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Contributors

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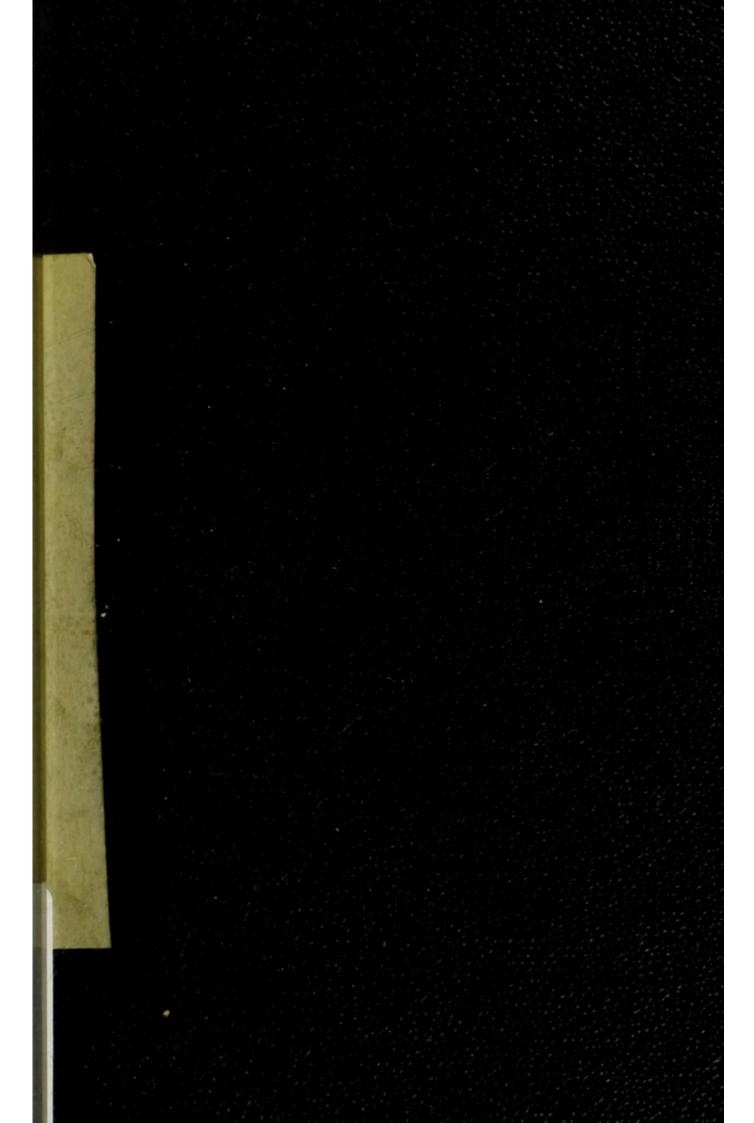
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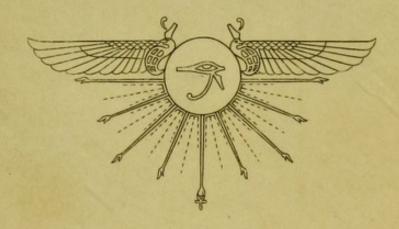
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DEPARTMENT OF PUBLIC HEALTH.

PLAGUE

INSTRUCTIONS ON PROCEDURE IN OUTBREAKS OF PLAGUE.

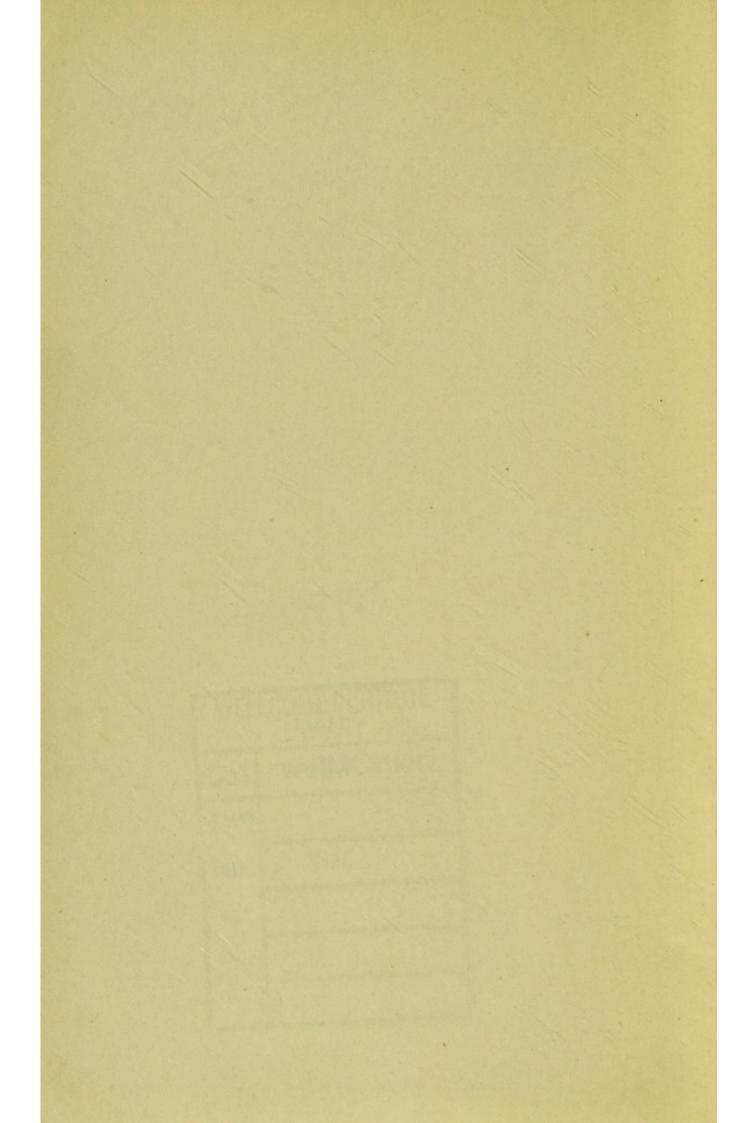


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INSTRUCTIONS

ON PROCEDURE IN OUTBREAKS OF PLAGUE.

The conduct of outbreaks of plague having now become a routine part of the duties of Medical Officers, it has been thought advisable to issue in a compact form a description of the various methods which have been found to work satisfactorily in practice.

- 1.—It cannot be too strongly impressed upon Medical Officers that the same care must be exercised in disinfection and the general management of isolated cases as is shown in dealing with outbreaks. It is only by exercising the greatest care in the investigation and disinfection of the earlier cases that a reliable opinion as to the extent of the subsequent necessary disinfection can be formed.
- 2.—As soon as a case of plague is discovered in a town or village, arrangements must be made to disinfect contacts, clothes, and the premises, and to inspect all deaths which may subsequently occur in the town or village.
 - A.—In Towns where there is a Disinfecting Station.

Procedure on the outbreak of plague.

3.—When a patient is found to be suffering from suspected plague the police should immediately be requisitioned for a guard to see that contacts do not

EXCIPILITIONS.

ON PROCEEDURE IN OUTBREAKS OF PLACUE.

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escape and that nothing is removed from the house, and the disinfector (mubakhar) and sheikh el harah should be ordered to attend.

- 4.—A list should then be made of all contacts, viz., inhabitants of the house and nearest relatives, with the assistance of the sheikh el harah, who should seal the list after having made sure that it is complete.
- 5.—The patient should be removed to the hospital for infectious diseases in the ambulance. If there is no special hospital for infectious diseases Medical Officers must arrange for a temporary one (see para. 90 et seq.).

The ambulance must be disinfected after use.

No patient should be removed to hospital who is in a dying state, or when it is thought that removal will affect the patient injuriously, but all cases treated in their own houses must be properly isolated (see paras. 70 and 71) and must be specially reported to the Divisional Inspector.

6.—All contacts must then be examined and disinfected; they must be seen daily for ten days afterwards. A special time and place should be appointed for this daily examination at which the sheikh el harah should be present.

If thought necessary, contacts may be isolated (see para. 24).

One or two of the contacts should remain in the house during the disinfection; the others should be

earty and that noticing is removed from the issues, and the disinfector (nuthables) and shorter of barrals should be ordered to attend.

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If thought question, contents may be feducal (see

One or two of the control should remain in the

sent outside as soon as their personal disinfection is finished.

7.—All clothes and soft goods are to be entered on lists by the disinfector, packed in canvas bags and sent to the disinfecting station (mabkharah), and the whole house and its remaining contents thoroughly cleaned and disinfected (see paras. 52 to 57).

In every case, before clothes are packed for removal to the disinfecting station, or disinfected by sublimate on the spot, owners should be asked in the presence of witnesses whether the clothes contain money, valuables, or papers.

If so they should be instructed to remove them.

8.—As soon as possible after the arrival of the patient at the hospital a specimen should be taken of the serum from the bubo, or sputum in the case of suspected pneumonic plague.

In cases of deaths from suspected pneumonic or septicæmic plague two specimens should be taken, one from the heart blood, the other from the apex of the right lung just below the clavicle.

Method of taking be boiled for ten minutes, both before and after use. The skin must

be thoroughly cleansed and disinfected with sublimate solution (1: 1,000) and alcohol, and the needle inserted into the substance of the gland, lung, or heart. In some bubonic cases several minutes elapse before a

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7.—All clother and out goods are to be emissed on the the the can't to the distribution parlocal in canada bases and the chartest exception (and blue distribution) and the constitution (and also beautiful distribution) and the constitution of the constitution and the constitution and the constitution of the constitution of

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8.—As soon as possible after the arrival of the cities at the bospital a specimen should be taken of the second from the labor, or sputted in the cities of a speciment of the second plants.

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The test tube is then closed with the cotton plug; the syringe is washed out several times with water to remove albuminous material, taking care to keep the point of the needle below the surface of the water, and is then again boiled.

The form accompanying the specimen must be accurately filled up and the whole carefully packed and sent off without delay by letter post. At the same time a short history of the case should be sent, addressed to Director-General.

This history should give :-

- (a) Serial number, date, name, age, sex, village markaz, and mudiria.
- (b) Clinical description.

When the specimen has been examined, the details of the bacteriological report will be sent to the Central Administration and the result will be telegraphically communicated to the district concerned by means of five different code words according to the nature of the case. It is important that the exact signification of these words should be understood by all Medical Officers and Inspectors.

I.—Positive.—Meaning that the bacteriological examination has shown either positive or very suspicious results and that the case is to be considered and bulletined as plague, and precautions taken accordingly.

for drops of sering that their way has the springe, yen though a good secure is maintained. When a drop of two of sering appear in the syringe the needle should be withdrawn and the sering ejected on to the enface of the again slope.

The test tube is then closed with the cotton plux to the syringe is mashed out several times with water as remove albateinous material, taking case to keep the point of the needle below the surface of the water, and is then again boiled.

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When the specimen has been exacted, the details of the backeriological report will be sent to the Central Administration and the result will be felegraphically continued to the district concerned by accume of the case. It is important that the exact signification of the case. It is important that the exact signification of the case words should be understood by all Medical

1 — Positive — Meaning that the baceriological or examination has shown either positive or receiptions results and that the case is not be considered and buildined as plague,

- II.—Suspicious.—Meaning that the bacteriological examination has shown suspicious organisms, and that the same precautions should be taken as if the case were plague, but it is left to the Medical Officer's discretion to bulletin the case or not according to its clinical and epidemiological aspects.
- III.—Indefinite.—Meaning that the bacteriological examination shows no results at all, and that both the precautions to be taken and the question of bulletining the case are left to the Medical Officer, taking into account the clinical and epidemiological aspects of the case.
- IVa.—Specimen Overgrown.—Meaning that the culture is overgrown with saprophytic organisms, showing that the Medical Officer has neglected the proper precautions in taking the cultures.
- IV b.—Agar Useless.—The agar may be dry, in which case the Medical Officer should have taken steps to secure fresh tubes.

SUMMARY.

A .- IN TOWNS WHERE THERE IS A DISINFECTING STATION.

I .- When patient is alive:

- 1. Put a guard on the house.
- 2. Send for disinfector and sheikh el harah.
- 3. Ascertain probable source of infection.
- 4. Make a list of contacts with the assistance of the sheikh el harah.
- 5. Remove the patient to hospital.

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- 6. Take specimen for bacteriological examination.
- 7. Examine and disinfect contacts.
- 8. Make a list of clothes and soft goods and remove them to the disinfecting station, after ascertaining that they contain no valuables or papers, and that no clothes are concealed or taken away.
- 9. Disinfect the premises.
- 10. Disinfect surroundings.
- 10.—When the patient is discovered after death the same procedure will be followed, except that instead of removing the body to the hospital mortuary the specimen for bacteriological examination will be taken in the place where the body is lying. Should there be opposition to the taking of specimens, the proposal to remove the body to the hospital mortuary will usually overcome the opposition.
- 11.—A solution of corrosive sublimate (1:1,000) must be prepared and given to the corpse-washer (moghassil) for washing the body, and the shroud (kaffan) must be soaked in sublimate solution (1:1,000) by the disinfector and handed to the moghassil.

In cases of pneumonic and septicæmic plague the patient's clothes should be soaked in sublimate solution before they are removed.

The body may then be removed for burial. The bier should be zinc- or tin-lined and must be disinfected after use.

12.—In certain towns, where deaths from plague are taking place without previous notification of illness, it has been found that the removal to the hospital

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10.—When the patient is discovered after death the same procedure will be followed, except that instead of removing the body to the hospital mortancy the specimen for bacteriological examination will be taken in the place where the body is lying. Should there he opposition to the taking of speciment, the people of the taking of speciment, the people is the taking of speciment, the taking of speciment, the trapposal to remove the body to the bospital mortancy will usually overcome the opposition.

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12.—In certain towns, where deaths from plague or inking plages without previous notification of illness, it has been found that the removal to the hespital

mortuary of the bodies of all those who have died without previous notification of their illness, whatever the cause, has had a salutary effect and encouraged notification of the cases during life.

SUMMARY.

A.—In Towns where there is a Disinfecting Station.

II.—When patient is dead:

- 1. Put a guard on the house.
- 2. Send for disinfector, sheikh el harah, and moghassil.
- 3. Ascertain probable source of infection.
- 4. Make a list of contacts with assistance of sheikh el harah.
- 5. Examine and disinfect contacts.
- 6. Prepare disinfectant for washing body and disinfecting the shroud.
- 7. Take specimen for bacteriological examination.
- 8. Make a list of clothes and soft goods and remove them to the disinfecting station, after ascertaining that they contain no valuables or papers and that no clothes are concealed or taken away.
- 9. Disinfect the premises.
- 10. Disinfect surroundings.

B.—In Towns where there is no Disinfecting Station and in Villages.

- 13.—When a patient is found alive suffering from suspected plague, a policeman or ghafir should be put on guard at the infected house; the omda in villages, the sheikh in towns, should be summoned and a list of contacts made out with his assistance.
- 14.—The contacts should be examined and disinfected with sublimate solution (1: 1,000), and all, but one attendant for the sick person, sent out of the house. Contacts must be examined daily for ten days (see para. 6).

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B.-IN TOWNS MINER THERE IS NO DESINE SCHOOL STATION AND IN VILLAGES.

13.—When a patient is found alive suffering from suspected plague, a policemen or ghalic should be put on geard at the infected house; the could in villages, the shellth in towns, should be summoned and a list of contacts made out with his assistance.

14.—The contacts should be examined and disinfeeted with sublimate solution (1:1,000), and all, but one attendant for the sick person, sent out of the house. Contacts must be examined daily for ten days feet para, 6).

- 15.—The house must then be locked up and left in charge of the guard who must be given strict orders that no person be allowed to enter or leave the house and that nothing be removed from it.
- 16.—Arrangements must at once be made to take the bacteriological specimen and to carry out the necessary disinfection.

