

Local & Munl. (1899) Department.

MISCELLANEOUS.

G.O., No. 484M

DATED 13-4-99.

INDEXED. DISPATCHED

[Despatch Abstract.]

Administration reports — Recording with
remark the report of the Health Officer of
the Madras Municipality regarding cases
of revaccination referred to in the
of the Madras Municipality for 1897-28.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.



Local & Munl. (1898) Department.

CURRENT No. 2900-16

TO BE RETURNED
WITH REPLY.

N^o 10948 28-9-98

Order

From

THE PRESIDENT,
Municipal Commission,
Madras.

Referred to the Sanitary Com-
-missioner for remarks.

/ By order/

H. No. 1344

KR
20/9/98

A Edgington
Ag Assistant Secretary

Dated 7th Sept/98

Received 10 SEP 1898

Registered

Enclosures 2

Spare copies

SUBJECT.

To

The Sanitary Commissioner

Submitting with reference
to G.O. N^o 2201 M 7 11/10/97
a report from the Health Officer
re. case of re-vaccination
inspected by him.

2/20/9

KR 11/12

Ag. President

Cus 2900m. of 98 +
824m. of 99

Misc. order No 484. Mems of 13/4/99
Recorded.

2. The President's attention
is drawn to the Sanitary Commis-
-sioner's remarks in para. 4 of his
letter read above.

V.R.
19/3/99

11. 11. 99.

BACK PAPERS.

G. O.	No.	Department.	Date.

FURTHER PAPERS.

G. O.	No.	Department.	Date.

H. No. 13/9

Municipal Office,

Health Department,

Cuc. 1 to H. No. 1319 of 5/9/98

Municipal Office,
Health Department,
CALCUTTA.

I inspected 193 cases of re-vaccination at the
Penitentiary & Natal Emigration depôt, exclusive of cases
which had had small pox. 145 were successful and 48 unsuccessful
I took no case as a re-vaccination unless there were marks of
previous vaccination and classed all re-vaccinations which did
not give a typical vesicle as unsuccessful. The per-centage of
success was 75.2. The fact that many of the prisoners had been
previously vaccinated on 2 or 3 occasions somewhat lowered the
average. I also inspected 172 cases of vaccination in subjects
who had had small pox not less than 10 years before. Most of
them had deeply pocked faces. 130 were successful and 42 unsuc-
cessful. This gives a per-centage of 75.6 successful, which is
slightly higher than the per-centage in re-vaccination. The
vesicle in most of these small pox cases were as typical as
those that occur in infants vaccinated for the first time; as
the accuracy of my results may be doubted I may mention that
Dr. Becker, P.M.O. to the German Colonial troops in East Africa
inclines to the belief that amongst coloured races or those
living in Equatorial regions the immunity acquired by previous
vaccination or by small pox tends to wear off sooner than in
temperate climes.

Calcutta)
18--2--98.)

(Sd) J. Nield Cook, D.P.H.,
Health Officer to the
Calcutta Municipal Corporation &
late Health Officer of the
Madras Municipality.

(True copy)

Ag. President, Munl. Comm.

From

SURGEON-LIEUT. J. W. CORNWALL, I. M. S.

Health Officer,

Madras Municipality.

To

The Ag. President,

Sir,

M . M . C .

Enclosure.

I have the honour to inform you that I have now completed the examination of re-vaccination cases required by G.O. No.2201 M. dated 11-10-97 and begun by the late Health Officer. Appended is a copy of his remarks on the cases he examined himself before resigning his appointment in the Madras Municipality.

My inspection was conducted on much the same lines. No case was registered as re-vaccination unless there were either marks of a previous vaccination or scars on the individual's face indicative of an attack ^{of} small-pox. Almost every man seen averred that he had suffered from small-pox at some period of his life, whether he bore pocks or not.

As regards the type of vesicle declared to be a successful inoculation, I took every case, in which the formation of lymph in one or more of the points of insertion was apparent, as a successful re-vaccination. Dr Cook writes that he took only those cases in which there was a "typical vesicle". If he means by this that only those cases were registered, in which a vesicle, such as is seen in a successful primary vaccination, was formed, then his results are not comparable with mine, for I hold that in many secondary vaccinations the vesicle is not

typical though the result may without doubt be classed as successful. If the organism is protected in some degree by a previous vaccination or a previous attack of small-pox, it is hardly to be expected that the result of re-vaccination will be a typical vesicle anymore than that the disease would run a typical course if attacking a partially immune individual. If lymph is formed at all, it must mean that the individual is not entirely insusceptible to the insertion of vaccine or the incidence of smallpox. This can only be verified by taking some of the lymph from a typical vesicle ^{and} ~~or~~ trying its effect on a susceptible infant. Many cases were observed of persons with deeply scarred faces in whom all th of the six insertions exhibited as typical vesicles as would be expected to follow a primary vaccination in an infant. ~~Dr Cook has apparently made a slight mistake in the determination of his averages. From his figures it appears that there was a percentage of 75.7 successes in his re-vaccination cases, not 76.2 as stated in his letter and a percentage of 76.3 successes in his vaccination after small-pox cases instead of 75.6.~~

The fact that the percentage of successes in the cases I examined is very near that of the cases Dr Cook examined, ~~being 1.5 % lower in the re-vaccination cases and 1.3 % higher in the vaccination after small-pox,~~ may be taken as proof that our ideas of a successful re-vaccination practically coincided, for there is room for a good deal of difference when the number of cases examined is so small.

