

Plague cases treated in the Kennedy Town hospital / Hong Kong.

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HONGKONG.

PLAGUE CASES TREATED IN THE KENNEDY TOWN HOSPITAL.

*Laid before the Legislative Council by Command of
His Excellency the Governor.*

KENNEDY TOWN HOSPITAL,
HONGKONG, 6th July, 1903.

SIR,—I have the honour to report, for the information of His Excellency the Governor, regarding the Plague cases that have been treated in Kennedy Town Hospital this year up to this date.

2. Two hundred and eighty-two cases of Plague have been admitted to this date, of which 87 were discharged cured, 171 died, and 24 are still in Hospital, but all convalescent. All these 24 will almost certainly recover completely, and for purposes of my calculations in what follows I shall class them with those cured. As the epidemic seems practically over, future admissions to the Hospital this year will probably scarcely interfere with general statements that may now be made; and this year's figures may, I think, be quite fairly compared tentatively with the total figures for previous years.

3. At the beginning of the epidemic, as fresh curative serum is not yet available locally, and as last year's experience sufficiently proved serum imported from Europe to be useless, I decided to continue trials I had made to some extent in the two previous epidemics as to the curative value of oil of Cinnamon. As an aromatic volatile oil it is antiseptic, and it is absorbed into the blood unchanged, so I gave it in large doses in the form of the essence, in the hope that it might be absorbed in sufficient quantities to exercise its antiseptic action against the Plague Bacilli. After a further series of 30 cases, however, I abandoned it as useless.

4. The next series of cases, over a hundred in number, I treated on general principles, symptomatically, until the 18th of May, when you suggested to me a further trial of Carbolic Acid in larger doses than when I previously used it in this Hospital.

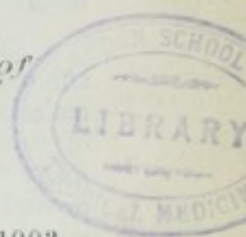
5. I consented to make such further trial, though, I confess, without much hope of its proving of value. I had in 1901 used this drug in a series of over 200 cases in doses of 80 grains a day, and while the mortality in that year was 76.5 %, slightly less than the average, I did not think it had been much affected by the treatment.

6. It was, I think, your proposal that one should begin with an initial dosage of 144 grains in 24 hours, but rapidly diminish the quantity given. I determined, however, to push the remedy to the utmost, and, while watching carefully against any appearances of poisoning, to give the drug in full doses so long as Plague Bacilli were present in the blood. I accordingly gave 144 grains of Carbolic Acid daily, divided into two-hourly doses of 12 grains each, and administered, as two years ago, in a mixture flavoured with Syrup of Orange and Chloroform water, in some cases over long periods. Inspector KNIGHT, for instance, consumed over 2,500 grains of pure Carbolic Acid before his blood was free from Plague Bacilli.

7. With these enormous doses, I expected evidence of Carbolic Acid poisoning to appear frequently, but it was practically unknown. In a few cases Carboluria developed, but the omission of one or two doses was usually sufficient to clear the urine, and permit resumption of the remedy in full doses. In certain cases dyspeptic symptoms occurred, but in these greater dilution of the mixture with water was all that was required to overcome this obstacle to its consumption.

This absence of untoward symptoms is probably an incidental testimony to the purity of the Apothecary's stock of Carbolic Acid, as Carboluria is believed to be due more to impurities in the acid than to the drug itself.

8. As a result of observation of its use in a series of 143 cases, I consider Carbolic Acid in large doses the most hopeful means of treating Plague thus far at our disposal in Hongkong.



9. Before looking at the actual figures, there are two circumstances that need to be mentioned, and for which due allowance must be made:—

(1)—The treatment with Carbolic Acid was commenced late in the epidemic, at a stage when there is a greater natural tendency to recovery, the disease being invariably more virulent early in the season.

(2)—Coincidentally with my beginning the use of Carbolic Acid, Dr. BELL announced his modification of Ross's method for the examination of a thick film of malaria blood as a method for the examination of plague blood; and as a consequence of this improved means of diagnosis a much larger number of very mild cases, many of which would not have been diagnosed as Plague in former years, were proved to be Plague and sent to Kennedy Town. These cases swelled the proportion of cases recovering.

10. I should like in passing to express my sense of the great value of BELL's method for the diagnosis of Plague. I at once put it in routine use both at Tung Wah Hospital and at Kennedy Town Hospital. At Kennedy Town it has not only added to precision of diagnosis, but it has enabled one to watch more definitely the progress of the illness; and I have used this, as I have mentioned, as my guide in the use of Carbolic Acid, while disappearance of the Plague Bacilli from the blood circulation has become a *sine quâ non* before discharge from the Hospital.

11. The following tables show the racial and general mortality before and during the use of Carbolic Acid; and to facilitate comparison I submit the total figures for the current year, to date, alongside the corresponding figures for 1901 and 1902:—

BEFORE CARBOLIC ACID WAS USED,

i.e., in the First Half of the Epidemic.

	CASES.	CURED.	CONVALESCENT.	DEATHS.	MORTALITY.
Europeans,	2	1	...	1	50.0 %
Portuguese, .....	...	...	...	...	...
Chinese,	123	15	2	106	86.2 ..
Other Races,	14	2	...	12	85.7 ..
	139	18	2	119	85.6 %
		20			

UNDER THE USE OF CARBOLIC ACID,

i.e., in the Second Half of the Epidemic.

Europeans,	22	17	4	1	4.5 %
Portuguese,	1	1	...	...	...
Chinese,	80	31	3	46	57.5 ..
Other Races,	40	20	15	5	12.5 ..
	143	69	22	52	36.4 %
		91			

TOTAL CASES DURING 1903 (TO 6th JULY).

282	87	24	171	60.6%
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1901.

Treatment throughout:—80 grains Carbolic Acid daily.

	CASES.	DEATHS.	MORTALITY.
Europeans,	24	8	33.3%
Portuguese,	16	12	75.0 ..
Chinese,	136	121	89.0 ..
Other Races,	28	15	53.6 ..
	204	156	76.5%

1902.