The Mamûr must be informed and a telegram sent to the mudiria Public Health Inspector, asking for the exploring syringe and for the services of the disinfector with materials for disinfection.

17.—During the period which elapses before the arrival of the disinfecting equipment, Medical Officers must make arrangements for the proper isolation of the patient and attendant.

In wet and cold weather isolation may be effected either in a tent or, in very exceptional cases, in the patient's own house or by removal to a more suitable one. In all cases when a patient is isolated in a house the conditions laid down in para. 70 must be strictly adhered to.

When the weather permits, tents or huts of mats, reeds, or durra-stalks should be erected outside the village, to the south if possible, and the patient isolated there with an attendant. Arrangements for food supply for the patient and attendant should be made in accordance with para. 99.

When a temporary hospital is erected on private property the rent of the site should be settled and a written contract drawn up.

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16. A congements must at once be made to take the backwidelegical specimen and to easy, out the necessary distribution.

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When a temporary hospital is created on private property the rent of the site should be selffed and a written contract drawn up.

- 18.—As soon as the exploring syringe arrives, the specimen for bacteriological examination should be taken and must be forwarded without delay (see para. 9).
- 19.—On the arrival of the disinfector with the equipment, a small gang of five or six men will be formed and the house and surroundings thoroughly cleaned and disinfected (see paras. 52 to 57).

Should the disinfector not be available the materials will be sent, and the Medical Officer must himself carry out the disinfection of the house and surroundings with such assistance as he can obtain.

SUMMARY.

B.—In Towns where there is no Disinfecting Station and in Villages.

I .- When patient is alive:

- 1. Put a guard on the house.
- 2. Send for the omda or sheikh.
- 3. Ascertain probable source of infection.
- 4. Make a list of contacts with the assistance of the omda or sheikh.
- 5. Examine and disinfect contacts.
- 6. Telegraph for disinfector and materials.
- 7. Isolate the patient.
- 8. Take the specimen for bacteriological examination.
- 9. Disinfect premises and contents, including clothes, after ascertaining that none are concealed or taken away.
- 10. Disinfect surroundings.

NOTE.—It is very seldom necessary to destroy infected clothes, etc.; they should be soaked in sublimate solution (1:1,000) for twenty minutes and afterwards thoroughly dried in the sunlight. When, however, for special reasons the burning of infected clothes

28 -- As soon as the exploring syrings arrives, this excessed for business of without should be taken and make the forwarded without stellar (see parts 3).

19.-On the arrival of the disinfector with the equipment, a small gang of five or six mon will be formed and the house and surroundings thoroughly

Should the disinfector not be available the margainle and the sent of the Madical Officer must himself correspondently out the disinfection of the bouse and surroundings with such assistance as he can obtain.

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or other articles becomes absolutely necessary, Medical Officers must make a list of all clothes, etc., to be destroyed and draw up an agreement as to the amount of compensation to be paid. This agreement must be sealed by the owner. Compensation should be paid on the spot, if possible, by Divisional Inspectors, or in their absence by Medical Officers, and a receipt taken from the owner or his representative in satisfaction of all claims (see para. 104).

- 20.—When the case is discovered after death, similar measures will be taken to those in the preceding instance, but the moghassil will be sent for as well as the omda or sheikh.
- 21.—As soon as contacts have been disinfected they will be sent out of the house to prepare for the funeral. Contacts must of course be inspected daily for ten days.

Even if it is decided to isolate the contacts, those who appear to be in good health should be allowed to attend the funeral after disinfection. A policeman or ghafir should be ordered to go with them and bring them back to the place of isolation after the funeral.

- 22.—After the specimen for examination has been taken, disinfectants for washing the body and soaking the shroud must be prepared as in para. 11, and the body may be buried.
- 23.—The house should then be locked up, the key given to the omda or sheikh, and a guard left on the house until disinfection can be undertaken.

other articles becomes also another nonespect Markovict (filters) at make a list of all clothes, etc., to be destroyed and drawing a squarement to to the amount of compensation to be paid. This expresses and to the small by the owner. Compensation should be able to the applicable, by Divisional Inspection, or in their clothes for Hedderl Officers, and a receipt taken book the course to the representative in testisheeten of all dinima (or more list).

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SUMMARY.

B.—In Towns where there is no Disinfecting Station and in Villages.

II .- When patient is dead:

- 1. Put a guard on the house.
- 2. Send for omda or sheikh, and moghassil.
- 3. Ascertain probable source of infection.
- 4. Make a list of contacts with the assistance of the omda or sheikh.
- 5. Examine and disinfect contacts.
- 6. Telegraph for disinfector and materials.
- 7. Take the specimen for bacteriological examination.
- 8. Prepare disinfectant for washing body and soaking the shroud.
- 9. Disinfect premises and contents, including clothes, after ascertaining that none are concealed or taken away.
- 10. Disinfect surroundings.

of contacts. 24.—In all cases of pneumonic or primary septicæmic plague contacts should be strictly isolated for ten days.

In bubonic cases it is usually sufficient to keep contacts under observation for ten days, but in certain cases it is advisable to isolate them. For instance:—

- 1.—When the contacts are people of no fixed residence.
- 2.—When there is reason to believe that infected clothes, etc., have been concealed.
- 3.—When missing members of a family or house-hold cannot be discovered.
- 4.—When cases of plague have been wilfully concealed.
- Disinfection. 25.—Disinfection may be either special, that is, confined to the house of the infected person and its immediate

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tacts should be strictly isolated for ten days.

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Disinfection. 25.—Disinfection may be either special, that is, confined to the house of the infected person and its immediate

surroundings, or general, that is, properly organized disinfection of a whole town or village. When the latter is carried out it is usually determined by the results of the previous special disinfections; for instance, the discovery of numerous dead rats during the special disinfections, or the occurrence of cases in various parts of the town or village, or the extensive concealment of cases and infected clothes. In several instances it has been found sufficient to carry out general disinfection of portions of towns.

It is during this period of special disinfections that the preliminary arrangements for general disinfection should be made.

As in an outbreak the two forms of disinfection go on simultaneously, viz., the special disinfection of the "house of the case" and its surroundings and the general disinfection of whole towns or villages or portions of them, it is convenient to describe the organization required as a whole.

Duties of Governor or Mudir. Should be requested to assemble the sheikhs el harah and order them to make daily inspections in their quarters and report all cases of illness to the Public Health office.

of Mamûr of markaz.

27. — When small towns or country districts are infected the Mamûr of the markaz should be requested to convene the omdas and warn them

controlled on a whole town or village. When it is usually determined to the results of the provious special disinfections: by the results of the provious special disinfections: instance, the discovery of numerous fead rgue during the special disinfections, or the occurrence of during the special disinfections, or the occurrence of cases in various parts of the town or village, or the research contents of the town or village, or the research contents of the town or village, or the research instances it has been found sufficient to the contents of disinfection of reason found sufficient to the contents of the town of touch sufficient to

It is during this period of special disinfections that the product of several disinfection.

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Duties of Governor or Mudir

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Duties of Maurite of markar.

27. - When small brown or or country districts one independ the Manufact of the market should be

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that any concealment of plague in their villages will be regarded as a very serious offence.

Duties of Omdas. 28. — Omdas should instruct all sheikhs el balad to make themselves acquainted with cases of sickness occurring in their quarters and to notify them immediately to the Public Health authority. Barbers must be informed that they are not to give death certificates. Free attendance must be given to all those cases, whether plague or not, to which the Medical Officer may be summoned by the omda or sheikhs.

Inspectors of mudirias should explain to omdas that if suspicious cases of illness occur among the inhabitants of their villages, they should at once erect some temporary shelter outside the village, to the south if possible, and remove the sick there. They should not wait for the arrival of the Public Health authorities before taking such measures.

Concealment of 29. — When Medical Officers cases. have reason to believe that concealment of cases is being practised they should at once report to the Divisional Inspector.

Gratuity 30.—The giving of a gratuity for information. (P.T. 20) for each report of a fresh case of plague has a good effect. The gratuity should not be given, however, when the case reported has evidently been ill some considerable time and is in a moribund state, and the report has been made just

that any concentment of plague in their villages will be required as a very serious offence.

Onties 28. — Onder should instruct of Omdes, of Ondes, of being the make them-

solves acquainted with cases of sideness accurring in their quarters and to motify them immediately to the Poblic Health authority. Barbers must be informed that they are not to give death certificates. From attendance must be given to all those onsess whether players or not, to which the Medical Officer

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before death ensues with the intention of avoiding isolation.

The announcement of this gratuity should be made to a few persons who are likely to have special information, and payments of the gratuity should be made privately by the Inspector (see para. 104).

Duties of 31.—During outbreaks of Medical Officers. plague the duties of the Medical Officers are usually divided as follows:—

In Mudiria Towns.

The mudiria Inspector takes charge of the erection of the plague hospital and the organization of the disinfection service.

The hospital Medical Officer inspects the dead and attends to the plague hospital.

The markaz Medical Officer inspects the dead in the surrounding villages.

Special Medical Officers supervise disinfection and inspect contacts daily.

In smaller Towns and Villages.

The markaz Medical Officer inspects the dead in the markaz town and traces contacts.

Special Medical Officers supervise disinfection, inspect contacts daily, inspect dead in wide areas, and attend to the plague hospital.

The various duties should be specially assigned to the different Medical Officers in order that there may be no confusion. In some towns it is found advisable authors to colored the intention of avoidant

The accommounted this gratuity should be made to a lew persons who are likely to have special before made as both to have special before made as both by the tespector (see part, 104).

Duties of 31 - During outbreaks of the Medical Medical Officers are exactly divided as follows:

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Special Medical Officers supervise disinfection, import contacts daily, inspect dead in wide areas, and affect to the player hospital.

The various duties should be specially assigned to the different Medical Officers in order that there may be no confidence. In some towns it is longed advisable.

to divide the work of inspection of the dead amongst the various Medical Officers.

When it is necessary to examine all dead bodies in a wide area, e.g. within a radius of ten kilometres, a special Medical Officer should be appointed.

His duties should be to examine all dead bodies within his radius of duty before they are buried and to examine free all persons in the villages to whom his attention may be directed by the omda or sheikhs. He should also call on the omda, enquire into the state of health of the village, and examine the registers of deaths. When it is impossible for him to see all deaths, on account of the distance to be covered, he should report the matter to the Inspector in charge.

A donkey or other means of transport must be provided for the examining Medical Officers.

Preliminary Arrangements.

Store. 32.—A suitable place must be selected for the store (makhzan). In large towns it will be situated generally at the disinfecting station; in country districts it should be situated as near as possible to the work, easy of access for carts, and in a spot which is not much frequented.

Clerk. 33.—A clerk must be appointed to keep a register of all receipts and issues of stores, a register of the workmen, and a register of all payments.

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When it is necessary to examine all dead hodies in

the derice should be to examine all dead bedies a chin his radius of date before they are buried and a continuous tree all persons in the villages to whom his attention may be discoted by the ends or chin also the state of health of the village, and examine the registers of deaths. When it is impossible for the registers of deaths. When it is impossible for the covered, he should report the matter to the distance of he should report the matter to the deaths.

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Preliminary Assungements.

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Clerk.

to keep a register of all receipts

and issues of stores, a register of the workeren, and a register of all payments.

When a large number of gangs are employed a workman may be appointed under the clerk to keep the store clean, the equipment in an orderly manner, and to attend to the burning of rats.

Register of articles on charge. The register of articles on charge should be drawn up so as to show receipts of articles from headquarters or elsewhere, local purchases, and destruction of unserviceable articles. This register should be checked by a fortnightly stock-taking.

Workmen's In the workmen's register all the men's names should be entered by gangs if possible, the roll should be called daily before and after work and an entry made of each attendance (see para. 49).

Burning-place. 34.—A place should be chosen for the burning of rubbish to the south of the town or village, and a man, or men, must be appointed to attend to the fire only. He must be provided with an iron rod about three metres long (seekh) and a rake (karak), (see para. 69).

Map. 35.—A map of the town or village must be obtained. If no plan exists a sketch-map should be made showing the main streets dividing the town or village into blocks (mirabba^c), the openings of the blind streets, and the relation of the town or village to the Nile or canal.

Further details can be added later.

When a large number of sungs are employed a cockman, may be appointed under the clock to long the equipment in an orderly meanure, and to attend as the burning of case.

Register of articles on charge.

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plan exists a sketch-erap should be reade showing the main streets dividing the rown or village forto blocks (mireblas), the openings of the blind streets, and the relation of the town or village to the Pilo or canal.

Firstlier details one be added later.

Each case of plague should be entered on the plan by number according to the order of its occurrence, corresponding with the number in the case book.

Each evening the amount of the day's disinfection should be indicated on the map by shading.

The "fak el zamam" plan, showing the boundaries of the town or village, can be used as a basis for the sketch-map.

Personnel. 36.—In order that success may be obtained by general disinfection, constant supervision and experienced disinfectors are absolutely necessary.

A Divisional Inspector should invariably be in control, assisted by one or two special Medical Officers.

Disinfectors. 37.—A staff of experienced disinfectors will be obtained either from headquarters or locally, and the materials for the requisite number of gangs will be obtained from the local plague store or headquarters. In case of urgency, materials may be obtained from the plague store of another mudiria.

It is advisable to begin with one or two gangs only and increase the number as soon as the men become familiar with the details of the work.

The gang. 38.—The gang usually consists of a disinfector and eleven men; two of the latter, viz. one of the water-men (rashasheen)

constant supervision and experienced disinfectors are

and investment the natural as soon as the part because

and one of the sweepers (kanaseen), should be given the position of headman (raïs) with extra pay of P.T. 1 per day, to be raised to P.T. 2 extra pay if thoroughly satisfactory.

The pay of the ordinary workmen varies from P.T. 4 a day in the country to P.T. 6 a day in the towns.

Establishment 39.—The establishment of the gang is usually as follows:—

Kanaseen.

- 1 raïs.
- 2 men with sweeping brushes.
- 2 men with baskets.

Rashasheen.

- 1 raïs with watering-pot.
- 1 man with stable-broom.
- 2 men, each with 2 pails.
 - 1 barrel-man with :-
 - 3 half-barrels marked at 70 litres,
 - 1 small barrel of sublimate solution with tap,
 - 1 small demi-john of carbolic acid solution,
 - 1 enamelled measuring cup holding 350 c.c. for sublimate,
 - 1 tin measuring cup holding 500 c.c. for carbolic,
 - 4 canvas disinfecting sacks, 1 pail, 3 rubbish sacks,
 - 1 stirrer, 1 fass, 1 rake, 1 paraffin tin for rats, and a supply of quicklime.

and one of the severers (kapassen), should be given the positive of the case of F.T. 4.

In positive of headman (rate) with extra pay of F.T. 4.

The day, to be raised to F.T. 2 extra pay if shimoughly callstantory.

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1 man to fill rat-holes with short iron bar, pail of mortar, basket of broken glass, bottle of carbolic acid solution (1:10), trowel and lamp.

The kanaseen are usually distinguished by a yellow band on the arm, and rashasheen by a green band. The raïs wears a red strip over the yellow or green band.

Wearing of boots.

40.—All workmen must wear boots while at work; the boots should be well greased before being issued and a supply of grease (shahm) should be provided in order that the men may keep their boots soft.

Police accompanying working should always be accompanied by the sheikh of the quarter and as many police as may be necessary. A requisition for their attendance should be sent to the Police Commandant in towns or to the Mamûr in country districts, and sanction for their payment from the plague credit should be obtained as explained in para. 108.

Sheikhs are usually paid at the rate of from P.T. 50 to P.T. 150 a month while the gangs are working in their quarter; policemen receive P.T. 2 a day while specially employed on plague duty. These payments are made locally from the plague credit.

