

Gout. Tuberculosis

Sanatorium

Administration Report

1964



L: 421.211d, Tr. N64

N64

29668

Non-medical Staff.

LAY SECRETARY & TREASURER:

Sri M. Varadarajan

Nursing Superintendents:

NURSING SUPERINTENDENTS GRADE II:

1. Kum. Parukuttyamma.
2. Smt. Isaacs from 1-12-64.

HEAD NURSES: 7

Head Nurse on reserve duty	:	1
STAFF NURSES:		76
HOUSE KEEPER:		1
SOCIAL WORKERS:		2

Ministerial Staff.

MANAGER, AMRIT NAGAR COLONY:

1. Sri S. Rajah.

HEAD CLERK:

1. Sri K. Raman upto 13-8-64.
2. Sri. Chandrasekaran from 14-8-64.

CASHIER:

1. Sri N. Ramakrishnan.

ACCOUNTANT.

1. Sri. S. K. Chockalingam.

AUDIT ACCOUNTANT.

1. Sri G. Jagannathan from 14-8-64.

356

Minstlerial Staff—cont.

PROVISION STORE-KEEPER.

1. Sri P. Balakrishnamoorthy.

MEDICAL STORE-KEEPER :

1. Sri G. S. Jagannathan.

HEALTH INSPECTORS.

1. Sri. B. V. Natesan upto 26-2-64.
2. Sri. M. V. S. Seshadri from 26-2-64.
3. Sri. Sivaswamy upto 27-5-64.
4. Sri. P. K. Kannappan from 6-7-64.

LOWER DIVISION CLERKS :	13
STENO-TYPIST :	1
TYPIST :	2
OTHER STAFFS :	55
LAST GRADE SERVANTS :	206

Object—The object of the Sanatorium is to render medical service to Tuberculosis patients on modern scientific lines.

SHORT HISTORY.

This Sanatorium was found by one Dr. Muthu, who was in charge of Mendip Hills, Tuberculosis Sanatorium in England. On return from England, he approached the Government of Madras and got the present site and started a small Sanatorium to accommodate 12 patients. Two years after, he decided to hand over the Sanatorium to Government. A committee was appointed by the Government and based on its recommendations this Sanatorium was purchased for a value of Rs 55,000. The Government took over this institution on 24-3-1937 and started a twelve-bedded Government Tuberculosis Sanatorium. It may be mentioned that this twelve-bedded Sanatorium has grown up year after year and during this report under review the

institution has grown up to a bed strength of 616. (The institution has all kinds of facilities for treating Pulmonary T.B. and T.B. of Bone and Joints.)

There is also a Rehabilitation Centre called Amrit Nagar Colony attached to this institution with accommodation for 120 Ex-T.B patients from the Sanatorium after undergoing necessary operation or discharge. The working of the Colony and its various functions are given separately in this report.

(i) Elevation and Climate.

Height above sea level	...	110' above sea level.
Maximum and minimum temperature.		Moderate and dry.
Average rainfall		20" to 30"
Nearest town		Madras City.
Nearest Railway station		Tambaram Sanatorium (4 furlongs from the institution).
Working hours		Since the Sanatorium has inpatient service, it is working day and night.

3. GENERAL STATISTICS.

(a) Number of patients treated:—

1960	1961	1962	1963	1964
1949	2805	3114	3145	3335

(b) Number of patients admitted:—

1960	1961	1962	1963	1964
1775	2099	2427	2483	2673

(c) Daily average attendance:—

1960	1961	1962	1963	1964
723	680	661	651	674

Sanatorium Grounds:— The Sanatorium site is 250 acres of land and is situated close to hillock called "Pachamalai". It is 15 miles away on the Grand Southern Trunk Road, from Madras City.

Accommodation:—The sanctioned bed strength of this Sanatorium at present is 604. A 12 bedded ward for women university students was opened on 16-10-64 and the bed strength increased to 616.

(iv) Distribution of beds:—

Hospital Stoppages.

Rs. nP.

1. Cottage (Reserved for Reserve Bank employees and their families).	2	5	76 per day.
2. Men Special Ward	12	5	13 per day.
3. Women Special Ward	12		do.
4. Men Semi-Special Ward	13	3	50 per day.
5. Women Semi-Special Ward	8		do.
6. Post-operative beds (inclusive of 2 beds for ophthalmic cases)	40		
7. Orthopaedic beds	30		
8. Family of Army personnel	20		
9. Family of Indian Air Force	20		
10. Family of Navy	18		

Distribution of beds—cont.

