected or enforce some system of quarantining attitude only, so as to be sure that ne one incubating small-pox is admitted.
  - 2. The earliest cases in this epidemic was an Indian infection, and later in the campaign a case was discovered, which had developed the disease two days after landing in the Country from a ship from Bombay. At this stage in its development, Mombasa or Kenya Colony and Protectorate can little afford to have any further epidemics of a similar nature, and hence must not take risks of importing further cases of small-pox.

Besides the ships bringing unknown to us at the time the two cases mentioned above, four other British India boats have left Bombay this year with persons incubating small-pox; cases developing in three before arrival in Mombasa, while in the last vessel a case of small-pox developed in a member of the crew after leaving this port, a further case appearing in a contact on the return journey from Durban.

Protected against small pox is to be maintained omited Island protected against small pox is to be maintained omited Island or townening, vaccination campaigns will have to be conducted attry years. The law compelling vaccination exists. This law must be enforced and logal action taken as necessary to punish individuals failing to obey it.

The Police have powers to insure that all vehicles one, are discussed and also powers to inspect registration certificates, or all male African adults. Surely, it is not too much to less that powers be given to make affi persone produce evidence of

recent vaccination when called or to do so with regard to motor recent when called or to do so with regard to motor recenses, the power langiven to the power in given the revenue is collected in the second case the power in given for other recenses. I would urge that for the protection of the public health, that the powers be extended to ensure

That it is absolutely essential that Firth Regiotration thould be made compulsory, if for no other reason than to enable the Sanitation repartment to carry out infant vaccination.

That this is necessary is proved by the number of India: children developing small-pox.

vaccination.

Until Birth Registration is enforced or some other legislation as suggested above, we shall always have growing in this Town an unprotected population.

4. The existing legislation is not sufficiently simple to insure the effective punishment of all persons found if a concealing a disease such as small-pox. The Public Health ordnance 1921, makes the failing to notify an offence, but the pensity is only 23, and the offender woulf appear to be preparable to any 23, and the offender woulf appear to be preparable. The only 23, and the offender woulf appear to be preparable to the order of highly and heavy of the order of the factor of the factor of the pensity was heavy of the order of

## NOTES ON ATTACHED CHART

Chart No. I.

GP OF S

This shows

CONTRACTOR OF THE STATE OF THE

The number of vaccinations done from day 6 / to day, and the number of people in Mombasa protected by vaccination as our campaign developed.

The number of cases of small-pox in the thractive attends hidden to have begin putside the hopping on on the first that the second second in the second seco

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Twelfi days to felon as the increase applied to disease on homestimication is pregoned to the action of the area of the area of the action of the comments of the action of the

table of the art we in the species with the

he pear the inference of any symptome at all the period of incubation has not been considered infectious.

This basts for my calculations has been adopted, because in some of the carlier cases it would appear that allowing twelve days for the minimum incubation period of the disease, infection must have occurred presumably from a case in its carliest stages. Further, from experience gained during this epidemic, I would venture to suggest that the stage of initial symptoms, such as fever, pains in the back etc., is not casy to divide from the stage in which the rash appears.

It must be admitted that incubation in a few of the cases might have been slower than twelve days, but

in the absence of other evidence an average period had to be taken.

In Chart No.I. an attempt has been made 160 of one pay with the starting and development of the vaccination compaign, the number of cases infected and developing the disease dropped considerably, elthough the campaign began in the live of a second compaign began in the live of the lin

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19th 25th; s	59.752.	29,319.

GRAND TOTAL .... 89,071.

#### STAFF OF THE HEALTH OFFICE AT TIME OF OUTHINGK AND AVAILABLE FOR VACCINATIONS.

- 1. Medical Officer of Health
- 2. Senior Sanitary Inspector, Mr. A. P. Ling
- 73. Sanitary Inspector, Mr. Williams
- 4. do Mr. Bunker

on or out a with a subject of the Continue of the

S. Naveing Pieten, Week Morden

g Sanfrary Overseen, Mr. Morgan

African State used for vaccination:

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1 vaccinator (15/2/25)

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27/4/29

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#### TST OF SMALL-POX CASES

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, <b>/</b> 96.	Hassanali Moosaji	21 3 28 Indian	<b>新</b>	K161kon1	Unvaccinated	Convalescent	23rd January	Severe	
97.	holfamed bin Habui	2313125 Kikuyu	, ,	Fort, Mombasa	" (Is marked as if had previ	l 5th day of diseas i-		Discrete	E THE THE
198	Podla Maganga	24:3:25 Giriama		Kigauni	Unvaccinated	4th uo.	8th ¶	n T	A STAR
199.	Bukt Luzima	25:3:25 Manema	, ,	Fruit Market, MSA.	# *	eth do.	9th , "	Confluent	D1 ed 30/3/25
100.	Mohamed bin Sheik	26:5:26 Arab		Membe Tayari Conservancy Camp		4tH do.	9th "	uisorete	Recovered ,
101.	Ndegwe Kaburi	25:3:25 ^ikuyu ~ 27:3:25		Nat. Civil Hospital		6th do.	12th "	Confluent	Died 29:3:25
102.	Namebers Wathamaragulor	" Puruma	12 yrs. Female	Kaloleni	e	Convalescent	9	uiscrete 2	Recovered
104	salda binti Juma	28:3:25 E	a The same of the		#		7	. R	
105.	Abdulla bin Saidi	" Giriama	Adult Male	Changamwe, Mainland	and the state of	7	T See See See See See See See See See Se	` H	" H
106.	Maria kuwithia	" Kikuyu		Conservancy Camp	n	E: day of diseas	e 11th March	*	"
107	Machunesi Bega	3:4:25 Mdigo	" Female	Changamwe, Mainland	н	haring convales-	.4	# (4)	e gen <mark>ille i s</mark> e
108.	Khoya bin Bega	п п	6 yrs. Male		. н	eth day of diseas	e 17th March	a (m. grande)	
109.	Harafa binti Hamadi	6:4:25 Swahili	Adult: Female	Kengeni, Mainland		Eth do.	20th "	II	100
-110.	Knyale bin Kombo	" Girlana	Wale	Chuni, Mainland	H (	14th do.	11th . ". 1		1.1
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