Before policemen return to their ordinary duty they should be carefully inspected to see that they are in good health. In order that this may be carried out, the Police Commandant or Mamûr should be requested to give notice when it is intended to change the police employed on plague duty. I man to fill car-holes with short from her, paid of morter glass, bottle of healten glass, bottle of of healten glass, bottle of out of healten (1:40), trepwel and long, and long of the distinguished by a yellow healt of or the arm, and rashashees by a grass band.

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Equipment of gangs.—42.

No. to be sent from Stores for each gang, including reserve.

3 6	the In
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Not sent from Stores.

One set only to be sent from Stores to each locality.

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Equipment for a Gang.

Obtained from Headquarters.

3 half-barrels (bastilla) marked at 70 litres.

2 sweeping brushes (maqashah).— Local price about P.T. 3 ½.

3 baskets (maqtaf): 2 for rubbish, 1 for broken glass.—Local price about P.T. 2.

1 watering-pot (rashashah). 1 stable-broom (furshat stable).

7 pails (gardal): 4 for rashasheen, 1 for mortar, 1 for milk of lime, 1 for barrel man.—Local price P.T. 5-10.

1 small barrel (barmil) for sublimate

solution.

1 tap (hanafia) for above.

1 small demi-john for carbolic acid solution.

l enamelled measuring cup (cûz) for sublimate holding 350 c.c.

1 tin measuring cup (cûz) for carbolic holding 500 c.c.

7 sacks (kees).

1 fass.

1 short iron bar (seekh) for stopping ratruns.

2 lamps (fanûs).

1 trowel (mahârah).

1 whitewash brush (furshat geer).

11 pairs of boots (goz gazmah).

Obtained locally.

1 stirrer, a piece of wood about 75 centimetres long for stirring solutions.

1 paraffin tin (safihat gaz) for dead rats.— Local price P.T. 1.

1 bottle (qizaza) for carbolic acid solution 1:10.

2 barrels (barmil) for transport of water.

— Local price about P.T. 30 — or

8 paraffin tins (safihat gaz) for transport of water.—Local price about P.T. 1.

Equipment for Fire Attendants.

Obtained from Headquarters.

1 long iron rod (seekh) for stirring the fire.

1 strong rake (karak).

1 fass.

1 pair of boots for each man.

Squipment

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strend rate (karak).

Water-supply. 43.—Water-supply to the gangs.

A. In Towns.—(1) When there is a Town Council, some of the Council water-carts may be used for the transport of water.

The half-barrels may be taken to the place of work by the Council carts used for street-cleaning and should be ready filled before the arrival of the workmen. A great advantage of the use of these water-carts is that their capacity is known, usually about 1 cubic metre, and the amount of sublimate used can be approximately checked.

- (2) When these carts are not available, or when they are unable to approach the place of work on account of the narrowness of the streets, small open carts (arabyat karro) should be hired. One will be required for each gang. Two barrels should be secured on the cart and they should be filled from the stand-pipes used by the town watering-carts by arrangement with the Governor or Mudir.
- B. In Villages.—(1) Water may be brought by the water-carriers (saqqayeen). In most cases sufficient water-carriers cannot be obtained. In these cases (2) small carts may be used to transport several water-skins each, or boys or girls may be employed to carry water in ballasses or paraffin tins; the latter are preferable. From 4 to 6 boys or girls will be required for each gang according to the distance of the water from the work.

In using paraffin tins it is convenient to have a piece of wood nailed across the opening of the tin; one tin is then attached by a piece of rope to each

Water-supply. 43. - Water-supply to the gang

A. In Town (1) When there is a Town town is the Council water-carts any

deed for the transport of water,

The ball-barrels may to taken to the place of work by the Council carrie used for street-place of another the ready filled before the arrival of the workmen. A great advantage of the ese of these subgreeners is that their capacity is known, usually about I cubic mother and the amount of sublimate ased can be approximate the approximate the approximate of the approximate o

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B. In Prilinger (1) Water may be brought by the water-carriers (augusyrean), in most cases sufficient water-carriers cannot be obtained. In those cases (2) small carts may be used to transport several water-skins each, or hows or girls may be employed to carry water in bellasses or paratile ties; the latter or preferable. From 4 to 6 boys or girls will be required for each gong according to the distance of the water from the work.

is using paradio time it is convenient to have a piece of wood nailed across the opening of the tim; one tim is then attached by a piece of rape to each

end of a wooden yoke which is carried across the shoulder. It is advisable to have a man stationed at the place for drawing water to fill the vessels and, if necessary, place them on the children's heads. River, canal, or well water should be used for making disinfecting solutions, and the stagnant water of birkas should be avoided.

Removal 44.—Removal of rubbish.

A.—In towns, each gang should be provided with a cart (or carts) for the removal of rubbish and transportation of the equipment to and from the work.

- 1. In some places the two-wheeled carts (arabyat sanduq) used for carrying stone and sand can be obtained. The sides and floors of the carts should be made good with tin when necessary, so as to prevent the escape of dust, etc.; the rubbish from the houses can then be emptied from the sacks or baskets into the cart.
- 2. In other places small four-wheeled carts (arabyat karro) can be hired. In this case the sacks filled with rubbish should be sent to the burning-place on the carts.

Drivers' wages are usually included in the contract price paid for carts and horses. The usual daily hire of cart, horse, and driver is from P.T. 12 to 20.

B. In Villages, where carts cannot usually be obtained, rubbish must be removed in sacks on the backs of donkeys; one donkey will usually be required for each gang.

The usual daily hire for donkey and donkey-boy is P.T. 10.

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Supervision of removal of rubbish.

45.—It is advisable to point out to cart-drivers and donkey-boys the exact road which they are to

take to the burning-place so that they can be kept under supervision, as they are much inclined to tip rubbish at other places to save themselves trouble.

When the cart or donkey is loaded and ready to start for the burning-place, the disinfector should give the driver a ticket marked with the number of the gang; when rubbish is sent in sacks the number of sacks forwarded should be noted on the ticket. The ticket is handed by the driver to the fire-attendant who retains it; by calling for the tickets on each inspection of the burning-place a check can be kept upon the amount of rubbish burnt.

Information to 46.—When plague breaks out foreign Consuls. in a town the Consuls should be visited and the mode of disinfection explained to them. They should be requested to give a general sanction for the visiting and disinfection of all houses in which persons of their nationality may be residing.

In case of objection to disinfection raised by a foreign subject, special application should be made to the Consul before proceeding.

No foreign patient should be removed to hospital without previous consultation with the Consul, and no closed house belonging to an absent foreigner should be opened without reference by note or otherwise to the Consul whom it may concern.

Supervision of removal of rubbish.

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When the cart or donkey is leaded and ready to start for the harming-place, the disinfector should give the driver a ticket marked with the number of the gang; when rebided is sent in sacks the number of a is forwarded should be noted on the ficket. The ricket is handed by the driver to the fire-attendant who remins it; by calling for the fickets on each respection of the jurning-place a check can be kept took the amount of rubbles heres

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No foreign patient should be removed to nospital without previous consultation with the Chunan, and no released house belonging to an absent foreigner should be opened without reference by note or officeraise to

the Consul whom it may concern.

Hours of work. 47.—Hours of work are usually the following:—

 Summer
 ...
 ...
 6 a.m. to 12 noon.

 2
 p.m. to 5 p.m.

 Winter
 ...
 6.30 a.m. to 12 noon.

 1
 p.m. to 4 p.m.

The afternoon work is done early during winter in order to give the houses time to dry before night.

Half-holiday. 48.—It is customary to stop working on Fridays at noon, but one gang should remain on duty at the store during the afternoon in case of emergency. A full day's pay is given for Friday.

Disinfection.

work. by gangs at the store and the roll called by the clerk, beginning with No. 1 gang; should any man be missing he should be replaced by one of those who usually wait about hoping for work. When this method is found impossible owing to frequent changes amongst the personnel of the gangs, the disinfectors should be instructed to write in their notebooks each morning the names of the men composing their gangs. These lists will be handed to the clerk at the end of the day's work and from them he will. each evening, make up the wages account to date on the Register No. 64 C.G.

Careful enquiry should always be made into the cause of absence of workmen.

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Half-holiday. 48.-21 is costoning to the seen but were the graph on this coston to the story during a dairy at the story during a

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Moving off to work.

50.—As each gang is found complete the disinfector with the raïs of kanaseen, raïs of rashasheen, and barrel-man, should remove the previously checked equipment from the store and provide new men with boots.

In towns the equipment should be packed into the cart; in the country the equipment should be carried by the men, and the gang should move off to work at once.

General plan of action. be done by blocks of buildings (mirabba') and not by streets; if each gang pursues its work in a definite direction either to the right or to the left hand, premises cannot be overlooked. The work of the gangs should be concentrated first upon the centre of the greatest infection and its surroundings; from this spot general disinfection should proceed on a definite general plan. Emergencies should be dealt with by a specially efficient gang.

Each evening the work of the next day should be pointed out to disinfectors and the sheikh el hara, who should warn the inhabitants to prepare their houses.

Solutionmaking.

52.—On arrival at the place
of work, a convenient position,
interfering with traffic as little as possible, should be
chosen for the barrel-man with his implements and
the water-cart.

Two of the half-barrels should be filled with water to the 70-litre mark, 350 c.c. of sublimate solution

Moving off

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Two of the balf-barrels should be filled with water to the 70-like mark, 350 c.o. of sublimate solution added to each with the enamelled measuring cup, making a solution of 1:1,000, and the whole well stirred.

The third half-barrel is used for making carbolic acid solution; 2,000 c.c. of carbolic acid solution added with the tin measuring cup to 70 litres of water make a solution of 1:35, which is sufficient for the purpose.

No sublimate or carbolic acid must be put into the half-barrel until it has been filled to the 70-litre mark with water, and until the half-barrel has been completely emptied no more water or sublimate should be added to the solution. Each half-barrelful must be separately made.

This must be constantly impressed upon the barrelman and those who bring the water, as it is of the utmost importance that disinfecting solutions should be of constant strength.

The pails of the rashasheen must be filled by the barrel-man with his own pail; the latter must not be left in the half-barrel or placed on the ground; when not in use it must be placed on a piece of clean sacking or a board.

The workmen must on no account be allowed to dip their pails into the half-barrel.

Work of kanaseen. 53.—The disinfector should enter the house and get his men to work, beginning at the top of the house and working downwards. At the commencement, in order to prevent delay, both kanaseen and rashasheen should

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olded to such with the enamelled measuring cop, and the whole well intends.

The shift deal-larged is used for making enclosed and solution added with solution; 2,000 a.c. of esciolic and solution added with singurance and solution of water and solution of 1,35, which is sufficient for the parties of water and to a shift in a sufficient for the parties of the sublimate or carbelle, acid must be partied into the ball-barrel out? It has been filled to the rather water and out; the half-barrel has been been delicated for the solution. Each half-barrelight must be about to the solution. Each half-barrelight must be solution.

This must be constantly impressed upon the largeloran and those who bring the water, as it is of the constant importance that disinfeading solutions should

The poils of the cusheshoen unust be filled by the introduced made in the half-based or placed on the ground; when the in the half-based or placed on the ground; when not in use it must be placed on a piece of clean sacking or board.

The workings must on no account be allowed to die

Work of the house and get his men and working to working of the house and get his men in working to working at the top of the house and making at the commencement, in order to himself and make and the street to himself and make and make the street allowed.

work at cleaning out the house and moving the furniture.

The roof should first be swept clean and all light articles of furniture and bedding from the house spread out on the roof in the sunlight. When sticks and corn-cobs, etc., for fuel, are found on the roof, they should be stacked tidily in the centre so as to expose the corners and sides to the sunlight. Fuel should not be taken away.

All animals should be removed from the house. When rabbits cannot be removed the burrows should be stopped up with bricks.

Heavy articles of furniture must be moved out from the walls and placed near the centre of the room; capboards containing food should be opened and emptied.

Tibn and grain must be packed into sacks and put into a safe place until the house is dry enough to receive it (see para. 65).

Small quantities of grain and tibn can be dealt with by the gang.

The house must then be thoroughly brushed down from top to bottom; all rags and sweepings must be collected in the baskets and put into sacks which, when full, will be put into the rubbish carts or carried away by the donkey to the burning-place.

No rubbish is to be deposited in the street or thrown into the street from the roofs of houses.

When objection is raised to the removal of rags, old sacks, etc., these should be placed in a bucket of sublimate solution to soak for ten minutes and then spread out on the roof to dry.

pork at cleaning out the house and moving the

The roof should first be swept clean and all light riddes of furniture and bedding from the house spread out on the roof in the smalight. When sticks and cornectly, etc., for Incl., are found on the roof, they should be stacked tidily in the centre so as to expert the corners and sides to the smalight. Find should be taken away.

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into the street from the roofs of houses.

When objection is raised to the removal of rags, ohi wells, etch these should be placed in a bucket of subtimate solution to soak for ben minutes and then spread out on the roof to dry.

Collections of building stone and bricks should always be removed from the houses, placed in the open air, and soaked with the sublimate solution.

Rotten boards in floors should be taken up and the space under the floor thoroughly cleaned and afterwards disinfected. This is especially important in the case of grocery stores.

Work of rashasheen. of rooms or houses have been cleaned, the kanaseen will continue cleaning other houses and the rashasheen will begin their special work, commencing with the upper floors and working downwards.

Two men will bring the disinfecting solution from the half-barrels in their pails and fill the watering pot; the raïs will then soak the walls to the height of one metre and the floors, and he will be followed by the man with the stable-broom who will rub the solution thoroughly into the floors and corners. Cupboards which have contained food and all recesses must be thoroughly soaked, but pools of solution must not be left lying on the floor. Clean clothes in boxes and cupboards need not be disinfected.

Zereebas used exclusively for animals should be disinfected with carbolic acid solution 1:35, including the mangers from which all forage must first be removed. Hen-coops and pigeon-lofts should be cleaned and disinfected; this must be done with discrimination in order to avoid the destruction of eggs.

Open courts (hosh) exposed to the sunlight should

need ovad sessed so smoot to. decession

the buildmerels in their pails and fill the watering per horsegaly into the floors and commers. Cophoned-

be thoroughly cleaned, and stones and other articles piled in the centre so as to expose corners and angles to the sunlight; they need not be disinfected with sublimate or carbolic unless a case of plague has occurred in the house.

All food must be removed from the various receptacles of the oven (the balat, the taka, and the qadoos) before disinfection takes place, and no disinfecting fluid is to be left in the receptacles after disinfection is finished.

In the case of dark houses a taka in a furn is frequently overlooked.

Rat-holes. 55.—When the disinfection of a house is finished all rat-holes must be thoroughly opened up, a small quantity of carbolic solution 1:10 poured into them, some broken glass placed so as to plug the bottom of the rat-run and held in position by mortar, and the hole stopped up flush with the wall with mortar.

A good mortar for this purpose may be made with one part of slaked lime and two parts of homra.

All dead rats and mice which may be discovered by the workmen should be put into the paraffin tin kept for the purpose and covered with carbolic acid solution 1:10.

Limewashing. 56.—When it is decided to limewash, it will be done at this stage (see para. 67).

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theroughly eleganed, and shapes and other articles and in the centre so as to expose corners and angles to the smallights they need not be disinfected with a bilinears for carbolic unless a case of plague ims occurred to the homes.

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Limeweshing. 56.-When it is decided to

stage (see para, 67).

of the "house of the case."

57.—In the disinfection of the "house of the case" the process is even more thorough; all clothes

and soft goods must be disinfected, either by passing through the disinfecting machine in towns where these exist, or in other places by soaking in sublimate solution (1:1,000) followed by thorough drying in the sunlight; ceilings, walls, and furniture must be well sprayed with sublimate solution by means of the Vermorel pump, and the whole of the walls in the house limewashed.