11. World University Service Ward for Men	20
12. Defence Service Children Ward ..	10
13. Nurses Ward (L ward)	8
14. Railway Ward	20
15. Other General Wards	319
16. E. S. I. wards	52
17. W. U. S. for women	12
Total ..	616

• (d) Duration of treatment (in days):—

Year.	Men.	Women.	Children.	Average
1960	148	143	164	152
1961	142	162	178	143
1962	148	157	169	158
1963	152	144	185	160
1964	165	148	172	161

(e) Age-war distribution:—

Age.	1962				1963				1964			
	Pulmonary Tuberculosis.		Bones and Joints.		Pulmonary Tuberculosis.		Bones and Joints.		Pulmonary Tuberculosis.		Bones and Joints.	
	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.	Men.	Women.
1 to 5	30	9	9	..	23	15	2	1	25	24	6	6
5 to 15	58	43	6	..	35	32	3	6	55	54	7	8
15 to 25	311	361	1	1	359	347	3	4	619	181	9	4
25 to 45	893	462	3	1	727	604	1	3	901	540	13	8
45 to 65	214	20	2	..	287	50	2	1	150	38	4	1
65 and above	6	2	..	..	5	3	..	..	16	5	1	..
Total ..	1507	897	21	2	1436	991	11	15	1766	842	39	26
	2427				2453				2673			

(f) Occupation of Patients:—

1	Agriculturists (Ryots)	123	25	Gardeners	..	27
2	Artists	3	26	Hotel servers	..	19
3	Accountants	9	27	House owners	..	3
4	Attenders	12	28	Journalists	..	2
5	Barbers	17	29	Leather workers	..	16
6	Binders	19	30	Mill employees	..	9
7	Butchers	6	31	Machine-men	..	14
8	Blacksmiths	7	32	Merchants	..	67
9	Bædi workers	218	33	Mirasudars	..	7
10	Coolies	495	34	Milkmen	..	25
11	Clerks (private)	28	35	N. G. Os.	..	200
12	Cooks	24	36	Nurses	..	6
13	Cycle mechanics	30	37	Office boys	..	5
14	Carpenters	22	38	Orphans	..	9
15	Compositors	16	39	Police	..	95
16	Central Government		40	Peons	..	31
	Servants	85	41	Painters	..	3
17	Drivers	24	42	Prohits	..	4
18	Dependents on husbands and parents	148	43	Prisoners	..	26
19	E. S. I. Employees	136	44	Rikshawalah	..	35
20	Employees of Local Bodies	156	45	R.B.I. employees	..	5
21	Families of Defence Service personnel	43	46	Salesmen	..	24
22	Fruit sellers	42	47	Sweepers	..	6
23	Flower sellers	34	48	Seva Samaj inmates	..	13
24	Goldsmiths	12	49	Tailors	..	53
			50	Teachers	..	14
			51	Typists	..	9

Occupation of Patients—*cont.*

52 Unemployed ...	139	57 Ex-Servicemen ..	4
53 University students	12	58 Pensioners ..	4
54 Weavers ...	23	59 Dhobies ..	6
55 Watch repairers	3	60 Tinkers ..	9
56 State Gazetted)		61 Electricians ..	18
Officer. }	1	62 Fishermen ..	21
		63 Nuns ..	2
			2673

(g) District-War Classification.

1 Bombay ...	2	12 Nilgiris ..	1
2 Chingleput ..	309	13 Bangalore ..	1
3 Chittoor ..	1	14 Coimbatore ..	23
4 Kanyakumari ..	4	15 Delhi ..	2
5 Madras ..	1128	16 Guntur ..	1
6 Madhurai ..	3	17 Pondicherry ..	2
7 North Arcot	78	18 Salem ..	14
8 Ramanathapuram	4	19 Tirunelveli ..	21
9 South Arcot ..	55	20 Tanjore ..	15
10 Tiruchirappalli ..	3	21 Kanpur ..	2
11 Uttar Pradesh ..	2	22 Madhya Pradesh ..	2

2673

MEDICAL STATISTICS.

(b) Diagnosis

Pulmonary Tuberculosis.

Stage I	686	Spontaneous Pneumothorax	4
Empyema	2	Bronchiectasis ..	35
Stage II	845	T. B. Abdomen ..	3
Stage III	901	Menigitis ..	2
Bones & joints	94	T. B. kidney ..	1
Cystic disease of the lung	1	Thrombosis ..	1
Bronchia asthma	16	Miliary T. B. ..	14

2605

(b) Complications met with.

Laryngitis	..	...	...	..	1
Haemoptysis	..	...	...	..	98
Enteritus	..	...	...	..	1
Bronchopleural fistula		...	...	..	2
Hycomften	..	...	...	...	1
pluracy	..	...	...	..	7
Media-stinal Adenites		...	...	..	1
					111

Non-Tuberculosis.