Treatment throughout:—Calmette's Serum from Paris.

Europeans,	3	1	33.3%
Portuguese,	1	1	100.0 ..
Chinese,	80	73	91.3 ..
Other Races,	10	5	50.0 ..
	94	80	85.1%

1903 (to 6th July).

Treatment as described in preceding Pages.

Europeans,	24	2	8.3%
Portuguese,	1	...	...
Chinese,	203	152	74.9 ..
Other Races,	54	17	31.5 ..
	282	171	60.6%

12. The *Hospital Mortality* of Plague cases treated at Kennedy Town since the first outbreak of the disease in the Colony has been as follows:—

1894,	76.0	per cent.
1895,	—	
1896,	74.3	„
1897,	—	
1898,	81.8	„
1899,	81.8	„
1900,	77.5	„
1901,	76.5	„
1902,	85.1	„
1903 (to 6th July),.....	60.6	„

13. When all allowances, such as I have before referred to, have been made, I think it must be admitted that Carbolic Acid is of undoubted value in the treatment of Plague, when given in such doses as to allow its sufficient concentration in the blood to exert its antiseptic action on the bacilli. It is, however, by no means a specific remedy; and, while reporting thus favourably on its use, I would urge upon His Excellency's attention the desirability of carrying into effect before next epidemic season proposals already sanctioned for the production locally of a Curative Serum for the treatment of Plague.

14. I attach a Table showing the main facts regarding each of the Plague cases admitted this year, entered in series in the order of their admission to Hospital; and also notes in more detail with temperature charts of six typical Plague cases, illustrating different forms of the disease, and some of them presenting features of peculiar interest.

I have the honour to be,

Sir,

Your obedient Servant,

J. C. THOMSON.

The Honourable

Dr. J. M. ATKINSON,
Principal Civil Medical Officer,
&c., &c., &c.

CASES.*

D—M—, English, male, æt. 42, Inspector of Police, admitted to Kennedy Town Hospital on 16th May, 1903, suffering from Plague.

Had a little fever, and small Right Femoral Bubo, and Plague Bacilli were found in his blood. Mild case.

Treatment.—Liq. Strych. m.x, in mixture, every 6 hours. Quin. Sulph. gr v, three times a day. Belladonna, locally, to Bubo. Brandy, 4 oz., in 24 hours Liquid diet.

25th May. Bubo resolving without suppuration. Solid diet.

30th May. Still a few Plague Bacilli in blood. Acid. Carbolic. gr. xii, in mixture every 4 hours.

6th June. No Plague Bacilli in blood.

8th June. Discharged from Hospital.

This case is interesting, in that it was an ordinary somewhat mild case, which when apparently quite convalescent still harboured Plague Bacilli, and in which bacilli disappeared within a few days after use of Carbolic Acid.

* The temperature charts accompanying these cases have not been printed.

Y—K—, Japanese, male, æt. 15, admitted to Kennedy Town Hospital on 8th June, 1903, suffering from Plague.

Third day of illness. Temp. $102^{\circ}2'$ F. A large diffuse Right Cervical Bubo. Plague Bacilli in blood. No delirium.

Treatment.—Acid Carbohc, gr. viii, in mixture, every 2 hours. Tinct. Digitalis m. v and Liq. Strych. m. iv, in mixture, every 6 hours. Belladonna, locally, to Bubo. Brandy, 3 oz., in 24 hours. Liquid diet.

10th June. Tendency to pyrexia. Controlled by iced compresses.

12th June. Temp. normal. Tea and toast.

17th June. Digitalis and Strych. stopped.

18th June. Bacilli still in blood, but rare. Acid Carbohc reduced to gr. vi, every 4 hours. Bubo fomented.

20th June. Solid food.

22nd June. No Plague Bacilli in blood. Acid Carbohc stopped. Bubo incised.

5th July. Bubo healed. Discharged from Hospital.

J—H—, English, male, æt. 30, Armourer-Sergeant, Hongkong Volunteer permanent staff, admitted to Kennedy Town Hospital on 16th June, 1903, suffering from Plague.

Had been run down in health for six weeks before, but actual Plague attack seems to have commenced on 10th June, when he first noticed a swelling and tenderness in the Right Axilla. Did not note fever, but felt out of sorts.

At admission, Temp. 101° F. Right Axillary Bubo of size of duck's egg. Plague Bacilli in blood.

Treatment.—Acid. Carbohc, gr. xii, in mixture, every 2 hours. Tinct. Digitalis m. vii and Liq. Strych. m. v, in mixture, every 6 hours. Belladonna, with fomentations, locally, to Bubo. Brandy, 4 oz., in 24 hours. Liquid diet.

20th June. Digitalis and Strych. stopped. Diet improved.

23rd June. Solid food.

25th June. Bubo resolving without suppuration. No Plague Bacilli now in blood. Acid Carbohc stopped.

30th June. Ung. Hydrarg. Iod. Rub. to be rubbed in over remains of bubo.

6th July. Bubo gone. Discharged from Hospital.

An interesting feature in this case is, that in its initial ambulant stage on 14th June, *i.e.*, two days before admission to Hospital, Armourer-Sergeant H. attended a church parade at St. John's Cathedral, and was publicly presented by His Excellency the Governor with the South African war medal. He does not seem to have at that time suspected Plague, but says that on account of the pain in the Right Axilla he had great difficulty in raising his hand to the salute after the medal had been pinned on his breast.

— — —, English, married lady, admitted to Kennedy Town Hospital on the 8th June suffering from Plague.

Had been out of sorts for some weeks. Attack of Plague commenced on the 5th June, when she had fever 104° F. On 6th June, Temp. 102° F., and tenderness in left groin.

7th June, Temp. 100° F.

8th June. Plague diagnosed, and patient admitted to Hospital. Temp. 99.6° F. Left Inguinal Bubo, of size of small hen's egg, and slight tender swelling in Left Femoral Region, Plague Bacilli in blood. Patient very nervous, but otherwise in good condition.

Treatment.—As in J. H. case. Essential feature of it: Acid Carbolie gr. xii, every 2 hours.

