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MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	<u>3608</u> <u>7473</u>	Press Mis.
Dated	<u>23</u> <u>8-10-</u>	<u>1880.</u>

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GOVERNMENT OF MADRAS.
PUBLIC DEPARTMENT.

6th October 1880, No. 1473.

Cinchona Febrifuge.

Read the following paper :—

No. 16. *From Surgeon-General W. R. CORNISH, F.R.C.S., C.I.E., with the Government of Madras, to the Chief Secretary to Government, dated Fort St. George, 27th September 1880, No. 408.*

I have the honor to forward, in continuation of this office letter, No. 142, of 31st March 1880, the results of a few more experiments made with the Cinchona alkaloids for the half-year ending 30th June.

2. *Sulphate of Cinchonidine.*—This drug was used in the annexed cases of fever, of which 358 were cured and 61 discharged “otherwise.” The average dose given was 7·048 grains, and the entire quantity administered in each case was 78·91 grains. The average duration under treatment was 5·053 days. Special symptoms, *e.g.*, nausea, vomiting, head-ache, &c., appeared in 31 cases or 7·4 per cent. nearly.

Type of Fever.			
Quotidian	346		
Tertian	31		
Quartan	30		
Remittent	2		
Total treated ..	409		

3. *Sulphate of Cinchonine.*—The following cases were treated; of these 1,174 recovered and 331 were not cured. Special symptoms occurred in 76 cases or 5·4 per cent. The average dose was 5·624 grains, and the total amount taken by each patient 68·863 grains. The average time under treatment was 4·783 days.

Type of Fever.			
Quotidian	1,004		
Tertian	175		
Quartan	325		
Irregular	1		
Total treated ..	1,505		

Type of Fever.			
Quotidian	552		
Tertian	93		
Quartan	1,235		
Febricula	3		
Total treated ..	1,883		

4. *Quinetum.*—A larger number of cases were treated by this than by either of the preceding alkaloids. One thousand seven hundred and fifty-nine were cured and 133 were not cured. Special symptoms occurred in 61 cases, or in 3·2 per cent. The average dose was 7·27 grains, and average number of days under treatment was 4·182. The total amount taken by each patient was 107·135 grains.

Cinchona Preparations.	Average Dose given.	Average Total Quantity of Drug given in each Case.	Average Number of Days each Case was under Treatment.	Total Number of Cases Treated.	Cured.	Not Cured.
Sulphate of Cinchonidine	7·048	78·91	5·053	419	358	61
Sulphate of Cinchonine	5·624	68·863	4·783	1,505	1,174	331
Quinetum	7·27	107·135	4·182	1,882	1,794	133

5. From the above table it will be seen that the smallest average dose given was that of the sulphate of cinchonine; the average shortest time under treatment was when the Sikkim febrifuge was exhibited; but this drug required a large quantity to be given before the patient was cured.

6. The rate per cent. of cases cured to treated was quinetum 92.94, cinchonidine 85.5, cinchonine 78.1. In Dispensary practice patients often ceased to attend, and in regard to the proportion of cures it must be understood that only the cases which were known to have been cured are entered in the cured column.

7. So far as is known no deaths occurred among the total 3,281 treated.

8. The results of these experiments show that quinetum does not cause any more unpleasant symptoms than sulphate of cinchonine or cinchonidine. My impression is that as a rule all these drugs are given in too large doses by our medical subordinates, and that with proper precautions as to the mode and times of administration, they may all be used without inconvenience. This subject will receive departmental notice.

ENCLOSURE No. 1.

RESULTS of Treatment of Paroxysmal Fever by Sulphate of Cinchonidine.

Stations.	Total Treated.	Average Number of Grains.	Average Number of Days.	Special Symptoms.	Cured.	Died.	Otherwise.	Quotidian.	Tertian.	Quartan.	Remittent.	Febricula.	Irregular.	Average Number of Grains per Dose.
Civil Dispensary, Cochin..	47	72.66	3.636	1 Number not mentioned.	45	..	2	46	1	..	..	..	..	8.49
Civil Dispensary, Yercaud.	114	20.58	2.42		92	..	22	105	5	..	..	..	..	4.69
Civil Dispensary, Kurnool.	20	90	8.2	11	19	..	1	3	5	12	..	..	..	10.97
Madras, First District ..	15	155.3	7.46	..	13	..	2	11	4	..	..	..	..	10.73
Civil Dispensary, Coonoor.	46	102.5	4.93	1	32	..	14	44	2	..	..	..	..	5.053
Civil Dispensary, Kôtagiri.	104	15.64	1.25	..	104	..	..	101	1	..	..	..	..	6.306
Civil Dispensary, Secunderabad.	16	104.6	7.62	..	15	..	1	14	2	..	..	..	..	5.18
Civil Dispensary, Cumbum.	57	70.0	4.91	13	38	..	19	22	21	14	..	..	..	4.97
Total ..	419	..	..	31	358	..	61	346	41	30	2	..	..	7.013
Average ..	..	78.91	5.053	..	..	..	..	..	..	..	..	..	..	..