Anemia ..	4	Leprosy ..	2
Diabetes ..	25	Pregnancy ..	48
Mycodema ..	1	Appendicectomy	1
Esenophylia ..	19	Acute Appatitis	2
		102	

Line of treatment adopted :—

In addition to the Sanatorium regime, the following methods of treatments were also adopted during the year under review:—

1. Chemotherapy (Streptomycin, P. A. S., I. N. H., in combination of any two).
2. Artificial Pneumotherapy.
3. Pneumo-Peritoneum.
4. Thorocscopy and Cauterisation and adhesions.
5. Phrenic crush.
6. Thorocoplasty.
7. Plumbage.
8. Lung Resection—Pneumonectomy, Lobectomy, Dicortica-tion of Plura and Segmental resection.
9. Schede's operation.

Deaths.

The number of deaths occurred during this year is 68 as against 76 in the last year. The percentage of deaths amongst the total number of patients treated is 2.04 % against 3.18% last year.

Daily average attendance.

The daily average number of in-patients during this year is 674 as against 651 last year.

Result of treatment.

Improved	...	...	...	...	945
Much improved	...	...	...	...	459
Arrested	..	..	...	..	749
Died	...	...	...	...	68
Discharged against medical advice	..	..	..	..	280
Not improved	..	..	...	...	172
Total					2673

Gain and Loss in Weight.

Gained	...	...	...	...	1765
Stationary	...	..	..	...	692
Loss	...	...	...	...	148
Total					2605

DEPARTMENTAL REPORTS.

Thoracic Surgery Department.

The Thoracic Surgical Clinic is functioning on every Thursday from 3rd July 1957 for discussion and selection of cases for surgical treatment. Since the operation theatre was under repairs due to air conditioning, no major operations were performed in Thoracic Surgery during 1964.

Thoracic Surgery Department—cont.

No. of minor operation performed during the year 1964 — 197

Ward Nos. 5 and ward 14 (consisting of 20 beds each) are used as post-operative for men and women, respectively.

This Sanatorium was recognized in G. O. Ms. No. 113, Health dated 27-4-54 as a Thoracic Surgical Training Centre.

As per G. O. Ms. No. 374, Health dated 1-2-55, communicated in D. M. S. P. No. 34-61/55 dated 3-2-1955, a surgical unit was formed consisting of 65 beds. Dr. C. S. Sadasivam, M. S., then Superintendent Sanatorium was appointed as Surgeon and he took over the charge of the unit on 5-2-1955.

The beds in the Surgical unit were raised from 65 to 105—vide G. O. Ms. No. 3332, Health dated 15-11 1957. Dr. C. S. Sadasivam continued to be the Surgeon in charge of Government T. B. Sanatorium, Tambaram and he is assisted by the following Medical Officers:—

1. Dr. V. Bakthavatsalu M. S.
2. Dr. S. Swayambunathan, M. B. B. S.
3. Dr. R. Soundrarajan, M. B. B. S.
4. Dr. K. Alavandar, B. Sc., M. B. B. S.
5. Dr. P. Dhanarajan, M. B. B. S.

The following types of operations were undertaken:—

1. Thoracoscopy.
2. Thorocoplasty.
3. Phrenic crush.
4. Intra-Thoracic Procedures:—
 - (a) Lobectomy.
 - (b) Pneumonectomy.
5. Pleuro Pneumonectomy.
6. Segmental resection (alone) or in conjunction with Lobectomy.

The Director, Government Tuberculosis Institute Chatput, Madras referred 21 Surgical observation cases for admission in accordance with G. O. Ms. No. 2038 Health, dated 28-5-1953. They were admitted for observation and those who were found suitable for surgery were operated.

Radiology Department.

RADIOLOGIST:

Vacant upto 12-5-64.

1. Dr. C. R. Jayakumar, M. B. B. S., from 13-5-54.

RADIOGRAPHERS, GRADE I:

1. Sri C. J. Andrews.
2. Sri K. Chandrasekaran.
3. Sri R. Rajaram, Physiotherapist Gr. II.

DARK ROOM ASSISTANT:

1. Sri M. A. Dass.

X-RAY ATTENDANTS: ●

1. Sri K. Gopal.
2. Sri V. Munusamy.

5. MALE NURSING ORDERLY:

Sri R. Govindarajulu.

6. FEMALE NURSING ORDERLY:

Smt. Mary

7. The X-Ray Department is equipped with the following plants:

- (a) 100 K. V. P. and 100 M. A. Plant
(A. E. D.) ... One.
- (b) 100 K. V. P. and 300 M. A. Plant (Phillips)
combined with radiographic screening
and Tomographic plant ... One.