10th June. Femoral Bubo more marked, more tender, size of a large hen's egg. Diet improved.

18th June. Inguinal Bubo incised. Femoral Bubo smaller and less tender.

20th June. Digitalis and Strych. stopped. Acid Carbolie reduced to gr. xii, every 4 hours. Solid food.

23rd June. No Plague Bacilli in blood or in discharge from Bubo. The Femoral Bubo resolved without suppuration. Inguinal Bubo healing. Acid Carbolie stopped.

25th June. Hypophosphites as tonic.

27th June. Discharged from Hospital.

A—J—M—, English, male, æt. 23, Government Official, admitted to Kennedy Town Hospital, on the 13th June, suffering from Plague.

Admitted to Government Civil Hospital on the 11th June, with fever, 102° F.

12th June. Temp. 105·8° F. Tender swelling in Left Femoral region. Plague Bacilli found in blood.

13th June. Transferred to Kennedy Town.

Treatment.—As in J. H. case. Essential feature:—Acid Carbolie gr. xii, every 2 hours. Iced Compresses to control temperature.

16th June. Steady improvement; there has been no delirium. Bubo less tender.

17th June. Diet improved. Digitalis stopped.

23th June. Solid food.

28th June. Bubo incised.

29th June. No Plague Bacilli in blood.

30th June. Acid Carbolie stopped. Syr. Ferri Phos. c. Quin. et Strych. as tonic.

6th June. Quite convalescent. Bubo healed.

H—K—, English, male, æt. 33, Sanitary Inspector, admitted to Kennedy Town Hospital, on 6th June, suffering from Plague.

Illness began with fever 105° F. on the previous day.

At admission, Temp. 104° F. Delirium. No Bubo. Plague Bacilli in blood. Condition complicated by alcoholism.

Treatment.—Acid Carbolie gr. xii, in mixture, every 2 hours. Tinct. Digitalis, m. vii and Liq. Strych. m. v., in mixture, every 4 hours. Brandy, 7 oz., in 24 hours, reduced to 4 oz., two days later. Liquid diet. Iced compresses to control temperature.

7th June. Delirium severe. Potass. Bromid. gr. xxx, and chloral hydrat. gr. xx at night.

12th June. To-day for the first time able to be freed from shackles. Delirium has been violent day and night, but he is now quiet, though very weak.

18th June. Diet improved, allowed to sit up in bed.

23rd June. Acid Carbolie gr. xii, every 4 hours.

24th June. Temp. 100° F. Quin. Sulph., gr. v, thrice daily.

26th June. No Plague Bacilli in blood. Acid Carbolie stopped.

Syr. Ferri Phos. c. Quin. et Strych. as tonic.

6th July. Quite convalescent, but not yet fit to resume work.

In this case, a severe septic case, non-bubonic, over 2,500 grains of Carbolie Acid were given before the blood was free from Plague Bacilli.

No. of Case.	Patient's Name.	Race.	Sex.	Age.	Occupation.	Type of Disease.	Situation of Buboes.	Was Cinamon Essence used?	Was Carbolic Acid used?	How long in Hospital?		Result.	
										Days.	Hours.	Cured.	Died.
1	Lai Long,	Chinese.	M.	22	Coolie.	Bubonic.	R. F.	Yes.	No	1	...	...	D.
2	Wong Fung Lan,	"	"	30	"	"	L. F.	"	"	4	...	...	D.
3	Nika,	Indian.	"	22	Groom.	"	R. F.	"	"	1	...	...	D.
4	Tsang Kan,	Chinese.	"	26	Coolie.	"	R. F.	"	"	1	...	...	D.
5	Chung Kum,	"	"	26	Barber.	"	R. F.	"	"	1	...	...	D.
6	Dung Maik,	"	"	16	Coolie.	"	L. F.	"	"	...	14	...	D.
7	Wong King,	"	"	21	C. C. 476.	Septic.	None.	"	"	20	...	Cured.	...
8	Lo Yung,	"	"	22	Coolie.	Bubonic.	Fem. & Cer. L. A. & R. F.	"	"	...	18	...	D.
9	Lo Shoi,	"	"	23	"	"	R. A.	"	"	...	11	...	D.
10	Li Ah Chui,	"	"	40	"	"	R. A.	"	"	1	...	...	D.
11	Kong Kwai,	"	"	37	Watchman.	"	R. F.	"	"	3	...	...	D.
12	Chan Hong,	"	"	40	Coolie.	"	R. & L. F.	"	"	14	...	...	D.
13	Hoi Sam Dai,	"	"	40	Telegraphist.	"	L. F.	"	"	3	...	...	D.
14	Fung Sing,	"	"	38	Coolie.	"	R. & L. F.	"	"	...	3	...	D.
15	Sung Wan Yam,	"	"	11	"	"	R. A.	"	"	30	...	Cured.	...
16	Chong Se Yuen,	"	F.	9	...	"	R. C. & R. F.	"	"	...	11	...	D.
17	Chong Ki Chong,	"	M.	4	...	"	L. F.	"	"	1	...	...	D.
18	Chong King,	"	"	14	...	"	None.	"	"	5	...	...	D.
19	Leung U,	"	"	41	Coolie.	Septic.	R. F.	"	"	1	...	...	D.
20	Fong Chui,	"	"	16	"	Bubonic.	R. F.	"	"	...	10	...	D.
21	Young Chai,	"	"	21	"	"	R. F.	"	"	1	...	...	D.
22	Chow Ling,	"	"	31	"	"	R. F.	"	"	2	...	...	D.
23	Ng Fall,	"	"	37	"	"	R. A.	"	"	4	...	...	D.
24	Li Ying,	"	F.	10	"	"	L. C.	"	"	2	...	...	D.
25	Chong Tso,	"	M.	30	Barber.	Septic.	None.	"	"	...	3	...	D.
26	Kong Se Chi,	"	F.	20	...	Bubonic.	L. Ing.	"	"	...	15	...	D.
27	Chan Shui,	"	F.	16	Coolie.	"	R. C.	"	"	3	...	...	D.
28	Wong Long,	"	M.	35	"	"	L. F.	"	"	...	7	...	D.
29	Lo Cui,	"	"	21	"	"	L. Ing.	"	"	1	...	...	D.
30	Lo Lam,	"	"	26	"	"	L. & R. F. L. Ing.	"	Yes.	...	In Hospi	...	tal.