Every room in the "house of the case" must be thoroughly cleaned and disinfected. It is to be distinctly understood that the instructions contained in paras. 1 to 24 apply to each fresh case of plague which occurs, whether isolated or in an outbreak.

houses and rooms.

58.—In better class houses, where no case of plague has occurred, thoroughly clean rooms are

occasionally found; if they are on upper stories and no signs of rats are found, Medical Officers may order these rooms to be left untouched. Rooms which have not been disinfected must be specially reported to the Inspector in charge of disinfection.

The kitchens, food cupboards, and latrines of these houses should be done, as well as any other rooms that are dark or damp or not thoroughly clean.

In fairly clean houses with good wooden floors, in which no case of plague has occurred, after thorough cleansing the sublimate solution should be applied to

Disinfection of the case.

thouse of the case the process as

of soft goods must be disinfected, either by passing to copy the disinfecting machine in towns a here these time, or in other places by sessing in eddinate soluin. (1:1,330) fellowed by thereugh drying in the collings walls, and furnitum must be wellcontinued with sublimate solution by means of the Vercontrary of with sublimate solution by means of the Ver-

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Exceptional houses

SB - In better class bouses, where on east of plague has one curred, thoroughly clean rooms are

or signs of rate are found, Medical (efficient may order these rooms to be left untouched. Hooms which have not been disinfected unto the specially required to the

The Litchens, food cuphonds, and

to fairly clean houses with good wooden floors, in which no case of plague has occurred, after thorough featuring the sublimate solution should be applied to

the house, cut off from the main block by a door which can be locked.

- (b) In a small house.—All the rest of the inhabitants, except the attendant, must leave the house.
- (c) In both cases (a and b).—A Police agent or ghafir must be stationed at the door at the expense of the owner or tenant of the house, but under the control of the Public Health authorities, the sanitary arrangements must be carried out to the satisfaction of the Public Health authorities. All cases treated in their own houses must be specially reported to the Divisional Inspector.

The patient may be attended by a private doctor if desired, but the isolation and sanitary arrangements must be carried out to the satisfaction of the Public Health authorities.

It is advisable to inform sheikhs and notables of these conditions at the beginning of an outbreak.

Precautions 71.—1. There must be, in the to be taken by sick room:—

(a) A large tub containing a solution of corrosive sublimate (1:2,000) or carbolic acid solution (5%) and a basin full of corrosive sublimate solution for the hands.

- (b) Efficient means for boiling water.
- (c) Two vessels to receive the dejections.
- 2. The patient's room should contain as little furniture as possible.
- 3. All linen or clothing removed from the patient or the bed must be placed immediately in the barrel of

the bouse, cut, off from the mein block by a door which

(6) In a small house. - All the rest of the inhabitants,

the both agrees in the door at the expense of the events of the events of the events of the feether included in the house, but under the control of the fields and at the semilary arrangements of the fields and on the semilary arrangements of the Health antiborities. All course treated in their control of the Health at the specially reported to the Divisional

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Precautions 71 -- 1. There must be, in the to be taken by sick room :--

solution of coprosive sublimate (1: 2,000) or carbella

Micient means for boiling water.

(d) I'wa vessels to receive the dejections.

The patient's room should contain as little fumi-

2. All lineauer clothing removed from the patient or

disinfecting solution and allowed to remain there for four hours before being removed.

Linen or clothing which has become soiled through discharges should be changed at once and disinfected as above.

4. Spoons and other metal table utensils should be plunged into boiling water immediately after being used by the patient.

The table utensils, water vessels, and toilet articles must be kept in the sick room and must not be used by any one but the patient.

- 5. The stools, urine, and sputum of the patient should be received into a vessel containing a small quantity of carbolic acid solution (5%). The amount of disinfectant must subsequently be made at least equal in volume to the amount of material to be disinfected; the vessel must then be covered and allowed to stand for half an hour before the contents are emptied into the closet.
- 6. While in the patient's room a large overall (gallabia) should be worn which should completely cover the clothes; on leaving the room the overall must be taken off.
- 7. The hands must always be disinfected with sublimate solution after touching the patient and great care must be taken never to use table utensils (spoons, cups, gullas, etc.), which have been used by the patient.
- 8. The floor of the patient's room must be disinfected regularly twice a day with sublimate solution, and

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distribution and allowed to remain there for

times or ciothing which has knowne soiled through

t. Spoons and other metal table utensils should be plunged into boiling water immediately after being used by the patient.

The table atepsils, water vessels, and toiler artifices artifices are legal in the slok room and must not be used water one but the outliest.

S. The stock, urine, and spurious of the patient should be received into a vessel containing a small quantity of carbolic acid solution (5°C). The amount of disheren rank nearly subsequently be made at least equal in column to the assent of material to be disinfected; the vessel must then be covered and allowed to shault to be force the contents are emptied into the clear.

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The bands must always to disinfected with addition solution after fouching the patient and and are true to use table atomsite come cups, guliss, stort which have been used by the rations.

A. The floor of the patient's room senst businessed

also whenever it is soiled by the dejections or sputum of the patient.

- 9. No person must be allowed to enter the patient's room without a written order from the doctor in charge.
- 10. If the patient dies, the clothing should be damped with sublimate solution before it is removed, and pledgets of absorbent cotton steeped in sublimate solution should be inserted into the nostrils and mouth to prevent the escape of fluids. If for religious reasons ceremonial washing of the body is necessary, it will be done by the moghassil or moghassilah in accordance with para. 11.

Special Precautions in Outbreaks of Pneumonic Plague.

- 72.—The special precautions to prevent the spread of pneumonic plague may be grouped under the following headings:—
 - I. Isolation of all possible contacts.
- II. The management of the isolation camp (cordon).

 III. The amount of disinfection required.

I.—ISOLATION OF ALL POSSIBLE CONTACTS.

Isolation of all possible contacts.

73.—The intense personal infectivity of pneumonic plague renders it imperative that all

persons who have been in contact with a case of pneumonic plague must be isolated in an isolation camp for a period of ten days from the date of the last exposure to infection.

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Special Precautions in Outbreaks of Postmonic Plague.

72.-The special processions to prevent the sprint

I. Technica of all possible contacts.

II. The management of the includen camp (corden).

III. The emount of distribution required.

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Isolation of T3.--The injeries personal incontacts.

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of expense to infertion.

In practice the ten days' isolation is calculated from the date of isolation or death of the patient.

Method of drawing up contact lists.

74.—A contact list must be made out for each patient by the Medical Officer himself by ques-

tioning intelligent members of the family concerned; the omda and sheikh should always be present during its compilation and should verify and seal the list as complete.

In order that names may not be omitted the lists must be made in the following order:—

- 1. Name of the case; husband, wife or wives, children and their families if any.
- 2. Brothers and sisters of the case; their wives or husbands and children; the wives or husbands and children of the latter if any.
 - 3. Father of the case:—
 - (a) His brothers and sisters; their wives and husbands and children; families of the latter if any.
 - (b) His father and mother (i.e., grandfather and grandmother of the case).
 - (c) His uncles and aunts and their families.
 - 4. Mother of the case :-
 - (a) Her brothers and sisters; their wives and husbands and children; families of the latter if any.
 - (b) Her father and mother (i.e., grandfather and grandmother of the case).
 - (c) Her uncles and aunts and their families.

In practice the ten days' isolation is calculated from

Method of drawing up contact lists.

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(c) His prochis and numbs and their families.

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(a) Her brothers and sisters; their wives and brother brothers of the letter if any.

(b) Her father and mother (i.e. grandfather and grandfather and

(d) Her medes and approximately families.

5. Special contacts: Persons, not relatives, who have been known to have been in contact with the patient, such as near neighbours, employees, etc.

The general contact list having been completed, each living person whose name appears in it is to be given a serial number.

These names are afterwards entered in the contact book kept at the isolation camp by the Medical Officer (see para. 84).

Special points in making contact lists. 75.—The following special points must be noted in making out contact lists:—

- 1. When the patient or deceased is married, the relatives of both husband and wife must be entered in the manner described in para. 74.
- 2. The contact list must include the names of all members of the family whether alive or dead. In the case of those members of the family who are dead it must be remembered:—
 - (a) To record in the list the names of the husbands or wives and families of the deceased persons.
 - (b) To find out when and where these persons died. "Mat min zaman" often means that the person died a few days previously of pneumonic plague and was secretly buried.
- 3. In the case of every marriageable male or female in the list the following enquiries should be made, otherwise important contacts may be omitted:—
 - (a) Whether they are married.
 - (b) How many times they have been married.

When the patient or deceased is married the remoters of the family whether alive or dead. . In the or wives and families of the deceased persons. show no that the latterwing enquiries should be made.

(b) How many times they have been married.

- (c) Whether they have been divorced (mutallaq). Divorced persons should be entered in the same way as though the marital relation still existed.
- 4. In the case of persons, absent from their villages, whose names are recorded in the contact lists, the following information must be obtained:—
 - (a) The date of leaving their village.
- (b) The name of the place to which they have gone. If they have recently left the village they must be put under observation either in the isolation camp of their own village or in a camp near the village to which they have fled.

Every effort must be made to find these "runaway contacts"; if the search is unsuccessful the markaz should be informed as well as the adjoining marakiz. Should the search by the omda and Police be unsuccessful, a reward, not exceeding 20 piastres, varying in accordance with the importance of the contact, should be offered for his or her discovery. All such cases must be reported to the Mudiria and Divisional Inspectors.

Cases previous to discovery of outbreak.

76.—It frequently happens that the "first suspected case" is not the "first actual case" in the outbreak.

The Medical Officer should therefore endeavour to discover whether secret burials have taken place recently by inspection of the cemetery and questioning the barber, turaby, and hanuty.

If such is the case, such persons' relatives are to be

Divorced persons should be entered (mutalles and Divorced persons should be entered in the same way as though the narital relation still axisted.

It is the case of persons absent from their ages, whose manes are recorded in the center.

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treated as contacts and full lists must be made of them as in para. 74.

The death register must be inspected and special enquiries made as to the relationship and proximity of residence of the persons whose names are entered therein. Suspicion as to the cause of their deaths would be aroused by their family relationship or close personal contact with the "first suspected case," or by the history of a short illness.

The Medical Officer should not readily believe histories of prolonged illness but should carefully investigate such statements.

Collection 77.—Arrangements must be made at once for the collection of the most important contacts, i.e. those persons living in the patient's house and the nearer relatives.

Their names must be written out, numbered with their serial numbers, and handed to the omda or Police.

The remaining contacts will be brought in as time allows and when arrangements have been made to receive them.

The bringing in of large numbers of contacts can only be done efficiently by the Police; as soon, therefore, as the Medical Officer decides that a considerable number of contacts are to be isolated, he should communicate with the Police and request their assistance.

Search for 78.—When the principal confurther cases. tacts are found the omda and sheikhs should search the village systematically for

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The Medical Officer should not readily believe blockers of probanged illustrate but should emphalist to vertigate anob statements.

Collection 77.—Arrangements must be of contacts, tends at once for the collection of most important contacts, i.e. these potents living

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Sourch for 78 -When the principal com-

other sick persons; all suspicious cases must be isolated.

Selection of site for dical Officer will select the site for the Isolation Camp and Hospital (cordon); it must be to the south of the village, not less than fifty metres from dwelling houses, and capable of allowing considerable expansion of the camp.

Temporary shelters should be erected immediately for the patients and the most important contacts.

Bûs huts are best; tents should only be used to tide over a pressing emergency until huts can be built.

Demand for equipment.

80.—The Medical Officer will next calculate the amount of equipment required for building and equipping the Isolation Camp and Hospital (see paras. 90 and 91) and will then mark out the position of the various huts in both sections.

SUMMARY.

SPECIAL PRECAUTIONS IN PNEUMONIC PLAGUE.

- 1. Request assistance of Police.
- 2. Make "general" contact list.
- 3. Give "special" contact list to omda or Police for collection of most important contacts.
- 4. Select site for Isolation Camp.
- 5. Make temporary accommodation for sick and most important contacts.

other sick persons; all suspicious cases must be

Selection of site for dieal Officer will select the site for solation camp. the Lealetine Camp and Resultal

rordom); it must be to the south of the village, not thus filly andres from dwelling houses, and espable

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PERSONAL PRESCRIPTION IN PERSONAL PRACTICE.

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Make temporary accommodation for sich and most important

the floor and walls with the Vermorel pump, or the floor and walls may be washed with sublimate solution by means of a clean piece of sacking (khaisha).

In some cases a bucketful of sublimate solution and a clean piece of sacking may be given to a servant of the house who will wash down the floors and walls under the supervision of the disinfector.

No rooms on the ground-floor should be left without disinfection, except those containing quicklime.

Mosques should not be disinfected by the gangs; sublimate or carbolic solution should be offered to the manager (imam) of the mosque so that the mosque-servants may carry out disinfection should the manager desire to do so. Mats should be removed and the whole building thoroughly swept before the solution is applied, and the result should be inspected by the Medical Officer in charge. Other places of worship should be treated in an exactly similar manner.

Closed houses 59.—When houses or rooms are found closed and the occupier absent, enquiry must be made as to the nationality of the occupier.

In the case of a local subject a note should be sent to the Police authorities in the towns, or to the omda in the villages, who will cause the house or room to be opened and close it after the disinfection is finished.

A procès-verbal of the circumstances should be drawn up and filed in the markaz for future reference.

In the case of a foreigner, in the towns, the Consul concerned should be requested to send a kawass to the floor and walls with the Vermorel pump, or the

In some of a chean piece of sacking (khalaba).

In some opices a buckletful of sablimate solution and
to dear piece of sacking may be given to a servant of
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open the house. In the villages, when the authority for opening the house of a foreigner has arrived from the consulate, the Mamûr should be requested to send a Police officer to open the house, remain during the disinfection, and close the house when the disinfection is finished. The Police officer is responsible for the contents of the house during the disinfection. In each case a procès-verbal should be drawn up and filed in the markaz.

Clothes and bedding. 60.—At the commencement of a general disinfection of a village, the omda should be requested to instruct the sheikhs el balad to order all the inhabitants to place their mats (haseerah), bedding, and spare clothing on the roof in the sunlight for five successive days. A daily inspection should be made to see that this order is obeyed. This very important proceeding should be carried out whenever possible.

Special work of permanent disinfector.

61.—In small outbreaks the permanent disinfector, when present, should undertake the disinfection of the "house of the case," its contents and surroundings.

To cope with this work he must be given charge of an ordinary gang.

Should considerable numbers of fresh cases occur, the services of the permanent disinfector should be employed in the disinfection of infected clothing and soft goods; the "house of the case" and surroundings should be disinfected by one of the other gangs.

of ear the house. In the villages, when the authority for opening the house of a foreigner has arrived from the consulate, the Mann'er should be requested to send a Police officer to open the house, remain during the disinfection, and close the house when the disinfection is finished. The Police officer is responsible for the contents of the house during the disinfection. In each case a processorbal should be drawn up and filed in the markax.

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Special work of permanent disinfector.

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an ordinary gang.

Should considerable numbers of freeli cases occur, the services of the permanent disinfector should be employed in the disinfection of infected clothing and soft goods; the "bonse of the case" and surroundings should be disinfected by one of the other many.

Disinfection of shops and large stores. 62.—The disinfection of shops and large stores containing articles liable to be damaged by moving or

deteriorated by exposure to damp, must be done with great care in order to avoid claims for damages.

When valuable goods have to be moved from one store to another, merchants should be requested to remove the goods by means of their own porters, who understand the work. A certain sum for the removal of each package should be agreed upon, usually 1 to 4 milliemes, according to the distance. When carts have to be used to carry the goods 4 milliemes a package is the usual charge.