RESULTS of Treatment of Proxysnal Fever by Sulphate of Chinchonine.

Civil Dispensary, Cochin..	65	3.092	53.307	2	65	..	..	62	3	..	..	..	..	6.01
Civil Dispensary, Mañanapalle.	407	34.73	2.601	4	386	..	21	301	4	102	..	..	..	5.17
Civil Dispensary, Guntur.	638	150.5	2.22	..	506	..	192	564	134	..	..	..	..	3.18
Police Hospital, Cuddapah.	56	21.46	7.21	43	56	..	..	20	12	24	..	..	..	5.1
Civil Dispensary, Salem ..	4	48	3.25	3	3	..	1	2	1	..	..	..	..	7.1
Civil Dispensary, Kurnool.	20	122.95	11.75	8	20	..	..	4	5	11	..	..	1	10.503
Civil Dispensary, Coonoor.	34	88.3	4.67	2	22	..	12	33	1	..	..	..	..	4.16
Civil Dispensary, Palmanér.	165	26.12	3.15	..	78	..	87	..	..	165	..	..	..	4.63
Civil Dispensary, Cumbum.	56	74.4	5.107	14	38	..	18	18	15	23	..	..	..	4.86
Total ..	1,505	..	..	76	1,174	..	331	1,004	175	325	..	..	1	5.624
Average ..	..	68.863	4.783	..	..	..	..	..	..	..	..	..	..	..

RESULTS of Treatment of Paroxysmal Fever by Sikkim Cinchona Febrifuge.

Stations.	Total Treated.	Average Number of Grains.	Average Number of Days.	Special Symptoms.	Cured.	Died.	Otherwise.	Quotidian.	Tertian.	Quartan.	Remittent.	Febricula.	Irregular.	Average Number of Grains per Dose.
Civil Dispensary, Calicut..	22	48.9	3.54	7	20	..	2	20	..	..	..	2	..	6.36
Coimbatore Jails ..	7	88.57	74.42	None.	5	..	2	5	1	..	..	..	..	20
Civil Dispensary, Yercaud.	123	31.9	2.64	Number not mentioned.	101	..	27	123	3	2	..	..	..	6.99
Civil Dispensary, Cuddapah.	1,431	47.26	3.91	..	1,400	..	31	287	27	1,117	..	1	..	4.03
Civil Dispensary, Bellary.	11	561.8	5.0	3	8	..	3	11	..	..	..	..	..	11.36
Civil Dispensary, Salem ..	4	78.75	5.25	2	3	..	1	4	..	..	..	..	..	5.0
Civil Dispensary, Kurnool.	20	98.9	8.2	17	18	..	2	3	5	12	..	..	..	11.8
Civil Dispensary, Kôtagiri.	46	18.58	1.24	..	46	..	..	41	4	1	..	..	..	7.43
Civil Dispensary, Nellore.	67	146.49	5.104	4	67	..	..	49	18	..	..	..	..	9.66
Civil Dispensary, Chidambaram.	17	33.5	1.88	4	9	..	8	5	12	..	..	..	..	6.0
Civil Dispensary, Palmanér.	98	28.65	1.979	..	51	..	47	..	..	98	..	..	..	4.68
Civil Dispensary, Madura.	31	102.32	7.032	24	21	..	10	4	23	4	..	..	..	4.85
Total ..	1,882	..	..	61	1,749	..	183	552	93	1,235	..	3	..	..
Average ..	..	107.135	4.182	..	..	..	..	..	..	..	..	..	..	7.27

FORT ST. GEORGE,
27th September 1880.

(Signed) W. R. CORNISH,
Surgeon-General with the Govt. of Madras.

No. 17.

ORDER THEREON, 6th October 1880, No. 1473.

Ordered that copy of this report be transmitted to the Government of India for information in continuation of docket, No. 610-A, dated 27th April 1880, and that copies be furnished to the Revenue and Military Departments.

(True Extract.)

[Signature]
Chief Secretary.

To the Surgeon-General with the Government of Madras.
" Revenue Department.
" Military Department.

Exd. J. Wright.

Feb 24/52

Marine 1880

Feb 25/52

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THE EUROPEAN CENTRAL BANK

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Copy of report from the
Finance-General with the Government of
France on the results of the financial year with
the balance sheet for the 1880-1881 financial year
June 1881 transmitted to the Government of
India.

With accounts

1880

Communicated to the Board of Directors and

The Council of the Bank

1. Board of Directors
2. Council of the Bank

1880