Radiology Department—cont.

- (c) 15 M. A. Portable X-Ray unit (G. E.) ... One
- (d) 30 M. A. 35 K. V. P. screening (Westing
house). ... One
- (e) Camera unit for 4×5 film (Watson) ... One

The X-Ray department is consisting of a Physiotherapy section with the following units for treatment purposes:—

- (a) U. V. Lamp 225 V A C (Honovia Alpine) Vertical ... One
- (b) U. V. Lamp 225 V A C (Honovia Alpine) Portable ... One
- (c) Bisocol M I. V (Phillips) Combined U. V. and Infra-red
U. V. ray ... One
- (d) Arcivosflux 500 (Phillips) ... One

There is also a clinical photographic section which is attached to X-ray department which was looked after by one of the Radiographers.

Classes in Radiology were arranged for T. D. D. students, and also for refresher course students, etc.

The total number of x-ray chest taken during the year ... 7774
The total number of x-rays taken for region other than chest ... 843
The total number of bed x-ray taken during the year ... 56
The total amount of rupees collected by way of charges
from paying-patients for x-rays ... 3360

The comparative statement for the last three years are given below—

Years.	X-rays.	Screening.	Tomographic.
1962	10772	68	32
1963	7451	44	70
1964	8673	25	56

29668
L: 421, 211, d, 1964

Details of exposed are furnished below for the year 1964.

(a) Chest X-rays	...	...	7774
(b) Red X-rays	...	..	56
(c) Joints	...	..	247
(d) Spine	...	..	310
(e) Skull	..	..	61
(f) Abdomen	...	..	7
(g) Tomogram	..	...	136
(h) Bronchogram	..	...	30
(i) Barium meal	..	..	14
(j) Barium swallow	..	...	11
(k) Barium enema	..	..	4
(l) Plurogram	...	...	15
(m) I. V. P.	...	...	1
(n) Signogram	..	...	3
(o) Colylistogram	..	..	3

The number of sittings given to the patients for U. V. Ray therapy is 3.

The number of sitting givens for infra-red therapy is Nil

Number of sittings given to patients for Infra-red therapy is 41.

Number of sittings given to patients for short-wave therapy 70.

It is felt then an additional room may be allotted to X-ray Department because of the present crowding in the department.

Department of Bacteriology and Clinical Pathology.

BACTERIOLOGIST :

Dr. C. T. Samuel, M. B. B. S. T. D. D. upto 13-5-64.
 Dr. (Kum.) Indira Sambasivam, M. B. B. S. D. G. O.
 from to 16-5-64 to 24-7-64
 Dr. S. Ramaraghavan, M. B. B. S. from 25-7-64.

Department of Bacteriological and Clinical Pathology—cont.

LABORATORY ASSISTANT :

1. Kum. L. Janakavalli, B. SC.
2. Sri S. Sivanandam, B. SC. upto 30-4-64.
3. Sri S. V. Devapriyamgnanadorai, B. SC. from 3-12-64.

LABORATORY TECHNICIANS :—

1. Sri C. P. John, Grade I.
2. Sri P. Rangasamy, Grade II.
3. Sri K. S. Mani.
4. Sri S. Dandapanj.

LABORATORY ATTENDANTS :

1. Sri R. Selvaraj.
2. Sri G. Royappan.
3. Sri M. Rangasamy.
4. Sri M. Elumalai

Complete investigations of blood, urine, motion, sputum, etc., are being done for in-patients of this Sanatorium. All bio-chemical investigations are also undertaken. Inoculation for culture and preparation for media for culture work are done. Museum work is also undertaken.

The total number of work done during the year is as follows :—

(a Clinical Pathology.

(a) Haematological examination :—

R. B. C. Count	..	..	512
W. B. C. Count	..	..	4095
Differential count & Blood smear			4466
H. B. estimation	..	...	3877
Bleeding time	...	...	50
Packed cell volume	..	...	—
Total	...	...	13,000

Sig—3.

(a) Clinical Pathology—cont.

(b) Urina examined	..	..	3280
Motion examination	...	..	378
B. S. R. estimates	..	..	50
Total	..		3,708

(b) Bacteriology.

1. Sputa examined microscopically	..	6411
2. Culture undertaken in the Laboratory	..	35000
3. Mantoux Test	..	502
4. Sputum sensitive test	..	391
Total	...	42304

(c) Bio-chemicals.