Adding the results together, it will appear that a total of 1169 re-vaccinated persons were examined and of these 76.6 % showed evidence that the inoculation had been successful.

I have the honour to be,

Sir,

Your most obedient servant,

J. W. Cornwall

Surgn. Lt.

Health Officer, M.M.C.

3
2900/21/98

MUNICIPALITY OF MADRAS,
Health Department,

Madras, 7th September 1898

M.Inst.C.E.,

GEORGE MOORE, RT., C. I. E.,

Ag. President, Municipal Commission.

MUNICIPAL
NT No. 2900

to Government,

and Municipal Department,

Fort St. George.

to para 4 of G.O.No.2201 M.,

I have the honour to forward the

in Lieutenant J.W.Cornwall, Health

ity.

I have the honour to be,

Sir,

Your most obedient servant,

R.H. Mis.

Ag. President, Munl. Comm.

Depot.	Particulars	Total	Success ful	Fail
			Inspected	
Natal depot.	Re-Vaccination after small pox	409	335	74
do.	Re-Vaccination after successful vaccination	175	123	52
			Inspected	
	Re-vaccination after small pox	172	130	42

Madras
30 August 1898

[Signature]
6/9/98

2
2900/M/98

18/1962

No 2237
S

Forwarded to the Health
Officer Madras through
the Principal Municipal
Commissioner for revision
and favour of return
to be made.

W. H. C. S.
Secy. and for Madras

5/9/98. H. O.

15/6/98
11/10/98
OFFICE OF SANITARY COMMISSIONER
No. 3406 S.
12 OCT. 98
GOVERNMENT OF MADRAS
6.10.98

Returned to the
Sanitary Commission
of Madras, the
necessary measures having
been made.

G. C. Moore Esq.
President,
M.C.C.
7-10-98

Local & Munl. (1899) Department.

CURRENT No. 824 m



From *The Sanitary Commissioner
for Madras.*

Order

No. 253 ✓

Dated 14-3-99

Received 15-3-99

Registered 16-3-99

Enclosures + filed no 2900 m of 98

Spare copies. nil returned.

SUBJECT.

*Forwarding the remarks of the
Health Officer, Madras regarding
Revaccination.*

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

[300-10-2-99.]

No. 253
V

Office of Sanitary Commissioner,
Madras, 14th March 1899.

From

Lieut.-Colonel W. G. King, M.B., C.M., D.P.H., I.M.S.,

Sanitary Commissioner for Madras,

To

The

*Secretary to Government,
Local & Municipal Department,
Fort St. George.*

Enclosures.

Sir,

I have the honor to forward herewith the remarks of the Health Officer, Madras, in connection with para 4 of this office letter No. 1030 dated 13th May 1887, embodied in G.O. No. 2201 h. dated 11th October 1897. It will be seen that he determines the re-vaccination rate at 76.6 percent, as a result of careful personal examination. The rates reported by the Municipality up to date have been as follow:—

years	Total	Success-ful	Unsuccess-ful	Unknown	Percentage of Success
1891-92	4042	2839	460	743	86.1
1892-93	3437	3185	113	139	96.6
1893-94	4504	3413	372	719	90.2
1894-95	5314	4227	418	669	91.0
1895-96	8147	6510	742	895	89.8
1896-97	7828	6024	891	913	87.1
1897-98	8254	6091	912	1251	87.0

Note.—In working out the percentage of success, unknown cases have not been taken into account.

2. It may, therefore, be held that the rates as reported by the Municipal Subordinate Vaccination Staff have been founded upon erroneous methods, as suggested by me in para 103 of my Inspection Notes on the town of Madras dated 1st November 1894.

3. As another method of ascertaining what should be about the rate of re-vaccination, it is useful to contrast the result of Vaccination after natural small-pox, or after artificial inoculation of small-pox — a mode that can rarely be observed in the present day. The following are figures gathered by me in 1891-92 in Bangalore, Vizagapatam and Mandalay, and quoted in my Annual Report for 1893 (paras 68 & 69) in urging the importance of re-vaccination:—

Place	Bearing signs of previous small-pox	Total success-fully vaccinated	Percentage of Vaccination Success
Bangalore Sepoys	56 adults	42	75
	2 children	2	100

Place	Bearing signs of previous inoculation with small pox virus at all ages		Percentage of Vaccination Success
	Total available	Total vaccinated	
Vizagapatam & Mandalay jails	335	320	80.4

It will be noted that 8th Cook's observation in the local Penitentiary, where he found 75.6 percent in small-pox cases, closely approximates results found by me in Sepoys in 1891.

4. It may, therefore I think be fairly held that in re-vaccination the rate of success should be between 75 & 80 percent, and that any increase above this should be regarded with suspicion.

5. I regret that during the transfer of my office from the Secretariat to Poona Wall Road a certain amount of confusion occurred as to my records, and that this reference has been in consequence delayed.

I have the honor to be,
Sir,

Your Most Obedient Servant,

W. H. S. S.

Lieut. Col. J. M. S.

Sanitary Commissioner
for Madras