No. of Case.	Patient's Name.	Race.	Sex.	Age.	Occupation.	Type of Disease.	Situation of Buboes.	Was Cinamon Essence used?	Was Carbolic Acid used?	How long in Hospital?		Result.	
										Days.	Hours.	Cured.	Died.
31	Foe Sing,	Chinese.	M.	36	Coolie.	Bubonic.	R. F.	No	No	3	...	...	D.
32	Hong Pui,	"	"	22	"	"	L. I. & F.	"	"	2	...	...	D.
33	Kwan Chan,	"	"	16	Silversmith.	Septic.	None.	"	"	1	...	...	D.
34	Hoi Luk Ging,	"	"	18	Coolie.	Bubonic.	L. Ing.	"	"	1	...	...	D.
35	Yau Se Kiu,	"	F.	16	"	"	R. Ing.	"	"	...	4	...	D.
36	Chan Chu,	"	M.	21	Coolie.	"	R. & L. Ing.	"	"	1	...	...	D.
37	Young Se King,	"	F.	25	"	"	R. F.	"	"	1	...	...	D.
38	Ali Ismail,	Indian.	M.	18	Foreman, S. D.	"	L. Ing.	"	"	2	...	...	D.
39	Ngan,	Chinese.	F.	26	"	"	R. Ing.	"	"	...	4	...	D.
40	Lan Sam,	"	M.	30	Coolie.	"	R. F.	"	"	...	5	...	D.
41	Fong Yuen,	"	"	24	Carpenter.	"	R. & L. Cer.	"	"	...	4	...	D.
42	Yung Se Noi,	"	F.	33	"	"	R. F.	"	"	1	...	...	D.
43	Cheung Se Lin,	"	"	22	"	Septic.	None.	"	"	...	11	...	D.
44	Yuen Wong,	"	M.	24	Coolie.	"	"	"	"	...	8	...	D.
45	Ng Sum,	"	"	15	"	Bubonic.	R. F.	"	"	1	...	...	D.
46	Kwan On,	"	"	31	"	"	"	"	"	17	...	Cured.	...
47	Chan Yan Choi,	"	"	28	Barber.	"	L. F.	"	"	...	...	...	D.
48	Chan Hing,	"	"	14	"	"	L. F.	"	"	4	...	...	D.
49	Kan A Fuk,	"	"	18	Coolie.	"	R. Ing.	"	"	...	...	...	D.
50	Hon Ah Mui,	"	F.	31	"	Septic.	None.	"	"	1	...	...	D.
51	Lan Wai,	"	M.	18	Coolie.	Bubonic.	L. F.	"	"	2	...	...	D.
52	Wong Fuk,	"	"	23	"	"	R. F.	"	"	3	...	...	D.
53	Lo Se Ngan,	"	F.	22	"	"	R. Ing.	"	"	1	...	...	D.
54	Khan Fai,	"	M.	25	Coolie.	"	R. F. & Ing.	"	"	...	...	...	D.
55	Fan Se Ho,	"	F.	22	"	Septic.	None.	"	"	5	...	...	D.
56	Lum Mun,	"	M.	32	Coolie.	Bubonic.	R. F.	"	"	1	...	...	D.
57	Chan Wai,	"	"	22	"	"	R. F.	"	"	1	...	...	D.
58	Wei Yu,	"	F.	44	"	"	R. F.	"	"	1	...	...	D.
59	Dung Se Mui,	"	"	60	"	"	R. F.	"	"	1	...	...	D.
60	Chan Shen,	"	M.	13	"	"	R. F.	"	"	2	...	...	D.

No. of Case.	Patient's Name.	Race	Sex.	Age.	Occupation.	Type of Disease.	Situation of Buboes.	Was Cinamon Essence used?	Was Carbolic Acid used?	How long in Hospital.		Result.	
										Days.	Hours.	Cured.	Died.
61	Dung Se Tim Dai	Chinese.	F.	16	...	Septic. Bubonic.	None.	No	No	...	7	...	D.
62	Tun G. Yuen	"	M.	16	Coolie.	"	R. F.	"	"	...	2	...	D.
63	Lam Pui I	"	"	30	"	"	L. F.	"	"	...	6	...	D.
64	Mun Fan	"	M.	18	Coolie.	"	L. F.	"	"	...	1	...	D.
65	J—A—	Jew.	"	28	Clerk.	"	R. F.	"	"	...	32	Cured.	...
66	Johoroh Mahommed	Indian.	F.	20	...	"	L. F.	"	"	...	16	...	D.
67	Yung Se Fung	Chinese.	"	27	...	"	R. Ing.	"	"	...	1	...	D.
68	Nat Se Ngan Ban	"	"	16	...	"	L. F.	"	"	...	12	...	D.
69	Wong Ching	"	M.	23	Coolie.	"	R. F.	"	"	...	2	...	D.
70	Wong Fwai	"	"	18	"	"	R. F.	"	"	...	31	Cured.	...
71	Ju Se Yan Ching	"	F.	16	...	"	R. A.	"	"	...	1	...	D.
72	Ü Cheong	"	M.	29	Coolie.	"	L. F.	"	"	...	11	...	D.
73	Li Kai Tseung	"	M.	8	...	"	R. A.	"	"	...	8	...	D.
74	Ye Ngan Kwai	"	F.	49	...	"	L. Ing.	"	"	...	2	...	D.
75	Ching Se Kwai	"	"	25	...	"	R. & L. Cer.	"	"	...	10	...	D.
76	Lai San	"	M.	23	Coolie.	"	R. A.	"	"	...	13	...	D.
77	Ab Kit	"	"	15	"	"	None.	"	"	...	1	...	D.
78	Ma Han	"	"	22	"	Septic. Bubonic.	None.	"	"	...	4	...	D.
79	Liu Kun Fuk	"	"	30	"	"	L. F.	"	"	...	2	...	D.
80	Li San	"	"	35	"	"	R. C.	"	"	...	2	...	D.
81	Ip Kwong	"	"	28	"	"	R. F.	"	"	...	5	...	D.
82	Kwan Kit	"	"	29	Seaman.	"	L. F.	"	"	...	3	...	D.
83	Mo Chun Lo	"	F.	23	C. C. 391	Septic. Bubonic.	None.	"	"	...	1	...	D.
84	Kong Se Ying	"	"	79	...	"	R. A.	"	"	...	3	...	D.
85	Ng Se Cheung	"	"	35	...	"	L. A.	"	"	...	22	Cured.	...
86	Ng Se Ng	"	"	61	Amah.	"	L. Ing.	"	"	...	2	...	D.
87	Choi Se Wah	"	"	16	...	"	L. C.	"	"	...	26	Cured.	...
88	Ngan Tong	"	M.	33	Coolie.	"	L. F.	"	"	...	47	Cured.	...
89	So Se Dai	"	F.	63	...	"	R. Ing.	"	"	...	2	...	D.
90	Chan Se Lin	"	"	12	...	"	R. A.	"	"	...	2	...	D.