(a) Blood sugar	...	..	95
(b) G. T. T.	...	..	89
(c) Icteric Index	...	..	49
(d) Vanden Bergh	...	..	49
(e) Blood urea	...	..	69
(f) Fractional Test meal analysis	...	—	32
(g) Serum Cholesterol	...	..	22
			405
Grand Total	...		59417

to King Institute, Guindy:—

Sputum Culture	..	...	2469
Other	—	..	410
Total	—		2879

Sent to Madras Medical College, Madras:—

Pathological samples for Histopathology 53 Nos

Orthopaedic Department.

A proposal is under consideration to construct two separate for Orthopaedic cases alone viz., one for men and another for women consisting of 26 beds each. The total number of sanctioned beds for Orthopaedic cases will be then raised to 62.

Visiting Orthopaedic Surgeon:

Dr. T. K. Shanmugasundaram, M. S. F. R. C. S., (Eng.) F. R. C. S. (Edin.) M. C. H., (Ortho.) Orthopaedic Surgeon, Govt. Stanley Hospital, Madras.

	Men.	Women.	Children
No. of patients remaining on 31—12—63	10	7	12
Admissions	26	13	28
Discharges	16	10	28
Deaths	Nil	Nil	—
Remaining on 31—12—64	10	10	10

No. of Plasters made during the period from 1-1-64 to 31-12-64.

Posterior Spinal Fusion	..	...	5
Anterior Spinal Fusion	...	...	4
Britain's Arthroplasty hip	...	...	1
Somerwell's Operation	...	...	1
Excision of Tuberculous Ischial Tuberosity	...	...	1
Plaster shells	...	...	64
Plaster splices	...	...	3
Jackets	...	...	9
Other plasters	...	...	7
Aspirations	...	...	20
Total	...		103

There is a proposal under consideration for the construction of two wards of 26 beds each, one for men and one for women for treating Orthopaedic cases exclusively. If this is materialised, the total number of sanctioned beds for orthopaedic patients will be then raised to 62.

Out-Patient Department.

(Admission and Check-up Room)

The functions of the out-patient department are as detailed below:—

1. Examination of cases coming for check-up.
2. Examination of cases coming for assessing suitability for surgery.
3. Examination of workers of Government T. B. Sanatorium, Tambaram and their families. Residents nearby the Sanatorium.
4. Examination of emergency cases.
5. Examination of cases for admission in special and general wards.

During the year under review 9680 patients have attended the O. P. department of this Sanatorium. The average number of patients attended the O. P. department is 27.

Ophthalmic Department.

The ophthalmic department was opened in the Sanatorium during the beginning of 1953. Dr. Desikavannan, M. B. B. S., was doing part-time work in the department at its inception, till he was transferred.

Dr. L. Col. S. Annasamy, I. M. S., (Retd.) M. B. B. S. D. G. O. M. S. (London) F. R. C. S. (Edin.) was appointed as Honorary Consulting Ophthalmologist—vide G. O. Ms. No. 3927 P. H. dated 11-12-1957.

He visits the Sanatorium twice a week as routine and at other times as and when required.

THE FOLLOWING ARE THE STAFFS ATTACHED TO THIS DEPARTMENT:

Staff:—

Dr. P. K. Chandrasekaran: Honorary Assistant Medical Officer.
Sri A. Subramaniam. Staff Nurse.
Sri C. J. Mannappan. M. N. O.

Number of cases examined:—

Ward cases	..	..	78
Staff and relation	..	..	59
Public	..	..	6
			143

Classification of Cases:—

External diseases of the eye	..	109
Internal diseases of the eye	..	10
Errors of refractions	..	24
		143

Cases operated:—Nil.

Instruments and equipments fairly adequate.

Bronchoscopy Department.

1. Bronchoscopies are being done in the Department for the following:—

- (a) To visualise the presence of the Endo-bronchial T. B
- (b) Aspiration of Copious secretions.
- (c) Diagnostic therapy of hy-abscess.
- (d) Local installations of Chemotherapy and Antibiotic.
- (e) Repeat Bronchoscopy done to those who are awaiting resection and whose previous bronchoscopy report supports the presence of the Endo-bronchial T. B.
- (f) To visualise any growth of foreign body in the tracheo-bronchial tree.

Instrument are fairly adequate.

The total number of Bronchoscopy done during the year 1962 is 104.

Right side	..	..	2
Left side	..	..	1

INTUBATION FOR BRONCHO EXAMINATION.

All the cases were done without any pre- or post-operative complications.

Report of Blood Bank.

The blood bank of this Sanatorium started receiving donors from 9-5-1961.

Medical Officer —

Dr. S. Ramaraghavan, M. B. B. S.

Staff Nurses :—

1. Sri A. Subramaniam (specially trained).
2. Kum. V. S. Abraham.

Number of Donors.