When very large stores have to be cleared it may be found more economical to pay the porters (shayaleen) by the day. The usual wage of a porter is P.T. 10 a day. When the store consists of several rooms which communicate, one or more rooms should be cleared at a time, disinfected, allowed to dry, the goods replaced, and another portion of the store cleared. The work of moving heavy goods is much facilitated by the employment of one or two hand-barrows, such as are used in mills for moving sacks of flour.

Breakages.

63.—When clearing stores containing breakable articles such as glass and china, an Inspector or Medical Officer should always be present. Articles broken by the workmen should be entered in a list and put in a special place apart; the price of each article can be found in the merchants' file of invoices. Care must be taken that

When your large stores have to be civered it may be

63 .- When elegring stores con-

the broken article corresponds with the description in the invoice, and that articles broken previously are not entered in the list.

Bills for breakages must be sent in directly after the disinfection of a store is finished.

Inspectors should pay for small breakages in houses at once from their own pockets after proper enquiry and take a receipt from owners; the compensation can subsequently be recovered on production of the receipt (see para. 104).

Valuation of 64.—In the ports, in case of a broken articles. difference of opinion as to the value of an article which has been broken, the article should be removed to the custom-house and the Director of Customs requested to obtain the decision of the official valuer.

Special grain and tibn gang. of grain and tibn are frequently found in the villages, and it is impossible for the ordinary gangs of disinfectors to deal with them without disorganizing the work.

In these circumstances one or more special gangs, composed of 1 raïs and 4 boys, or young men, should be formed; each gang should be provided with a large number of sacks, say 40, and the raïs must be provided with a note-book. The duties of these gangs consist in conveying the sacks to the houses, assisting the inhabitants to fill them, and recovering the sacks when the need for them is passed.

the involven article corresponds with the description in

Citie for breakages must be sent in directly after

Inspecting should pay for small breakages in bouses at once from their own pockets after proper caquity and take a receipt from owners; the compensation can subsequently be recovered on production of the receipt (see parts 104).

Valuation of 64.—In the ports, it case of a broken articles, difference of opinion as to the stag of an article which has been broken, the article bould be comoved to the custom-house and the libroduce of the official cations requested to obtain the decision of the official cation.

Special grain 65.—After harvest large stores and tibn grain and tibn are frequently and tibn grain and tibn are frequently count in the villages, and it is impossible for the colleger gangs of disinfectors to deal with them works.

In these oir quantumes one or more special gangs, composed of I rate and I boy's, or young men, should be formed; each gang should be previded with a large manner of seeks, say 40, and the rate must be provided with a large with a neighbord. The duties of those gangs consist in conveying the sacks to the houses, assisting the inhabitants to fill them, and recovering the sacks when

The method of procedure is as follows: At the beginning of the day's work the Medical Officer in charge, accompanied by the raïs of the tibn gang, enters all the houses which will probably be disinfected during the day, and points out all the grain and tibn which must be removed. The raïs makes a note in his note-book of each case and allows such a number of sacks for each case as he thinks necessary. The sacks are then brought to the houses by the boys of the gang who assist the inhabitants to fill them, and the raïs notes the number of sacks left in each house against the name of the proprietor.

When the disinfecting gang arrives at the house the sacks of grain or tibn are removed and put into a safe place; when the disinfection is finished and the floors are dry, the grain is returned to the house and the sacks are recovered by the raïs of the tibn gang who then obliterates the entry in that particular case.

The rais must account daily to the clerk for all the sacks issued to him.

End of the day's 66.—When the day's work is fiwork. nished all the gangs should return
with their equipment to the Store where the roll will
be called and the equipment checked. All dead rats
will be handed over to the person charged with the
duty of burning them.

The equipment and boots of each gang should be laid down separately in the Store so as to prevent confusion and save time in the morning.

When the water supply to the gangs is done by

The method of procedure is as follows; At the friction of the day's work the Medical Officer in burge, accompanied by the rate of the tibe general burge, accompanied by the rate of the tibe general orders all the procedures and the distortion which must be removed. The rate meters a note of the bis some-book of each case and altowerseed a mesher of suchs for each case as he thinks, necessary. The case are then brought to the bouses by the boys of the geng who assist the inhabitants to fill there, and there are the named of sages left in each boxes.

When the disinfecting gang arrives at the house the action is in the series of the series of the following the finished and put into a suferior of the distribution is finished and the floors of the boust gang who are recovered by the rate of the the gang who

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The rate names account daily to the oberk for all the colors is not time.

End of the day's week is it-we the day's week is it-work work.

o ich their equipment to the Store where the pell will be called and the equipment obsolved. All dead rate will be handed over to the person classical with the

The equipment and books of each gang should be said down separately in the Store so as to per vent can-

When the water supply to the gangs is done by

means of small carts transporting barrels, the barrels should be filled at the end of the day's work.

wash as part of the routine of general disinfection, special whitewashers (mobayadeen) provided with lime brushes and pails of milk of lime should be attached to each gang. As a rule about four limewashers are required for each gang, but in places where little limewashing is required they may be reduced in number.

Well-lighted, airy rooms as a rule do not require limewashing, which should be confined to dark or damp rooms with no windows, latrines, kitchens, cellars, food-stores, and dark corners under stairs, etc. The walls of these places should be limewashed to the height of one metre from the ground; special care must be taken that the milk of lime penetrates thoroughly into the angle between the wall and the floor, and a strip (shireet) of the floor itself about 8 inches broad should be limewashed.

Grocers' store-rooms should always be done, and hen-coops and pigeon-cots when possible.

It is to be clearly understood that in the "house of the case" all the walls should be limewashed.

Rat-poisoning. 68.—When considerable numbers of dead rats are found during the course of disinfection the question of rat-poisoning has to be considered. The decision will depend upon the discovery or otherwise of rat-infection.

product small cards transporting barrols, the harrols

Woll-lighted, our rooms as a rule do not require lamp rooms with no windows, latrines, kitchens,

It is to be clearly understood that in the "house of the case," all the walls should be limewashed.

Rat-poisoping. period based rate and during the course of disinfession the question of rat-poisoning has to be considered. The decision will depend upon the discovery or otherwise of ratiolection. When undertaken, rat-poisoning should be carried out in a methodical manner. The most satisfactory poison (simm) is phosphorus paste, which can be obtained from headquarters. A supply of tomatoes should be obtained; the tomatoes are cut across and the pulp between the trabeculæ extracted; each half is then cut into four pieces and the hollows between the trabeculæ filled with the phosphorus paste.

The bait thus made should be carried to its destination in tin boxes provided with handles and covers.

The rat-poisoner must be provided with a glove, a sleeve fastened at the wrist and elbow by a piece of tape in order to protect his arm, and a lamp. He must work systematically, preceding the general disinfection by two or three days, and placing pieces of the bait well down into all rat-holes, in spaces under wooden floors, and in corners of locked-up stores. He must be careful to leave no bait about in places where children or domestic animals can get at it. He should proceed block by block, noting in his note-book each house as he finishes it. A reward for each dead rat brought to the store may be offered; the reward may at first be small, say 3 milliemes for rats and 2 milliemes for mice, to be increased if necessary.

In all cases of rat-infection particular attention should be paid to the state of health of the cats. Those found diseased should be carefully examined for buboes, and if necessary destroyed.

Site for the burning-place. 69.—The site for burning rubbish (mehall el hareeq) should be carefully chosen so as to avoid nuisance to the

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I hen moderation manner. The most estisfactory of its a moderation of paste, most estisfactory to be a moderated and the most estisfactory of the contract of the first its phosphorus paste, which can be seen to the formation of the market and market ball the paste of the half which the first of the half was settled; the first of the half was best one in the first of the hollows best from the contract of the hollows best one.

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The rat-possoner must be provided with a clove, a strong test possoner must be provided with a clove, a strong test passoner at the wrist and alone by a piece of the contest of an electrical strong and alone. He must be contest to the contest this area, and a lamp. He must be contest to the contest placed by provided this ball to the contest of the

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Site for the off -The site for burning rubburning places, this melant of horsest should be inhabitants from the smoke; it will therefore be at some distance from habitations. In towns it is important that a good road for carts should lead to it, but when donkey-transport is used, this is not of so much importance. It must also be so situated that there is no danger to houses or crops from fire, and no place should be selected in which children are in the habit of playing, as it will be found difficult to keep them away.

Rubbish should be tipped from the carts or sacks close to the fire, the inflammable articles separated from the dust by means of the rake and placed on the fire; finally, the dust itself should be levelled and the fire built upon it. A good deal of supervision is necessary to make sure that all rubbish is really burnt and not carried back into the houses.

It is sometimes necessary to change the position of the burning-place when the work is being carried on at too great a distance from the site originally chosen.

The man in charge of the burning-place should keep a tally of the number of sacks or cart-loads of rubbish dealt with during each day (see para. 45).

Isolation of the Sick.

Isolation in 70. — No patient should be private houses. treated in his own house, except cases discovered in a dying condition, unless isolation can be really efficiently enforced.

The following conditions must be fulfilled:-

(a) In a large house.—The patient must be placed with his attendant in an entirely separate portion of

in come distance from the smoke; it will therefore be at some distance from behitstions. In towns it is important that a good read for carts should lead to it, but when doukey-transport is used, this is not of it, but when importance. It must also be so situated to had no place should be selected in which children are in the babit of playing, as it will be found difficult to in the babit of playing, as it will be found difficult to

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from the deat by means of the rake and placed on the first finally, the dust itself should be levelled and the first basis against the levelled and the first basis against a good deal of supervision is

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the training each day (see para, 45).

fasterion of the Sick.

Isolation in '70. — No patient should be private house, except private houses treated in his own house, except and discovered in a dying condition, unless isolation

(a) In a large houses—The patient must be reliabled:

(b) In a large houses—The patient must be placed

(c) In a thendant in an entirely separate perion of

- 6. Calculate amount of equipment and order by telephone from mudiria store.
- 7. Remove sick to Hospital and most important contacts to contact section.
- 8. Disinfect house of the case.
- 9. Measure out positions of huts in hospital and contact sections.
- 10. As soon as equipment arrives erect huts in both Hospital and contact sections on the marked sites.
- 11. Request Police to collect more distant contacts.

II.—THE MANAGEMENT OF THE ISOLATION CAMP (CORDON).

Management of 81.—As the contacts are brought contact section. in they are examined by the Medical Officer; their names are marked off on the general contact list and all sick are at once isolated; the others are taken to the bath.

Bathing. 82.—A tamurgia must be in charge of the women's bath and a tamurgi in charge of the men's bath, and they must be actually present at the bathing.

Two half-barrels must be provided in each bath hut, the one containing a solution of 1:5,000 corrosive sublimate, the other containing a solution of 1:1,000 corrosive sublimate.

The contacts enter the bath hut and strip, placing their clothing in the 1:1,000 solution and bathing their bodies in the 1:5,000 solution.

They are then given clean clothing and are drafted into the huts in the contact section; a list of the

absolute among of equipment and order by belephone from muchina story.

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Measure our positions of tests in hospital and contact sections:

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and essented sections on the contact sites.

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11. The Management of the Isolation Came (Course).

Management of \$1.—As the contants are brought contact section: in they are examined by the Medi1. Officer; their names are marked off on the general contact list and all sick are at once isolated; the others are taken in the legif.

Bathing. B2.-A (amorgia must be in charge of the women's bath and a carge of the men's bath, and they must be

Two balf-barrels must be provided in each bath

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The contacts enter the lath hat and strip, placing neir clothing in the Lat. 1,000 solution and bathing their odies in the Lat. 0.00) solution.

They are then given elean clothing and are drafted one the links in the contact section; a first of the

occupants of each hut is written, nailed to a bed board and hung on the door of the hut. Thus:—

Hut contact lists.—83.	Cont Entered	(date)	
Nan	nes.	Ages.	
1			
2		Carlos Ca	
3			
et	c.	etc.	

Those persons who have been living in the patient's house or who are known to have been in close contact with the case must be placed in separate huts from the more remote contacts.

Cordon contact 84.—Each hut is then given a number and the names of the contacts are entered hut by hut in the Cordon Contact Book, which should be drawn out in the form shown on the pp. 52-53.

Disinfection of clothing. The clothes of the contacts must remain in the disinfecting solution for half an hour; they are then removed, dried, and handed back to the contacts to wear, the clean hospital clothing which was given to them being disinfected, dried, and returned into Store.

Release of certain contacts. 86.—When all the contacts of a case have been brought into the Isolation Camp, two males and one 00 -

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Those persons who have been living in the patient's house or who are known to have been in close contact with the case must be placed in separate buts from the case remote contacts.

Cordon contact 84 - Each but is then given a number muster and the number of the contact the desired but by but in the Cordon Contact on the pp. 52-53.

Distinfection of most remain in the disinfection clothing that the distinfection for half an hour; they are then removed, brief, and hunded back to the contacts to wear, the clean hospital clothing which was given to them being clean dried, and returned into Store.

Release of oartsin controls.

86. - When all the contacts of a case law been brought into the lasten Camp, two males and one

female from the more remote contacts may be allowed out to look after the affairs of the family.

They must come to the Isolation Camp twice a day for examination, and delay in presenting themselves, or non-attendance, should be met by returning them into isolation.

This privilege is not to be given:-

- 1. If there is much infection in the family.
- 2. If any of the contacts remain outside undiscovered.
- 3. If the case is one of death outside the hospital or secret burial after the discovery of the outbreak.

The fact that these persons are not in isolation must be noted in the general contact list and their names must be brought specially to the notice of the senior Inspector in charge.

Inspection of contacts in spected individually in their huts at least three times a day. This is

the most important measure in the prevention of the spread of infection inside the Isolation Camp, and nothing must be allowed to interfere with this examination. Any contact suspected of being ill must be isolated at once in a separate hut in the Hospital section; the remainder of the people in the hut, leaving in their hut all blankets, haseeras, etc., are taken to the bath and the disinfection process is repeated as on admission.

A note is made on the hut contact list of the name of the person transferred to the Hospital section with the date and hour of the transfer.

CORDON CONTACT BOOK.

Hut No. 6.

Contacts of case Ibrahim Zein Id Deen.

Admitted into Cordon 1st December.

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	48 0	the the notice of the	Lati	ods	arthy	non	l ad	Jen		
1	50	Mohamed Mahmud	×	×	×	×	×	×	×	×
2	45	Nafeesa Bent Ali	×	×	×	×	×	×	×	×
3	18	Ibrahim Moh, Mahmud	×	×	×	×	×	×	×	×
4	10	Atia Mohamed Mahmud.	×	×	×	×	×	×	×	×
L	45	Hassan Mahmud	×	×	×	×	×	×	×	×
6	40	Fatma Zein Id Deen	×	×	×	iso- lated sick.		dien Jab	III.	
7	14	Taha Hassan Mahmud	×	×	×	×	×	×	×	×
8	10	Zanuba Hassan Mahmud	×	×	×	×	×	×	×	×
Q	6	Hussein Hassan Mahmud	×	×	×	×	×	×	×	×
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			chi	1787	. 03						ber. Died 5th December. The family moved to Hut No. 15.
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CONDON CONTACT ROOM

Hut No. 6

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On the completion of the disinfection the contacts are placed in another hut, their hut contact list going with them; they then enter upon a new period of ten days observation and the fact is noted in the Cordon Contact Book (see para. 84).

The blankets, haseeras, cups, etc., in the old hut, are then thoroughly disinfected and dried; gullas are broken, and the matting of the evacuated hut is removed and burnt. The poles of the hut, which are left in situ, and the ground, are disinfected, and the site should not be used for a new hut for 48 hours.

The recurring necessity of changing the huts of the contacts is one of the reasons why it is so necessary to have ready for occupation a number of empty huts.