No. of Case.	Patient's Name.	Race.	Sex.	Age.	Occupation.	Type of Disease.	Situation of Buboes.	Was Cinnamon Essence used?	Was Carbolic Acid used?	How long in Hospital?		Result.	
										Days.	Hours.	Cured.	Died.
91	Wong Yen,	Chinese.	M.	16	Coolie.	Bubonic.	R. F.	No	No	1	...	...	D.
92	Soo Hop,	"	"	28	"	"	L. Ing. & L. Cer.	"	"	...	...	Cured.	...
93	G. Shimmura,	Japanese.	"	25	Farmer.	"	R. C.	"	"	...	...	...	D.
94	Lan Hen,	Chinese.	"	20	Blacksmith.	"	R. F.	"	"	...	...	...	D.
95	Ng Luk,	"	"	18	Coolie.	"	L. Cer.	"	"	...	...	...	D.
96	Augustine Natal,	Spanish.	"	(Omth.)	...	"	L. A.	"	"	1	...	...	D.
97	Lam Nam,	Chinese.	"	16	Carpenter.	"	L. F.	"	"	...	...	...	D.
98	Un Fat,	"	"	21	Coolie.	"	R. F.	"	"	1	...	...	D.
99	Yik Se Kan Yung,	"	F.	51	...	Septic.	None.	"	"	3	...	...	D.
100	Yse She,	"	M.	30	Coolie.	Bubonic.	R. F.	"	"	2	...	...	D.
101	Unknown,	"	"	45	"	"	L. F.	"	"	1	...	...	D.
102	Tung Hop,	"	"	30	"	"	L. F.	"	"	...	...	...	D.
103	Pun Kai,	"	"	24	"	"	R. A.	"	"	23	...	Hospital.	D.
104	Chan Ping,	"	"	28	"	"	R. F.	"	"	4	...	...	...
105	Yong Sing Ye,	"	"	16	"	"	L. C.	"	"	...	...	...	...
106	Nichi Hora,	"	F.	26	"	"	R. F.	"	"	3	...	...	D.
107	Wong Ping,	Japanese.	M.	36	Coolie.	"	R. F.	"	"	2	...	...	D.
108	F—H—M—,	Chinese.	"	20	Foreman, S. D.	Septic.	None.	"	"	2	...	...	D.
109	Wan Tsan Fuk,	Eurasian.	"	16	Coolie.	Bubonic.	R. A.	"	"	2	...	...	D.
110	Ng Pin,	Chinese.	"	22	Artisan.	"	L. Ing.	"	"	10	...	Cured.	...
111	Cheung Wai Chung,	"	"	48	"	"	L. F.	"	"	1	...	...	D.
112	Ho Chai,	"	"	25	Coolie.	"	L. F.	"	"	2	...	...	D.
113	Ediljee Manekjee,	"	"	55	Rat-catcher.	"	L. F.	"	"	1	...	...	D.
114	Kim Nosuki Fughira,	Indian.	"	38	Draper.	"	L. F.	"	"	1	...	...	D.
115	H. Okada,	Japanese.	"	19	Seaman.	"	R. A.	"	"	1	...	...	D.
116	Chee Chong,	"	"	3	Engineer.	"	L. F.	"	"	1	...	...	D.
117	Leung Koo,	Chinese.	"	16	Silversmith.	Septic.	None.	Yes	Yes	28	...	Cured.	...
118	Sophie Mahomed,	Indian.	F.	18	"	Bubonic.	R. F.	No	No	1	...	...	D.
119	Li Shun,	Chinese.	M.	44	"	"	L. F.	"	"	8	...	Cured.	...
120	Lai Poy,	"	"	31	Coolie.	Septic.	None.	"	"	...	...	...	D.
					"	Bubonic.	R. Ing.	"	"	1	...	...	D.