(a) Paid	..	..	..	348
(b) Volunteered	..	..	...	1
Total	..			349

Total quantity of blood collected:— 122. 150 Litres.

Quantity of blood received from
Stanley hospital:— 5. 600 Litres.

TOTAL QUANTITY OF BLOOD ISSUED:

(a) To the Hospital for transfusion:—	58. 450 Litres.
(b) Sent to General Hospital:—	26. 250 "
(c) Sent to King Institute Guindy	40. 250 Lits.
Number of blood transfusion given:	167 (58. 450 Lits.)
Number of Plasma transfusion given:	26 (13. Lits.)

Transfusion reaction:

Nil.

Total amount realised in connection
with blood and plasma transfusion } Rs. 182. 50

Diversional Therapy Department.

Social Workers:—Two full time Social Workers are appointed as per G. O. Ms. No. 3250 Health dated, 19-10-1952, communicated in the Director of Medical Services, P. No. 211-G-2 dated 21-10-1962 and as per G. O. Ms. No. 658 Health, dated 25-2-1958 communicated in Director of Medical Services' P. No. 31-E3/58, dated 11-3-1958, respectively.

The pay and allowances of the Social Workers are met by the Madras Government as per G. O. Ms. No. 2914 dated, 4-7-1955.

The social work activities in this Sanatorium are furnished below:—

Amenities to the patients in this Sanatorium includes general Book and general periodicals for reading purposes.

There is also a library containing more than 2130 books. These were donated by various organisations like—

- (a) Red Cross Society.
- (b) Chingleput District Local Library Authority Committee.
- (c) Guild of Service.

As regards periodicals, the following journals are received as free gifts:—

- 1 Ananda vikatan.
- 2 Kumudam.
- 3 Kalkandu.
- 4 Swadesamitran.
- 5 Kalaimagal.

The following papers are also obtained free:

- 1 Swadesamitran (Tamil)
- 2 Malayala Rajyam (Malayalam).

Entertainments.

- (a) Cinema Show
- (b) Dramatic performance
- (c) Indoor Games
- (d) Some Pictures
- (e) Music through Radio

Dramatic Performance.

Social Service League of each College provides dramatic performance for patients.

Indoor Games.

Indoor games like Carrom, Chess Boards are provided by the Red Cross Society.

Pictures

Some pictures are provided by Some French Embassies and general philanthropic people.

Radio.

Radios are provided by Defence Service personnel and by the Government for patients.

Occupational therapy for the patients:

- (a) Knitting
- (b) Spinning
- (c) Dress-making
- (d) Embroidery.

These are done by the patients under the supervision of Social Workers in men and women wards.

Teaching and Educational Programme.

Children are given teaching and training by the teacher specially appointed by the Guild of Service (General).

Adult Education.

The Social Worker undertakes teaching profession to illiterate patients of the Sanatorium.

The Social Workers visit the patients daily and enquire often the welfare and difficulties of the patients. They help them in solving their problems by means of writing letters for them and encouraging them during their stay in the Sanatorium.

Hospitality Committee.

The members of the Hospitality Committee visit the patients of Sanatorium once a week and supply sweets and old magazines to patients.

Post-Graduate Education.

The Post graduates T. D. D. Course (both Government and University) are undergoing their one year course in this Institution.

Apart from Clinics in different wards, detailed lectures are given with Epidoscopic demonstration by the staff of the Sanatorium, covering the whole subject of Pulmonary Tuberculosis. On operation day, Post-graduates assist the Surgeons in operation. Training is given to administer APs. and PPs., and for assisting in major operative surgery.

Thoracic Surgical Training Centre.

This was sanctioned in G. O. Ms. No. 1113 Health, dated 27-4-54. The Centre was inaugurated by Sri A. Lakshmanaswamy Mudaliar, Vice-Chancellor, Madras University on 9-7-54. The Centre provides training in Thoracic Surgery (Tuberculosis) in the year.

Under-Graduate Education.

Clinics and Lectures on pulmonary Tuberculosis are also conducted for the Under-Graduates of the Madras Medical College and Stanley Medical College. The final year students of the Government College of Integrated Medicine get training.

No experimental surgery was performed during the year under review.

AMRIT NAGAR COLONY.

(a) *Origin.*—The Amrit Nagar Colony is intended for vocational training according to the capacity and education of each patient taking into account his socio economic conditions so that he does not get a relapse by straining and doing heavy manual work soon after his discharge.