Every endeavour must be made to prevent the occupants of one hut from mingling with those of another; the contacts must be warned against this and habitual offenders should be confined alone in separate huts.

Promiscuous defæcation in the camp must be stopped, and when a large number of people are isolated a special man should be employed to keep the surface of the section clean and to see that the latrines are used.

Discharge of contacts, except as mentioned in para. 86, must be isolated for ten days.

On discharge, the process of personal and clothing disinfection is to be repeated as on admission.

the the completion of the disinfection the contacts of placed in another but, their but contact list going with them; they then enter upon a new period of tenders observation and the fact is noted in the Cordon between Rock (see tors. 84).

The blankots, baseems, caps, otc., in the old but, are then characted and dried; gullas are broken and the matting of the evacuated but is removed and burnt. The poles of the but, which are left and the ground, and the ground, are disinfected, and the site

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I remiscuous defineation in the camp soust be stepped, and when a large number of people are isolated a position man should be employed to keep the surface of the section clean and to see that the latrines are used.

Discharge of 88.-All contacts, except as contacts, must be must be must be must be

-clated for ten days,

On discharge, the process of personal and clothing

III.—THE AMOUNT OF DISINFECTION REQUIRED.

Disinfection in pneumonic plague have arisen in the course of bubonic or septicæmic outbreaks,

the indications governing the amount of disinfection required are those laid down in para. 25.

When there are, or have been, no cases of bubonic or septicæmic plague, and there is no evidence of ratinfection, the disease is probably imported and disinfection should be confined to the houses of the actual cases. Every endeavour must be made to discover the identity of the first case and to trace the movements of that case for fourteen days before discovery or death.

Should the patient have arrived in the locality recently, enquiry must be made in the place or places from which the infected person has come in order to determine whether or not plague infection exists in those localities.

Plague Hospitals.

Plague 90.—At the beginning of an outbreak, hospital equipment and tents for the number of beds required should be obtained from the mudiria or headquarters.

In towns where no special hospital for infectious diseases exists, an isolated building should be hired and converted into a hospital.

When a suitable building cannot be obtained a piece of waste ground must be chosen and a tent or mat

Disinfection in pusumonic plague.

89.--When mass of passuropic players by bayer arisen in the course of bubonic or septiments outbreaks,

notice indications governing the amount of disinfection

When there are, or have been, no cases of bubonio or equicemic places, and there is no evidence of ratbelowion, the disease is probably imported and disinfection should be confined to the houses of the actual
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Pingue Hospitals.

Piague hospitals,

outbreak, hospital equipment and

the mudirin or headquarters.

In towns where no special hospital for infectious

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When a suitable building cannot be obtained a piece of waste ground must be chosen and a tent or met

hospital erected. Floors should be levelled, well stamped down, and covered with a layer of six inches of sand.

In wet weather tents or huts should be covered with tarpaulins, and, if necessary, the floors may be boarded. Tarpaulins may be obtained from headquarters.

In small towns and villages, when the weather permits, temporary huts constructed of durra-stalks, mats, or other convenient material, should be erected.

In choosing the site for a temporary Plague Hospital it must be remembered that room for extension may be required.

Sections. 91.—Plague Hospitals should be divided, whenever possible,

into two sections, viz. :-

First section for plague cases.... divided into wards for males and females.

No doubtful case should be put into the plague section.

Accommodation A third section should be built to the north of the Hospital compound for the isolation of contacts. Separate shelters must be provided for male and female contacts and special latrines provided for their use.

Accommodation A hut for the guard should be erected close to the isolation huts for contacts and a special latrine must be provided for the guard.

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amped down, and covered with a layer of six inches

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In wel weather tests or buts should be covered with arepauling and, if necessary, the floors may be bearded.

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Sections.

91. Plague Hospitals should be divided, whenever possible,

I ret section for plague cases.... | divided into Second section for plague cases.... | wards for males Second section for doubtful cases. | and females. No doubtful case should be put into the plague

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Accommodation A third section should be built to for contacts, the north of the Hospital compound of the isolation of contacts. Superate shelters must be provided for unds and female contacts and special or may provided for their use.

Accommodation A but for the goard should be for guard, erected close to the isolation buts or contacts and a special latrine must be provided or the guard.

Mortuary. A special hut should be built at the south-east of the Hospital compound for use as a mortuary.

Patients' The site of the patients' latrines should be also to the south-east of the Hospital. All vomited matters, sputa, urine, and fæces, must be deposited in the latrine and covered with a layer of quick-lime.

In large camps the latrines for both contacts and patients may be placed to the east or west of the camp, at least ten metres from the nearest hut.

Kitchen. The kitchen should be situated to the south-west of the Hospital, and the water-supply arrangements should be in proximity to it.

Attendants. 92.—Medical Officers in charge of Plague Hospitals will engage attendants and make such arrangements for food supply as may be necessary (see para. 99).

Provision must be made for the separate treatment of males and females; and female attendants (tamurgia) must be engaged to look after the latter. Midwives (dayas) must on no account be employed as tamurgia.

It is often advisable to allow a female friend to remain in Hospital as attendant on a female patient or child, in order that the relatives may have more confidence that proper care is taken of the patients.

In the country, attendants are usually best obtained through the omda.

to in Hespital as attendent on a female patient or

dence that proper care is taken of the patients.

Disinfection. 93.—Tubs or half-barrels containing disinfectant solution will be placed in convenient positions and all used articles of clothing or equipment will be placed in them to soak for twelve hours before being again used.

A basin (magûr) containing sublimate solution for the disinfection of the hands of the attendants, should be placed outside each section.

When hospital clothing is provided, all patients' clothing should be disinfected on arrival at the Hospital.

When hospital clothing is not available, all patients' clothing must be thoroughly disinfected before the patient is discharged or before the clothing is handed over to the relatives.

Floors of wards and other Hospital buildings should be disinfected at least once a week with sublimate solution or quick-lime. The latter process is carried out as follows: Sufficient quick-lime to cover the floor is placed in a heap in the middle of the room to be disinfected, a small quantity of water is poured on the lime and the whole covered with a sack; in a few minutes the lime is converted into a powder which is spread evenly over the earth floor and watered with a watering can.

All soiled dressings and poultices must be burnt.

Precautions to be taken by Police and attendants.

94.—When Police are detailed as Hospital guards they should not wear their uniforms on duty in the Hospital, but should be dressed in

their cotton clothes. On returning to their ordinary

A basin (magter) containing sublimate solution for the divinientian of the hands of the attendants, sixuald a piscent outgide coch section.

When hospital clothing is provided, all patients of along should be disinfected on arrival at the Hospital.

When hospital ciothing is not available, all patients disting must be thoroughly disinfected before the patient is discharged or before the clothing is handed or before the clothing is handed

Ploors of words and other Hospital buildings should be disinfected at least once a wook with sublimate station or quick-life. The latter process is carried and as follows: Sufficient quick-line to cover the floor is placed in a beau in the middle of the room to be disinfected, a small quantity of water is poured on the lime and the whole covered with a sack; in a few covered with a sack; in a few covered with a sack; in a few covered events over the earth floor and watered with a

All soiled dressings and poultices must be burnt.

Precantions
to be taken by
Police and
attendants.

94.—When Police are detailed as Hospital grands they should not wear their uniforms on duty in the Hospital, but should be draued in

heir coiten clothes. On returning to their ordinary

duty great care must be taken that both they and the clothes which they have worn are thoroughly disinfected. They must also be carefully inspected to see that they are in good health.

95.—Police and attendants must be strictly forbidden to walk about within the camp with bare feet, or to use the latrines provided for the patients.

Dieting attendants. 96.—Attendants must be made to understand that they are on no account to leave the camp; arrangements must be made to have their food brought to them by their friends when they cannot be provided for in the camp; when possible they should be dieted as contacts (see para. 99).

Visits to patients. 97.—Arrangements should be made with omdas to prevent people from collecting in the neighbourhood of hospitals, but near relatives of patients may be allowed to come close to the huts to talk to their sick with the permission of the Medical Officer and only during his evening visit.

When patients are dying the relatives should be informed, and two near relatives may be allowed to enter the Hospital and remain with the patient until death ensues. The relatives should be warned of the danger of infection, and before leaving the Hospital they must be thoroughly disinfected. They must subsequently be kept under observation for ten days.

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95, Pollog and attendants must be strictly forbid-

Dieting attendants to maderate of the diet they are on so count to leave the earny; arrangements their they are on so count to leave their food brought to them by their count when possible they should be dieted as commons.

of bloods attempted of the property of the pro

When patients are dring the relatives may be allowed to the control of the patient and two near relatives may be allowed to fitter indicate and the manual base of the control of the patient of the patient of the design leaving the Hospital to recent the control of the control

In cases of pneumonic plague, attendants and relatives must be instructed to keep away from in front of the patient, especially when he is coughing, and relatives must be advised to sit at the door of the hut, not close to the patient; a special hut should be made for such attendant relatives beside the patient's hut. A mask should be worn by those in close attendance or in making examinations. It is made as follows: Take a piece of gauze 80 centimetres long and 30 centimetres broad, place in its centre a piece of absorbent cotton 15 centimetres square and 2½ centimetres thick, fold the edges of the gauze over the cotton as in making a poultice. Place the pad over the mouth and nostrils and tie the ends of the gauze behind the head. The small space left by the sides of the nostrils should be packed with cotton.

Case book. 98.—In each Hospital a case-book must be kept and all cases entered under the following headings:—

No.—Name—Age—Address—Date of admission— Type of Disease—Site of Bubo—Result—Date of Discharge or Death.

The record of cases coming from each town or village should be kept on a separate page, and the number of the case should correspond with the number on the map of the town or village.

to course be inscrucied to keep away from in front of
the patient, cappointly when he is coughing and relative races be patient of a second by the door of the hut, not
the races be patient; a special has should be made for
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the attendant relatives beside the patient's hat. A
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Vo.-Namo-Ago-Address-Date of admissionvo of Disease-Site of Babo-Beselt-Date of volarge or Double.

The record of cases coming from each town or salings should be kept on a separate page, and the number of the case should correspond with the number of the four or village.

Diet. 99.—The following diets are given as a guide:—

I.—Diet for sick persons.

Milk 1 rotl.

Soup 1 rotl=1/4 rotl of meat.

Bread 1 loaf* (ragheef).

Eggs 3

II.—Diet for convalescents and contacts.

Bread 3 loaves. (*)

Meat 1/3 rotl.

Rice 1/6 rotl.

Vegetables 1/6 rotl.

In the country, arrangements for the supply of food should be made through the omda or one of the sheikhs; the price of each article should be separately agreed upon: so much per rotl of milk, so much per loaf of bread, etc.

In ordering food for the Hospital the Medical Officer in charge will each day ascertain, during the afternoon, the number of diets for sick persons and the number of diets for convalescents and contacts required for the following day; he will then calculate the amount of food required by the above table and give a written requisition for the supplies to the person who is supplying the food.

^(*) The loaf refers to the round loaf of native bread as used in the Government Hospitals. Allowance must be made for local peculiarities.

Diet

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-Iliot for sick persons.

Milk 4 rotl.

Soup 1 rotl=1/4 rotl of ment.

Heard 1 louf" (ragbest).

Flore 3

11.—1) int for convalencents and contacts,
liread 3 leaves. (*)

Ment 1/3 rotl.
Hice 1/6 rotl.

In the country, arrangements for the supply of food

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been so haved existe in heal bases out of region had say (*) the local top observe the supplied and the same observed in the local top observe the supplied in the same observed in the same of the same observed in the sa

Food The requisition should take the requisition. following form, e.g., food is required for 4 patients and 3 contacts:—

Date		or Plague Ho	spital at	
		4 sick.	3 contacts.	Total.
Milk		4 rotls.	-	4 rotls.
Meat		1 rotl.	1 rotl.	2 rotls.
Bread		4 loaves.	9 loaves.	13 loaves.
Eggs		12	_	12
Rice		_	1/2 rotl.	1/2 rotl.
Vegetables	s	_	1/2 rotl.	1/2 rotl.

Food should arrive at the Hospital not later than 7 a.m., accompanied by the requisition; the latter should be filed in the office when the quantities have been found to be accurate.

Contacts admitted for isolation should bring sufficient food with them for the first day.

In towns where there is a Hospital, arrangements should be made with the Hospital contractor to supply the Plague Hospital with food at contract prices, and the usual Hospital diets should be ordered.

It is frequently found more convenient to give a food allowance to each contact instead of supplying them with the food itself.

This allowance should not exceed P.T. 2 per day for adults (over 12) and P.T. 1 for children under 12.

No allowance is given for babies in arms.

Hospital huts. 100.—The most convenient forms of huts for rapid building are those shown in the diagrams.

Required for Plague Hespital at could be filed in the office when the quiptities have

It is frequently feeind more convenient to give a allowance to each contact instead of supplying

their with the food itself.

This allowance should not exceed P.T. 2 per day adults (over 12) and P.T. 1 for children under 12. Youllowance is given for habites in arms.

Hospital buts 100.—The most convenient come of buts for rapid building are those shown in diagrams.

The 2×2-metre hut (Fig. 1) is used for the isolation of cases of plague, each case separately. It is also used for baths.

The 2x2 metre hut

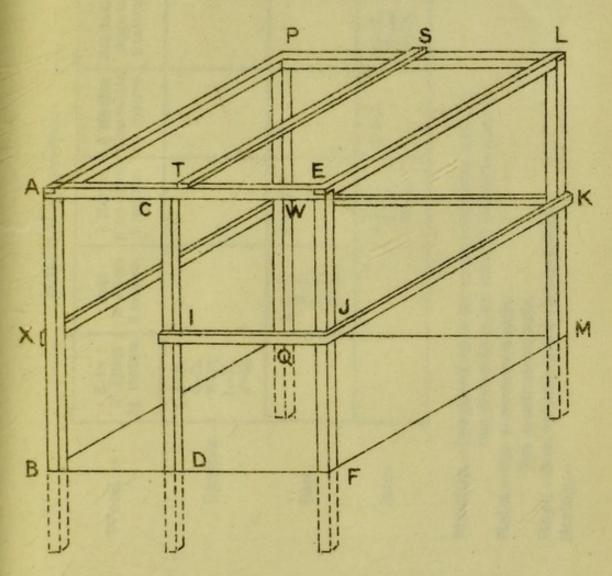


Fig. 1.

THE 2×2-METRE HUT.

Material required.	Erks Morina Morina Bogdadly Bogdadly Busa talata Busa talata migwiz migwiz metres. 2 metres. 2 metres. 14 metres. 14 metres.		4 A-E. 1 S-T. L-P. P-A.	3 J-K. 1 I-J. 3 J-K. 1 I-J. K-W. W-X.
Material	Erks 3" Filori 2 metres.		4 A-E. E-L. L-P. P-A.	3 J. W.
	Wood: - 3" Fileri 2½ metres.	Uprights. E-F. L-M. P-Q.	Roof	Sides.

Matting.—One piece 2×2 m. for roof=2 Damietta mats.
One piece 2×8 m. for sides=7 Damietta mats.
Nails.—Ten 6-centimetre nails.