No. of Case.	Patient's Name.	Race.	Sex.	Age.	Occupation.	Type of Disease.	Situation of Buboes.	Was Cinnamon Essence used?	Was Carbolic Acid used?	How long in Hospital?		Result.	
										Days.	Hours.	Cured.	Died.
121	Cheung Sun Kuo,	Chinese.	M.	21	C. C. 394.	Bubonic.	R. F.	No	No	...	In	Hospital.	...
122	Li Kam,	"	"	16	Cook.	Septic.	None.	"	"	16	...	Cured.	D.
123	Chow Kum,	"	"	23	Coolie.	Bubonic.	L. F.	"	"	...	10	...	D.
124	Lam Choi,	"	"	40	Hawker.	"	L. F.	"	"	...	...	...	D.
125	Unknown,	"	"	25	Coolie.	"	L. F.	"	"	2	...	...	D.
126	Sundi Khan,	Indian.	"	25	P. C. 716.	"	L. F.	"	"	2	...	...	D.
127	Cheung Shui,	Chinese.	"	20	Coolie.	"	R. F.	"	"	1	...	...	D.
128	Tsang Chung,	"	"	14	Mason.	"	L. Ing.	"	"	1	...	...	D.
129	Tsoi Lau,	"	F.	15	...	"	R. A. & R. C.	"	"	1	...	...	D.
130	Chang Wai,	"	M.	23	Coolie.	"	R. F.	"	"	1	...	...	D.
131	Sakichi Saito,	Japanese.	"	46	Draper.	"	R. F.	"	"	1	...	...	D.
132	Chong Se,	Chinese.	F.	30	...	Septic.	None.	"	"	2	...	...	D.
133	J— M—,	British.	M.	51	...	"	"	"	"	2	...	...	D.
134	Ye Man,	Chinese.	"	13	...	Bubonic.	R. F.	"	"	...	6	...	D.
135	Yong Chik,	"	"	26	Coolie.	"	R. F.	"	"	2	...	...	D.
136	Ho Yin,	"	"	22	"	Septic.	None.	"	"	...	6	...	D.
137	Leung Chung On,	"	"	32	Boatman.	"	"	"	"	...	...	...	D.
138	Isher Singh,	Indian.	"	34	Asst. Warder.	Bubonic.	R. F.	"	"	5	...	...	D.
139	D— M—,	British.	"	42	Police Inspector.	"	R. F.	"	Yes.	23	...	Cured.	...
140	Lam Kow,	Chinese.	F.	15	...	Septic.	None.	"	No	31	...	Cured.	...
141	Mok Ying,	"	M.	21	Coppersmith.	Bubonic.	R. C.	"	"	...	4	...	D.
142	Li Se Kwai,	"	F.	18	...	"	R. Ing.	"	Yes.	...	...	...	D.
143	Li Ki,	"	M.	22	Coolie.	"	R. F.	"	No	2	...	...	D.
144	Kwan Luk,	"	"	27	"	"	R. F.	"	Yes.	1	...	...	D.
145	Low Ching,	"	"	20	"	"	R. F.	"	"	4	...	...	D.
146	Lam Chun,	"	"	38	"	"	R. F.	"	"	2	...	...	D.
147	Wong Sing,	"	"	57	"	"	R. F.	"	"	1	...	...	D.
148	Pun Hin,	"	"	19	"	Septic.	None.	"	"	...	1/2	...	D.
149	Wong Se Ho,	"	F.	33	"	Bubonic.	R. A.	"	"	4	...	...	D.
150	Unknown,	"	"	3	"	Septic.	R. F. & Ing.	"	"	35	...	Cured.	...

No. of Case.	Patient's Name.	Race.	Sex.	Age.	Occupation.	Type of Disease.	Situation of Buboes.	Was Cinamon Essence used?	Was Carbolic Acid used?	How long in Hospital?		Result.	
										Days.	Hours.	Cured.	Died.
151	Mahammed Hoosan,	Indian.	M.	25	Interpreter.	Septic.	None.	No	Yes.	16	...	Cured.	...
152	Chan Fai,	Chinese.	"	24	Coolie.	Bubonic.	R. F.	"	"	4	...	...	D.
153	Unknown,	"	"	25	"	"	L. F.	"	"	...	6	...	D.
154	Tsang Se Ngan,	"	F.	49	"	"	R. F.	"	"	1	...	...	D.
155	Chan Bo,	"	M.	23	Coolie.	"	L. A.	"	"	2	...	...	D.
156	Lam Fong,	"	"	49	"	Septic.	None.	"	"	...	4	...	D.
157	Leung Se Shop,	"	F.	28	"	Bubonic.	R. C.	"	"	1	...	...	D.
158	Chan Sing,	"	M.	23	Coolie.	"	L. F.	"	"	2	...	...	D.
159	Pun Pin,	"	"	28	"	Septic.	None.	"	"	8	...	Cured.	...
160	Wei Yuen,	"	"	48	"	Bubonic.	L. F.	"	"	1	...	...	D.
161	F—A—,	"	"	25	P. C. 106.	Septic.	None.	"	"	23	...	Cured.	...
162	A—T—,	British.	F.	34	"	"	"	"	"	16	...	Cured.	...
163	Li Sing,	Portuguese.	M.	35	Coolie.	"	"	"	"	10	...	Cured.	...
164	To Cheung,	Chinese.	"	53	Wardboy.	"	"	"	"	13	...	Cured.	...
165	Ye Chung,	"	"	58	Coolie.	Bubonic.	R. & L. F.	"	"	...	3	...	D.
166	Ho Sik,	"	"	33	"	Septic.	None.	"	"	7	...	Cured.	...
167	Chan Fong,	"	"	16	"	Bubonic.	R. F.	"	"	...	8	...	D.
168	Tse Sam,	"	"	36	Storekeeper.	"	L. F.	"	"	1	...	...	D.
169	Chong Kwon Sang,	"	"	14	"	"	L. Ing.	"	"	...	10 min.	...	D.
170	Lam Wing Sang,	"	"	22	Coolie.	"	L. F.	"	"	2	...	...	D.
171	Wong Hung,	"	"	34	"	"	R. F.	"	"	...	5	...	D.
172	Yan Tan,	"	"	28	"	"	R. Ing.	"	"	14	...	...	D.
173	M—M—W—,	British.	"	36	Engineer.	Septic.	None.	"	"	...	...	Cured.	...
174	Umi Tanigate,	Japanese.	F.	30	"	"	R. F.	"	"	14	...	Cured.	...
175	Chou Ku,	Chinese.	M.	19	"	"	"	"	"	15	...	...	D.
176	Lau Ying,	"	"	20	Coolie.	Bubonic.	R. F.	"	"	...	6	...	D.
177	A—M—A—,	Armenian.	"	10	Wardboy.	Septic.	None.	"	"	11	...	Cured.	...
178	Tsang Chen,	Chinese.	"	32	"	Bubonic.	R. F.	"	"	1	...	...	D.
179	Ah Kun,	"	"	18	Coolie.	"	L. F.	"	"	2	...	...	D.
180	Hoi Hai,	"	"	29	"	"	L. Ing.	"	"	36	...	Cured.	...
							R. Ing.			1	...	...	D.