The scheme for the establishment of Rehabilitation Centre of Tuberculosis patients on the model of the Papworth colony was conceived in 1947-49 to implement the recommendation of the Health Survey and the Development Committee, so that the control of Tuberculosis should form an important item in the programme on a long term basis. Steps were taken to collect funds for the acquisition of sites and construction of cottages and buildings. The Provincial Welfare Committee provided Rs. 75,000 towards the construction of buildings and Rs. 50,000 for the purchase of machinery etc., for opening a Printing Section.

The Rehabilitation Centre which is known as "AMRIT NAGAR COLONY", was opened on 3-3-52. The centre is situated on a plot of 15 acres of land about 6 furlongs south-east of Government Tuberculosis Sanatorium, Tambaram and just in front of the Tambaram Sanatorium Railway Station.

(b) *Admissions.*—Admissions to the Colony are made by the Superintendent, Government Tuberculosis Sanatorium, Tambaram who selects suitable persons from among the indigent patients who are sputum negative and fit for discharge from the Sanatorium.

(c) *Duration of training and discharge.*—Inmates who get sufficient training in printing and other sections are normally kept for a period of about 3 years and then discharged. Inmates who voluntarily request for discharge from the Colony at any time are discharged and sent away.

(d) *Accommodation.*—There is accommodation for 120 patients. Each room is furnished with iron cots and iron stools. The inmates make their own arrangements for their linen and other things.

(e) *Strength:*—

Number brought forward on 1-1-1964	...	...	102
Number of new admissions during the year	...	...	107
Number of discharges during the year	...	...	103
Number remaining on 31-12-1964	...	...	106

* As follows—

Composing	..	..	..	..	7
Machine	..	..	..	..	7
Binding	..	..	..	..	28
Rattan	..	..	..	..	26
Tailoring	..	..	..	..	37
Laboratory and Follow-up	—	..	..	..	1
Total	..	..	..	..	106

(f) The Post War Service Reconstruction Fund has offered a sum of Rs. 50,000 for the accommodation and Rehabilitation of 20 ex- Service Ex-Tuberculosis patients in the colony after thier discharge at the Government Tuberculosis Sanatorium, Tambaram. All these buildings were completed during the year and they were opened by Shri Bishauram Medhi, Governor of Madras on 15th September 1960.

(g) *Diet and wages:*—The inmates were provided with a square meal in the mid-day free of cost besides a daily wage of one rupee each to make thier own arrangement for the rest of thier diet and incidental expense. The mid-day meal were being prepared in the kitchen of the Government T. B. Sanatorium, Tambaram and transported to the colony for distribution till the end of November, 1960. In G. O Ms. No. 2849 Health dated 16th November, 1960, Government directed that the inmates of the Amrit Nagar Colony be provided with full day meals besides a sum of Rs. 10 p.m. as pocket money to each inmate in lieu of one mid-day meal and a wage Rs. 1 per day given before.

(h) *Buildings*:— There are 15 cottages each to accommodate three ex-patients. The Printing Section and the Recreation Club are located in independent buildings. The Recreation club building was donated by Major General S. L. Bhatia, former Director of Medical Services in memory of his wife Smt. Rajkishore Bhatia. He had made a further donation of Rs. 735 for the construction of platform adjacent to the Recreation Club Pavilion. The Government accepted with thanks the donation and the construction of the platform was completed.

Under the Second Five Year Plan Scheme, the Government have sanctioned a sum of Rs. 2.25 lakhs for providing additional accommodation for 55 patients and for the quarters for the Manager. Three additional worksheds have also been sanctioned for housing the Rattan, Book binding and Tailoring sections.

ACTIVITIES OF THE COLONY.

General:— In view of the nature of their health, the inmates are initially posted for duty only for 4 hours a day. After watching the improvement of their health during their periodical check-up, their working hours are gradually increased from 4 to 6 hours and then from 6 to 8 hours. The entire number is divided into four batches, the first batch working from 8-45 a.m. to 12-45 p.m., the second batch from 1-30 p.m. to 5-30 p.m., third batch from 8-45 a.m. to 11-45 a.m. and from 1-30 to 4-30 p.m. and the fourth batch from 8-45 to 12-45 noon and from 1-30 to 5-30 p.m.

(a) *Printing Section*:—There is a printing section in the colony with machinery worth about Rs.50,000. The cost of the machinery was donated by the Provincial Welfare Fund. The section is run by a team of technical staff deputed from the Government Press, Madras who impart training to the inmates in several branches of the printing works.

Since Tamil composing cases have been introduced in the Printing Section during the year under report, imparting training to the inmates in this respect also was commenced.

The Printing Section is undertaking only Government work which is supplied by the Government Press at Mint, Madras. Printing materials like paper, ink etc., are supplied by the Government Press and demand is raised for composing and printing according to the scale allowed by the Government Press for private printing presses. The demands raised for the work turned out for the last three years are as follows:—

1961-62.	6,055-64.
1962-63.	11 743-77.
1963-64.	13,338-85.