Ten 4-centimetre nafls.
Rope.—Busa waheda=1 inch circumference.
String.—

100

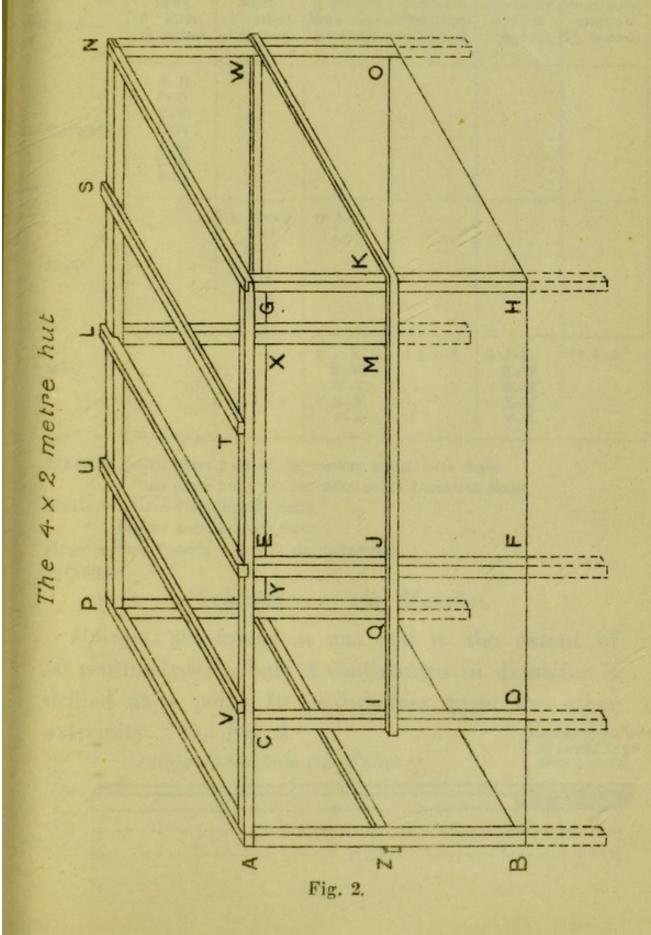
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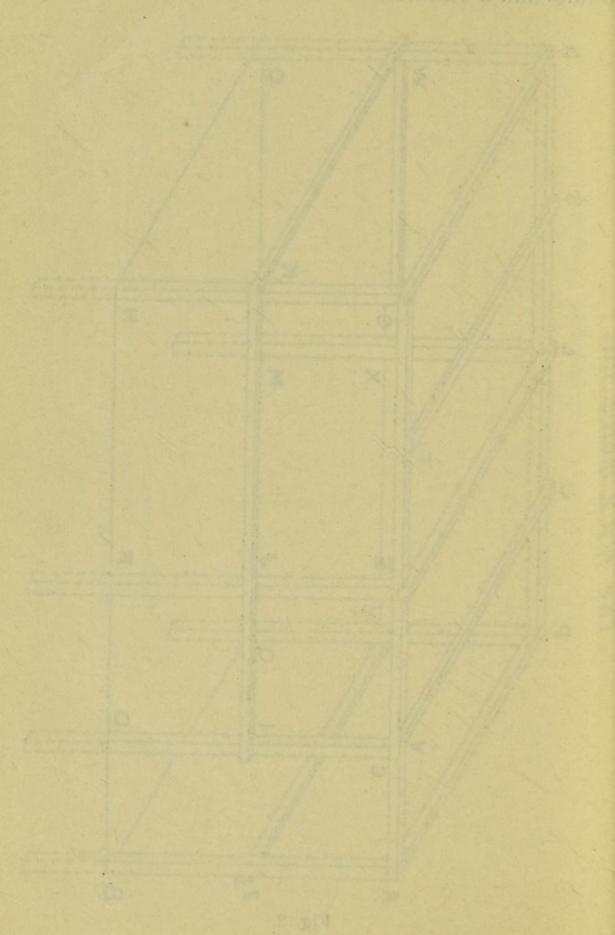
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Harriston.

The 4×2-metre hut (Fig. 2) is used for stores and for contacts; for the latter purpose it will hold 5 adults and 5 children.



The 4 x 2 metro but (Fig. 2) is used for stores and for contacts ; for the latter purpose it will hold 5 adulting and 5 children.



The 4×2-metre hut. Material required.

Wood:-	Erks 3" Fileri 2½ .netres.	Erks 3" Fileri 2 metres.	Morina Busa talata 2 metres.	½ Morina Busatalata 1¼ metres.	Bogdadly migwiz 2 metres.	Bogdadly migwiz 14 metres.
Uprights.	7 A-B C-D E-F G-H N-O L-M P-Q					
Roof.		7 A-C-E E-G G-N N-L L-P P-A E-L	2 S-T U-V			
Sides.	olf-mor		5 J-K K-W W-X X-Y Y-Z	1 I-J	5 J-K K-W W-X X-Y Y-Z	1 I-J

Matting.—One piece 2×4 m. for roof = 4 Damietta mats. One piece 2×16 m. for sides = 14 Damietta mats.

Nails.-Twelve 6-centimetre nails.

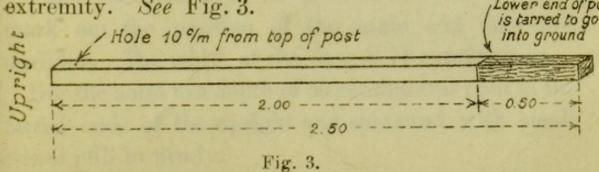
Twelve 4-centimetre nails.

Rope.—Busa waheda = 1 inch circumference.

String.-

Preparation of the Material.

Uprights are tarred at one end to the extent of 50 centimetres; a hole 2 centimetres in diameter is drilled at a point 10 centimetres from the other extremity. See Fig. 3.



THE 1×2-METER BUT.

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Roof pieces.—A square piece half the thickness of the wood is removed from each end of the erk roof pieces in order to allow the corners to fit into each other, and a hole 2 centimetres in diameter is drilled at a point 12 centimetres from each extremity. See Fig. 4.

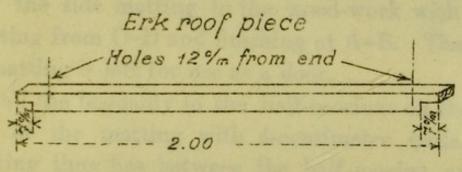


Fig. 4.

The half-morina roof pieces require no special preparation; they are kept in position by lashing to the roof erks and by the roof matting.

The matting should be made ready in two pieces by joining the mats by string, side to side, to the required length. The average size of the Damietta mats is 2 metres by 1.20 metres.

Method of erecting the Huts.

Place the roof erks in position on the ground; mark out the position of the angle and door-post uprights. The width of the door is 75 centimetres.

Dig the holes to a depth of 50 centimetres; put in the tarred ends of the upright and surround with small stones; fill in firmly.

From pieces.—A square piece half the thickness of tool of the order roof from each cond of the order roof state in order to allow the corners to fit into each falled a hole 2 centimetries in documents is drilled a point 12 togethering from each extremity. See

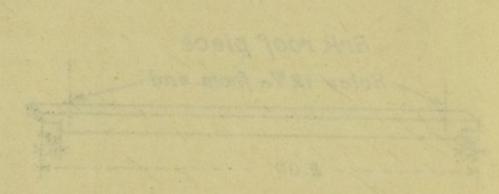


Fig. 1.

The half-moving roof pieces require no special pre-

The matting about the made resulty in two places to joining the reads by arring, side to side; in the countries to joining the leavest of the Dandesta.

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become offer on molifery of when here addressed to be addressed of the second of the s

Place the roof erks in position and lash them to the uprights with rope. See Fig. 5.

Place the central roof pieces in position and lash on. Nail the half-morina side pieces with 6-centimetre nails to the outer sides of the uprights at a height of 1 metre from the ground.

Fix the roof matting to the wood-work with string. Fix the side matting to the wood-work with string, starting from C-D and finishing at A-B. The excess of matting is left for use as a door.

Nail the bogdadly to the half-morinas on the outer side of the matting with 4-centimetre nails. The matting thus lies between the half-morina and the bogdadly.

Nails should not be driven quite home so that they can be easily drawn in striking the hut without splitting the side pieces.

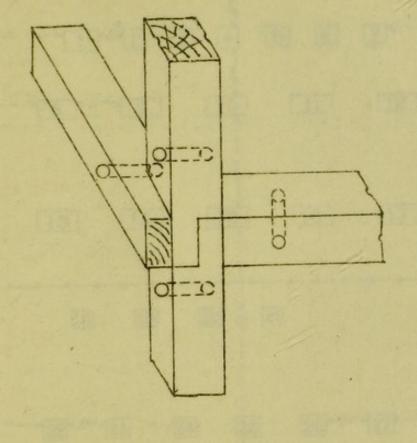
Figure the roof order in position and lash them to the

Place the central roof pieces in position and lash on. Nail the half-moring side pieces with 6-centimeter sails to the outer sides of the nurights at a beight of I metre from the ground.

Fix the roof matting to the wood-work with string, I in the side matting to the wood-work with string, starting from ()-D and finishing at A-B. The excess of matting is left for our as a door

Nail the bogdadly to the ball-morinas on the outer side of the matting with 4-centimetre nails. The marting thus lies between the ball-morina and the bogdadly.

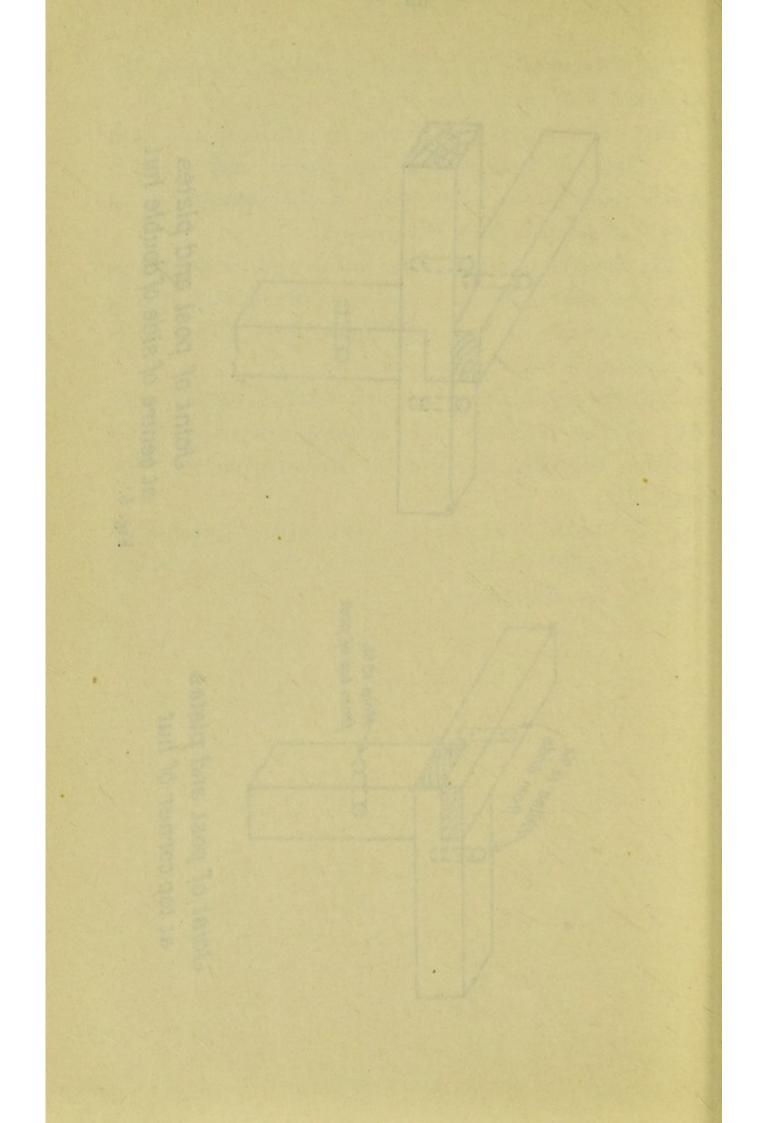
Nails should not be driven quite home so that they can be easily drawn in striking the but without relitting the side places.



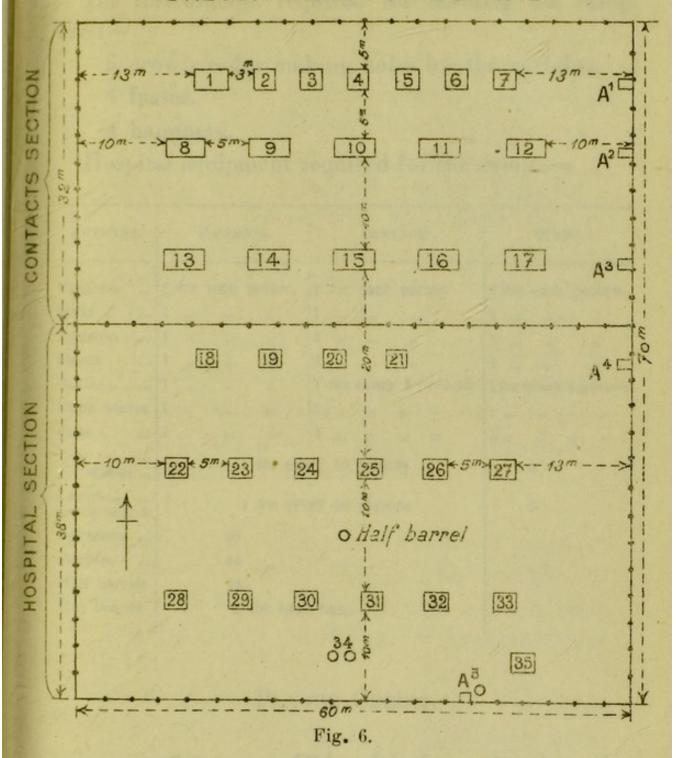
GAC Hole 10% of post

Joint of post and plates at centre of side of double hut

Joint of post and plates at top corner of hut



SKETCH PLAN OF HOSPITAL



KEY TO SKETCH-PLAN OF HOSPITAL (FIG. 6).

1. Store. 20. Tamurgi. 21. Tamurgia. 2. Womens' bath-2 tubs. 3. Mabkharra-2 tubs. 22-33. Huts for patients. 4. Men's bath-2 tubs. 34. Disinfecting station-2 barrels. 5. Police. 35. Mortuary—2 tubs. A1. Latrine for staff. 6. Tamurgi. 7. Tamurgia. 8-17. Huts for contacts. A2. Latrine for contacts, A3. Latrine for contacts. 18. Store. A4. Latrine for staff. 19. Bath-2 tubs. A5. Latrine-1 tub.

Key To SKETCH-PLAN OF HOSPITAL (FIG. 6).

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The instruments required for building the camp

- 6 crowbars for making holes for the uprights.
- 4 fasses.
- 4 hammers.

Hospital equipment required for the camp :-

ARTICLES.	PATIENTS.			CONTACTS.				STAFF.		
Blankets	2 for	each pers	on 2	for	each	person	2 f	or eac	h person.	
Mats	1 ,,	, ,	1	,,	"	"	1	11 11	,,	
Drawers	1 ,,	27 21	1	١ ,,	,,	"	1	" "	,,	
Shirts	1	,, ,,	1	l ,,	,,	,,	1	12 11	"	
Gullas	1 .,	,, ,,	1	for	every	5 person	1 1fc	rever	y 5 persons	
Gulla plates	1 .,	,, ,,	1	١,,	,:	,, ,,	1 ,	, ,,	,, ,,	
Cups	1 ,,	" "	1	١ ,,	,,	,, ,,	1 ,	, ,,	" "	
Zirs Zir stands	} 1 for every 50 persons						2			
Lamps Lamp stands	}	1 for	ever	y 50	perso	ons		3		
Spittoons	i Bio	20								
Slippers		20								
Half barrels		14								
Hut boards		1 for	each	hut.						
	la se						1			

PLAGUE CREDIT.

Plague credit.

101.—On the application of a Divisional Inspector credit for a specified sum will be opened at the nearest mudiria or markaz; payments from this credit will be made on the signature of the Divisional Inspector. When it is necessary to delegate the power of drawing upon the plague credit to the mudiria Inspector or markaz

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Plague credit.