No. of Case.	Patient's Name.	Race.	Sex.	Age.	Occupation.	Type of Disease.	Situation of Buboes.	Was Cinamon Essence used?	Was Carbolic Acid used?	How long in Hospital?		Result.	
										Days.	Hours.	Cured.	Died.
181	Wong Yim Yan,	Chinese.	F.	42	...	Bubonic.	R. F.	No	Yes	1	...	...	D.
182	Ichi Taura,	Japanese.	"	30	...	"	R. Ing.	"	"	4	...	...	D.
183	Leung Chan,	Chinese.	M.	18	Coolie.	Septic.	None.	"	"	4	...	...	D.
184	Su Kwai,	"	"	28	Engineer.	Bubonic.	L. F.	"	"	3	...	...	D.
185	A—C—,	British.	"	36	"	Septic.	None.	"	"	29	...	Cured.	...
186	Wong Kwong,	Chinese.	"	19	Coolie.	"	"	"	"	12	...	Cured.	...
187	Unknown,	"	"	30	"	Bubonic.	L. A.	"	"	1	...	...	D.
188	Tsang Hoi Kwai,	"	"	72	"	Septic.	None.	"	"	...	...	...	D.
189	M—B—,	Philippino.	"	9	...	Bubonic.	R. F.	"	"	11	...	Cured.	...
190	Mahommed Taky Khan,	Indian.	"	32	Coolie.	Septic.	None.	"	"	18	...	Cured.	...
191	Hai Fung,	Chinese.	"	28	C. C. 179.	"	"	"	"	15	...	Cured.	...
192	Matabadi,	Indian.	"	25	Asst. Warder.	"	"	"	"	29	...	Cured.	...
193	Garmikh Singh,	"	"	32	"	"	"	"	"	12	...	Cured.	...
194	Ng Fat,	Chinese.	"	31	Coolie.	Bubonic.	R. F.	"	"	...	In Hospi tal.	...	...
195	Abdul Rahim,	Indian.	"	22	Watchman.	"	L. A.	"	"	...	In Hospi tal.	...	...
196	Li Kan,	Chinese.	"	51	Coolie.	Septic.	None.	"	"	6	...	...	D.
197	Wong Hing,	"	"	21	"	"	"	"	"	29	...	Cured.	...
198	Choi Fa,	"	"	17	"	"	"	"	"	...	1	...	D.
199	Sunda Singh,	Indian.	"	25	Watchman,	"	"	"	"	...	...	Cured.	...
200	Katha Singh,	"	"	30	P. C. 750.	"	"	"	"	11	...	Cured.	...
201	Chung Tim,	"	"	31	Coolie.	"	"	"	"	11	...	Cured.	...
202	G—N—H—,	Chinese.	"	22	P. C. 62.	"	"	"	"	28	...	Cured.	...
203	Ng Yau,	British.	"	23	Wardboy.	"	"	"	"	9	...	Cured.	...
204	Mal Singh,	Chinese.	"	32	P. C. 815.	"	"	"	"	7	...	Cured.	...
205	Ching Fong,	Indian.	"	28	C. C. 354.	"	"	"	"	13	...	Cured.	...
206	Leung Wong Hai,	Chinese.	"	20	"	Bubonic.	R. C.	"	"	18	...	Cured.	...
207	Ip Se Hai,	"	F.	34	"	Septic.	None.	"	"	9	...	Cured.	...
208	Ip Sik,	"	M.	34	Coolie.	Bubonic.	R. Ing.	"	"	2	D.
209	Yeung Him,	"	"	25	"	Septic.	None.	"	"	13	...	Cured.	...
210	So Wood,	"	"	25	"	"	"	"	"	1	D.

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										Days.	Hours.	Cured.	Died.
211	Leung Wan,	Chinese.	F.	13	...	Septic.	None.	No.	Yes.	1	D.
212	Chu Yu,	"	M.	59	Coolie.	Bubonic.	L. I. & F.	"	"	33	...	Cured.	...
213	Li Sen,	"	"	38	"	Septic.	None.	"	"	10	...	...	D.
214	Lai Hong,	"	"	28	"	"	"	"	"	13	...	Cured.	...
215	Yun Kwai,	"	"	21	"	"	"	"	"	13	...	"	...
216	Wong Choi Ha,	"	F.	19	"	"	"	"	"	9	...	"	...
217	Ahmet Khan,	Indian.	M.	20	Farmer.	Bubonic.	R. Ing.	"	"	22	...	"	...
218	Yang Se Lin,	Chinese.	F.	4	...	Septic.	None.	"	"	20	...	"	...
219	Ng Dong,	"	M.	45	Coolie.	"	"	"	"	2	...	"	D.
220	Sik Mahomed,	Indian.	F.	70	Storekeeper.	Bubonic.	R. A.	"	"	3	...	"	D.
221	Lam Sai Kam,	Chinese.	F.	16	...	Septic.	None.	"	"	8	...	"	D.
222	Go Yui,	"	M.	30	Coolie.	"	"	"	"	...	7	Cured.	...
223	Wong Choi Hai,	"	F.	15	...	Bubonic.	R. A.	"	"	1	...	...	D.
224	Cheng Se Wan,	"	"	36	...	"	None.	"	"	20	...	Cured.	D.
225	Ng Hang,	"	"	20	Coolie.	"	"	"	"	9	...	"	...
226	Kan Yau Kwai,	"	M.	33	...	"	"	"	"	22	...	"	...
227	Sundar Singh,	Indian.	"	33	"	"	"	"	"	7	...	"	...
228	Lam Yang,	Chinese.	"	22	P. C. 519,	"	"	"	"	9	...	"	...
229	E—E—,	British.	"	29	Warder.	"	"	"	"	26	...	"	...
230	Cheung Sam,	Chinese.	"	28	Coolie.	"	"	"	"	...	In	Hospi	tal.
231	Ebrahim,	Indian.	"	26	Assistant Warder.	"	L. C.	"	"	...	In	Hospi	tal.
232	Katita Sheik,	Chinese.	"	50	Coolie.	Septic.	None.	"	"	18	...	Cured.	...
233	Fakir Khan,	Indian.	"	30	Watchman.	"	"	"	"	13	...	Cured.	...
234	Lau Ti,	"	"	24	C. C. 285.	"	"	"	"	10	...	Cured.	...
235	Long Kwai,	Chinese.	"	35	Carpenter.	Bubonic.	R. C.	"	"	1	7	...	D.
236	Tsang Wong Ping,	"	F.	14	Wardboy.	Septic.	None.	"	"	...	7	...	D.
237	Ng Fuk,	"	M.	25	Tailor.	"	"	"	"	2	...	...	D.
238	Fu Yat On,	"	"	29	Coolie.	Bubonic.	R. F.	"	"	3	D.
239	Chan Hok,	"	"	28	"	Septic.	None.	"	"	D.
240	Lee Wan,	"	"	28	"	Bubonic.	R. F.	"	"	...	4	...	D.

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										Days.	Hours.		Cured.
241	Lee Sze Mui.....	Chinese.	F.	9	...	Bubonic.	R. F.	No	Yes.	1	D.
242	To Kwai,	"	M.	31	C. C. 360	Septic.	None.	"	"	19	...	Cured.	...
243	Kaiser Singh,	Indian.	"	26	P. C. C. 76	"	"	"	"	8	...	Cured.	...
244	H— K—,	British.	"	33	Inspector, S. D.	"	"	"	"	...	In	Hospi- tal.	...
245	H— M—,	"	"	21	Army Officer.	Bubonic.	L. F.	"	"	6	...	Cured.	...
246	P— F— R— A—,	"	"	29	"	"	L. Ing.	"	"	18	...	Cured.	...
247	D— W—,	"	"	22	Stoker.	Septic.	None.	"	"	19	...	Cured.	...
248	Ladha Singh,	Indian.	"	24	P. C. 823	"	"	"	"	14	...	Cured.	...
249	C— A— R—,	British.	"	32	School-master.	"	"	"	"	6	...	Cured.	...
250	Goolum Mayden,	Indian.	"	25	Fireman.	"	"	"	"	27	...	Cured.	...
251	G— A— P—,	British.	"	48	Captain M.	"	"	"	"	4	...	Cured.	...
252	Thicker Singh,	Indian.	"	20	P. C. 524.	"	"	"	"	8	...	Cured.	...
253	—,	British.	F.	42	...	Bubonic.	L. Ing. & F.	"	"	20	...	Cured.	...
254	D— O'K—,	"	M.	32	Inspector, S. D.	Septic.	None.	"	"	14	...	Cured.	...
255	Yekoshi Kuni,	Japanese.	"	15	...	Bubonic.	R. C.	"	"	26	...	Cured.	...
256	W— M—,	British.	"	27	Wardmaster.	Septic.	None.	"	"	6	...	Cured.	...
257	—,	"	F.	25	...	"	"	"	"	8	...	Cured.	...
258	Noor Ahmed,	Indian.	"	25	Asst. Warder.	"	"	"	"	5	...	Cured.	...
259	M— J— D—,	British.	M.	43	Engineer.	"	"	"	"	14	...	Cured.	...
260	O'Kani,	Japanese.	F.	19	...	"	"	"	"	16	...	Cured.	...
261	A— P—,	French.	M.	28	Merchant.	Bubonic.	L. F.	"	"	4	...	...	D.
262	Kwourm Deen,	Indian.	"	22	Watchman.	"	R. F.	"	"	...	8	...	D.
263	A— J— M—,	British.	"	23	Officer, Land Court.	"	L. F.	"	"	...	In	Hospi- tal.	...
264	Tung Yung,	Chinese.	"	32	Coolie.	Septic.	None.	"	"	19	...	Cured.	...
265	J— H—,	British.	"	30	Armourer Sergt.	Bubonic.	L. A.	"	"	16	...	Cured.	...
266	Matoes Fernandez,	Indian.	"	40	Cook.	Septic.	None.	"	"	...	In	Hospi- tal.	...
267	Joseph Morel,	"	"	28	"	"	"	"	"	...	In	Hospi- tal.	...
268	G. Pinto,	"	"	50	Pantryman.	"	"	"	"	...	In	Hospi- tal.	...
269	Domingo F. Carlos,	"	"	25	Butcher.	"	"	"	"	...	In	Hospi- tal.	...
270	Gabriel de Silva,	"	"	33	Baker.	"	"	"	"	...	In	Hospi- tal.	...

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										Days.	Hours.	Cured.	Died.
271	Maurice De Souza,	Indian.	M.	38	Steward.	Septic.	None.	No	Yes	...	In	Hospi- tal.	tal.
272	Cipriano Pereira,	"	"	22	"	"	"	"	"	...	In	Hospi- tal.	tal.
273	A— G— W— E—,	British.	"	24	"	"	"	"	"	...	In	Hospi- tal.	tal.
274	Paulo Fernandes,	Indian.	"	21	Pantryman.	"	"	"	"	...	In	Hospi- tal.	tal.
275	Augustin Minezi,	"	"	21	Steward.	"	"	"	"	...	In	Hospi- tal.	tal.
276	Remedios Almedi,	"	"	22	Pantryman.	"	"	"	"	...	In	Hospi- tal.	tal.
277	Antonia Pacheco,	"	"	22	Waiter.	"	"	"	"	...	In	Hospi- tal.	tal.
278	J— R— M—,	British.	"	40	Engineer.	"	"	"	"	...	In	Hospi- tal.	tal.
279	Kaichi Soda,	Japanese.	"	39	Merchant.	"	"	"	"	...	In	Hospi- tal.	tal.
280	Choo Singh,	Indian.	"	55	Watchman.	"	"	"	"	...	In	Hospi- tal.	tal.
281	Leung An Lum,	Chinese.	"	25	Cook.	"	"	"	"	2	...	...	D.
282	Mah Bal Shah,	Indian.	"	40	P. C. 552.	"	"	"	"	9	...	...	Cared.
										...	In	Hospi- tal.	tal.