Divisional Inspector credit for a madiria or che signature from this credit for a madiria or che signature of the Divisional Inspector. When the signature of the Divisional Inspector. When it is necessary to delegate the power of drawing upon the signature medit to the mudicia Inspector or drawing upon

Medical Officer, information of the fact will invariably be sent to the Mudir or Mamûr by the Divisional Inspector in writing.

Whenever such a credit is opened a copy of the register for plague expenses will be supplied.

Sarraf. 102.—Arrangements should be made with the Mudir for the services of a sarraf, who will be required to pay all small accounts daily at such regular time as may be convenient, and to attend at the store each Friday, at such time after midday as may be arranged, to pay all wages and other weekly or fortnightly accounts. On the recommendation of the Inspector the sarraf may make application to the Mudir for authorization to receive payment for his services.

Payments. 103.—All payments must be made through the mudiria or markaz, except in cases of compensation for small breakages, destruction of bedding, etc., or rewards for information.

All istimaras, before being sent to the mudiria or markaz for verification and payment, must be numbered, signed, and the total entered in the register.

Cash advance 104.—In order to make petty to Inspectors. and urgent payments of the nature mentioned in para. 103, the mudiria or markaz is authorized to advance any sum not exceding L.E. 10 in cash to the Inspector. This

A coing t Officer, information of the fact will invariantly be cent to the Madir or Mamir by the Divisional Lucicotter in writing.

Whenever such a credit is opened a copy of the custer for playue expenses will be supplied.

Sarral.

102.—Arrangements should be made with the Mudir for the

to the recommendation of the large of the served of pay all accounts daily at such regular time as may be a revenient, and to attend at the store each Briday, at such time after middley as may be arranged, to pay ages and other weekly or forthightly accounts. In the recommendation of the largeoner the sarral tary make application to the Madir for authorization to the Madir for authorization.

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Cash advance 104.—In order to make perty to hance of the nature med argent payingule of the nature mediance in para. 103, the nature

to a muricus is authorized to advance any sum not distributed to the days of the Tributed Time

amount or any portion of it is renewable on production of receipts vouching for the expenditure incurred.

In the case of rewards for information no receipt is required, but a voucher should be made out for the amount, headed "Rewards for notification," and signed by the Inspector.

Inspectors are reminded that all cash advances are debited to them personally in the mudiria books and that they will be required to make good any sum not properly vouched for.

Wages account. 105.—Every Thursday, or alternate Thursday afternoon, the clerk will make up the wages account for the week or fortnight on Form No. 64 C.G., showing the names of the workmen, by gangs if possible, the number of days each man has worked, rate per day, deductions, and total.

This will be checked by the Inspector, numbered, signed, and the total entered in the Register for plague expenses under the heading "Pay of disinfecting gangs" or "Pay of other agents." The account will then be passed to the mudiria or markaz for verification of the figures, and payment will be made by the sarraf at the Store next day.

It is advisable to pay the wages every week. In exceptional cases the wages of workmen may, on the presentation of wages sheets approved by the Inspector concerned, be checked at the mudiria or governorate and paid out at once, either to the person delegated by the Inspector or to a cashier from the mudiria or ----

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of receipts venthing for the expenditure interest.

In the case of fewards for information no receipt is a control, but a venther should be made out for the second, but a venther should be made out for the second, but a venther to motification," and signed

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Wages account. 105.—Every Thursday, or allowunto Thursday afternoon, the oloric

to reight on Form No. 64 C.G., showing the names of the worksmen, by gange if possible, the neurbor of a variance in possible, the neurbor of the confidence of the rate has worked, rate per day; deductions.

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of colored cases the wages of worldmen may, on the constant of water of the wages of worldmen may, on the constant of wages at the innerity the inspector of the constant of the innerity of governors to the constant of the

governorate, who will distribute the wages among the workmen and return the sheets signed by them to the mudiria or governorate concerned with the least possible delay.

Food account. 106.—The food account for the week or fortnight will also be made up on Thursday afternoon from the requisitions filed in the office. It will be checked by the Inspector, numbered, signed, the total entered in the register of plague expenses under the heading "Food," passed to the mudiria or markaz for verification, and payment will be made by the sarraf at the Store next day.

It is advisable to pay this account weekly.

be presented at the office on the day on which the debts are contracted. They should be checked on the same evening by the Inspector, numbered, signed, and the totals entered in the register of plague expenses under their proper headings. They should then be passed to the mudiria or markaz for verification of the figures and payment next day at the Store.

Method 108.—It will be seen that each account passed for payment will bear a serial number.

Entries in the register will be

made under the following headings:-

Pay of disinfecting gangs. Pay of other agents. AT THE

workshess and return the shocks signed by them to the workshess and return the shocks signed by them to the contribute or governments represented with the least contribute.

I cod account, 106.--The food secount for the

on the office of will be checked by the Inspector, an the office of the will be checked by the Inspector, announced, signed, the total contered in the register of signed expenses under the heading "Rood," passed to the medicie or market for verification, and payment to be market for verification, and payment.

It is advisable to pay this account weekly,

Other accounts. 107.—All other accounts should

they on which the debts are contracted. They should be checked on the same evening by the Inspector, and one best of the totals entered in the register of players expenses under their proper headings. They should then be passed to the muchin or marken for a conficulty of the factors of the factors and passed to the reaction of marken for a conficulty of the factors and passed to the marking of the conficulty of the factors and passed to the marking of the

Method 108.—It will be seen that such of entering in account passed for payment will bear a serial number.

Entries in the register will be

reads under the following headings -I'sy of disinfecting gasgs.
I'm of other spents.

Transport and riding allowances.

Materials.

Rewards for notification.

Indemnity for objects destroyed.

Food.

Rent.

Sundries.

The expenditure account will thus take the following form:—

Date of Approval.	NATURE OF EXPENDITURE.	No.	of Receipt.	Am L.E.	mill.	REMARKS.
1906	Pront Cit. 15 to 18 3	32				
June 1	Wages of disinfecting gangs	No.	9	15	150	
,, 1	Wages of other agents	,,	10	3	280	
,, 1	Food	,,	11	2	120	
,, 2	Materials	,,	12	-	500	
,, 3	Materials '	,,	13	-	250	
,, 5	Reward for notification	"	14	-	200	Paid personally.
SO.	June 6. Expenditure to date. Signed.			21	5 0 0	
	7 يونيه المنصرف لغاية تاريخه (الامضاء) مشالمهماث			11	•••	
	مشالمهمات	100	غر	••	۳0۰	

Should it be necessary to transfer the account to an Inspector who desires to keep the register in Arabic, the account should be closed as above, the amount of Lamport and riding allowances.
Materials.
Leaveds for notification.
Indennity for objects destroyed.
Food.

limit:

ne expenditure account will thus take the following

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to desired to keep the register in Arabic, to property to the register in Arabic, as count should be recent as above, the amount of

expenditure to date entered in the figures of both languages, and the register should be signed by both parties to the transfer.

At the end of an epidemic in a locality the register will be returned to headquarters.

No special plague allowances may be granted to officials of this or any other Department without previous approval from headquarters. The following plague allowances are given as a guide:—

Sheikh of the quarter, when actually employed on plague duty, from P.T. 50 to 150 a month, according to the importance of the work.

Police Officers or Moawinin Idara, when specially detailed, from P.T. 11 to 20 a day.

Sarrafs, P.T. 5 a day.

Barbers, when specially employed, not exceeding P.T. 5 a day. This payment must not be made to barbers already receiving monthly pay for prophylactic measures.

Policemen acting as guards in camps or on disinfection duty, P.T. 2 a day.

The Police Officer concerned will submit a list of policemen employed on such duty to the Divisional or Mudiria Public Health Inspector in charge, who, after verifying the list to see that the police have been actually employed on plague work, will approve the list and pass for payment to the Mudiria.

An istimara will be made out monthly for the above allowances and forwarded to headquarters; the payment, when approved, will be made from the local plague credit.

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At the end of me epidemic in a locality the register

To special playme allowances may be granted to be toler being be delined to be a classic without without to low approval from beautquarters. The following

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The Police Officer concerned will submit a list of the complete on such daily to the Divisional the first first be supported in charge, who, he worlfying the list to see that the police have in a carefying the list to see that the police have in a carefy employed on plague work, will approve

An issued will be made out monthly for the above to concer and forwarded to headquarters; the graces, when approved will be made from the local

Temporary disinfectors or raïses appointed locally or sent from the Central Administration are considered to be on daily wages. Their names should be entered in the Workmen's Register and their wages should be paid out of the local plague credit at the end of each week or fortnight.

This does not apply to disinfectors, raïses, or men permanently attached to the mudiria disinfection stations who will be paid in the ordinary way. No advances of pay will be allowed for any reason.

Unserviceable articles. 109.—During the course of disinfection articles which become temporarily unserviceable, such as watering-pots, should be repaired locally. Worn out articles, such as watering-pots, pails, mats, etc., which cannot be repaired, should be broken up, burnt if possible, and struck off charge in the Ledger of Receipts and Issues.

Equipment statement. 110.—At the end of a general disinfection an equipment statement should be prepared under the following heads:—

Article—No. received from headquarters.—No. purchased locally—Total—Destroyed as unserviceable—Remaining.—This equipment statement should be forwarded to the Central Administration.

All baskets used during disinfection and mats used in hospitals should be burnt.

Comporary disinfectors or mises appointed locally at sont from the Central Administration are considered to be on daily wages. Their names should be entered in the Workmen's Register and their wages should be choosed in the Workmen's Register and their wages should be called out of the local plague could at the read of each week or fortnight.

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Equipment, disinfection an equipment statestatement, disinfection an equipment statement should be prepared under

riche-No. recessed from headquarters.-No.

All baskets used during disinfection and make used bospitals should be burnt.

Dismantling temporary hospitals built of mats, reeds, or durra-stalks (bûs) should be taken down, the

wooden supports thoroughly disinfected with sublimate solution, and the mats, reeds, or durra-stalks burnt on the site of the hut so as to disinfect the floor. It is advisable to rake up the floor to the depth of three inches before making the fire.

After the wooden supports have been properly disinfected and dried they should be tied together hut by hut and returned to the Mudiria Store.

All mats which have been used in Plague Hospitals should be burnt.

Tents used as Plague Hospitals should be disinfected with sublimate solution and laid inside outwards in the sunlight for three days.

All articles must be thoroughly disinfected before being returned to the Mudiria or Central Stores, and no articles should be returned which are not in a serviceable condition.

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of mats, reeds, or durin-stalks of buss, should be taken down, the

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All articles must be thereogetly disinfeated before to any returned to the Mudicia or Central Stores, and to articles should be returned which are not in a servenship condition.

Decree of 27th May 1899.

ARTICLE 1.

When a town or village or part of a town is declared by the Public Health Department infected with plague or cholera, the Public Health authorities have the right to make an inspection in every house or apartment to see if any cases of the said maladies are hidden there. The persons who are in the house or apartment are obliged to facilitate this inspection.

When it is necessary to enter the house of a foreigner or to carry out therein any of the measures prescribed by the articles which follow, the Public Health authority shall give previous information of the hour of the visit to the Consulate concerned in order that a representative may be present if thought necessary.

If no representative of the consular authority exists in the town or village in which the case occurs, and if there is danger in delay, the visit may be made as a special case, but the consular authority must be immediately advised of it.

ART. 2.

Any person suffering from one of the said infectious maladies in conditions not permitting of proper isolation, will be transported to the Hospital erected for the treatment of infectious diseases, unless the Public Health Inspector is of opinion that the transport will do him harm.

Decree of 27th May 1899.

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When a fown or village or part of a town is declared to the Public Health Department infected with playing an elected with playing the cholors, the Public Health authorities have the right to make an inspection in every house or apartment to see if any cases of the spicionals dies are highlen there. The persons who are in the house or apartment are this sea of this is specified.

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ART. 3.

If the patient is attended at home the Public Health authority will take the necessary steps to isolate him and his attendants from the other inhabitants of the house and will exercise to this end a strict superintendence.

ART. 4.

If the Public Health authorities think it of use to isolate for a certain time under tents or shelters, away from the houses, the family or relatives of a person suffering from one of the said infectious diseases, these persons must submit to this measure without any opposition.

ART. 5.

It is absolutely forbidden to take away a person suffering from one of the said infectious diseases from one village to another, or from one house to another, or to assist directly or indirectly in such removal.

ART. 6.

The inhabitants of a house in which a case of one of the said infectious diseases shall have occurred are required to cause to be disinfected all rooms, places, bedding, clothing, linen, which in the opinion of the Public Health authorities ought to be disinfected.

The disinfection will be done under the superintendence of the agents of the Public Health authority, which, in case of delay or negligence on the part of

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The disinfection will be done under the superintendence of the agents of the Rubble Health authorie, which is case of datas or negligence on the part of those whose duty it is, can proceed with the disinfection itself on their account and at their expense.

Disinfection is done gratuitously for the poor by the Public Health authority.

(Note.—All disinfection is now performed gratis.)

ART. 7.

In case of a death from one of the said infectious diseases occurring in a house, all the precautions for disinfection of the body ordered by the Public Health authorities will be immediately taken under the superintendence of the agents of the Public Health authority, which in case of delay or negligence may itself proceed with the disinfection on the account and at the expense of the members of the family on whom the obligation rests.

ART. 8.

The inhabitants of a house in which a case of the said infectious diseases occurs, the neighbours and those who come to know about it are obliged to report it without delay to the nearest Public Health authority.

ART. 9.

The Police will take care that no assembly of the family, friends, or acquaintances be held in the interior of infected houses and they can interfere to break up such assembly.

ART. 10.

Penalty: Imprisonment, 24 hours to 1 week. Fine, 5 to 100 P.T. or both.

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Penalty Janjeisonment, 24 hours to the scale.

ART. 11.

Previous Decrees remain in force in so far as they are not contrary to the present.

Law No. 3 of 1911.

ARTICLE 1.

Is added, to the Decree of 27th May 1899, after Art. 9, the following:—

ART. 9 bis.—The Administration of Public Health may, in the interest of the public health, cause administrative closure of market places, cattle markets, and other public markets held periodically which serve towns or villages where a case of true or suspected plague or cholera has been reported.

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Previous Decrees remain in force in so far as they

law No. 8 of 1911.

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1- added to the Decree of 27th May 1899, after

Ang. 9 Siz.—The Administration of Public Health mark, in the interest of the public health, cause administrative closure of markets places, cattle markets, and other public markets indid periodically which serve towns or yillages where a case of true or serve people! places or sholers has been reported.

Arrêté of the Minister of Interior of 26th June 1901.

ARTICLE 1.

The Inspectors of the Public Health Department are authorized to cause to be disinfected by their agents all the houses or apartments which they consider necessary in the interest of the public health in towns or villages where cases of plague may have been reported by the Public Health Department.

ART. 2.

In case of refusal or of resistance on the part of persons residing in the house or apartment, the agent charged with the disinfection shall bring the fact to the knowledge of the doctor of the locality who shall proceed to the place and in his presence and under his uninterrupted superintendence shall cause the door or doors to be opened, by force if necessary, and the operations of disinfection to be proceeded with, making a procès-verbal of all the circumstances.

ART. 3.

In case of absence of the persons residing in the house or apartment, opening shall not be proceeded with until after the Police office has been advised of the matter.

Arreid of the Minister of Interior of 25th June 1901.

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The Inspectors of the Public Mealth Department are switchingly to cause to be disinfected by their excess all the houses or apartments which they consider necessary in the interest of the public health in owns or villages where cases of plague may have two reported by the Public Health Department.

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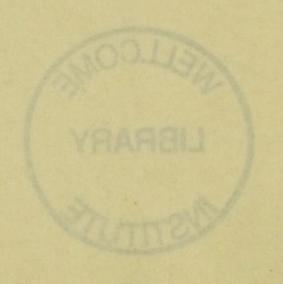
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