(b) *Binding Work*:— In pursuance of the sanction accorded in G.O Ms. No. 3412, Health, dated 28-11-56 the binding work of the case-sheets of the Sanatorium was undertaken by the Binding section of the colony. During the year under report 197 volumes of case-sheets have been bound. Binding of case-sheets of Hospitals and Library books of medical colleges have been ordered to be bound at the Binding section of the colony in G.O. Ms. No. 466, Health, dated 15-2-60.

(c) *Spinning*:— Spinning with Kisan Charkas is done by the inmates of the colony.

(d) *Rattan Work*:— To offer training to the inmates of the colony in Rattan work this section commenced to function in the second week in September, 1956.

The Government sanctioned the post of a Rattan Instructor on Rs. 120 per month and a recurring expenditure of Rs. 3,400 per annum for the purchase of raw materials paints, etc. Orders for office equipments like tapal boxes, waste paper baskets, file trays from other Government departments are executed. Fancy articles like tiffin basket, baby chairs, flower trays etc. are also made when special orders are received. Recaning of wooden furniture from Government institutions are also undertaken. The amounts pertaining to finished articles in the previous years are—

1961-62.	854-49
1962-63.	3987-04
1963-64.	4182-30

(e) *Other Works*:— Besides the works mentioned, a few of the inmates who are educated are posted for work in the Laboratory, Dispensary and Blood Bank of the Sanatorium.

Tailoring Section:—The Tailoring section started functioning from 18-3-63 in pursuance of G. O. Ms. No. 613 dated 8-3-61 and G. O. Ms. No. 322 P. W. D. dated 27-8-62 under a Master-cutter and Junior Tailoring Instructor with 20 sewing machines with reference to order issued in G. O. No. 1843 P. W. D. dated 16-7-63. The garments of L. G. S. of the City Medical Institutions alone have to be stitched and supplied. During the year under report 10,000 garments of the L. G. S. of various Medical Institutions in the City have been stitched and supplied.

(f) *Recreation*:—The Recreation pavilion donated by Major General S. L. Bhatia is used by the inmates for playing indoor games such as carrom, chess, draughts, cards etc. A Badminton and Tennis court is also provided for out-door games. A radio set is also available for the use of the inmates. Tournaments are conducted and prizes distributed to the winners and runners-up by collecting donations.

There is also a Library for the inmates to afford recreation by way of reading with select books in Tamil. One copy in each of the dailies of "The Hindu" and "Swadesamitran" and weekly journals of "Kalki" and "Anandavikatan" is received free of cost for the benefit of the inmates. The facilities provided are being fully taken advantage of by the inmates. The Madras Branch of the Indian Red Cross Society have presented sports materials like Ping-pong bats and balls and also a gramophone with needles and records. The Radio with amplifier and loudspeaker have been donated by the Women sub-committee of the Provincial Welfare Fund.

Advisory Committee, Government Tuberculosis Sanatorium.

The Advisory committee of the Sanatorium met 4 times during the year and discussed matters concerning to the welfare of the patients and other developments.

Local Authority Committee, Government Tuberculosis Sanatorium.

The Local Authority Committee of the Sanatorium met 4 times during the year and discussed matters concerning to the control of building construction in the sanatorium area.

Visitors' Remarks to Government Tuberculosis Sanatorium Tambram.

Remarks of Sri R. Thirumalai, Addl. Secretary (I.L.C.) Government of Madras.

"I went round the several wards in the Sanatorium. I was impressed by the tidiness of design of upkeep and the attention paid to the patients. The University Students ward and the E. S. I. wards in particular were models. I am thankful to Dr. K. V. Krishnaswami, and the staff for the courtesy and kindness they showed me in going round the institution with me and explaining to me its features".

(Sd.) R. Thirumalai.
12-2-64.

Remarks of Sri S. Krishnaswamy, I. A. S. Collector of Chingleput.

"I went rounds the ward along with the members of the Advisory Committee. Dr. K. V. Krishnaswamy was kind enough to show us round. The wards are kept clean. The Operation theatre is being fixed up with air-conditioning. It is better it is made fit as early as possible so that for operation cases patients need not be taken to General Hospital."

Madras. The Executive Engineer has been requested to explore the possibility of getting water from deep wells so that during the coming summer there will not be difficulty".

(Sd.) S Krishnaswamy, I. A. S.

28-2-64.

Remarks of Dr A. L. Mudaliar, Vice Chancellor University of Madras.

"The Tuberculosis Sanatorium Tambaram, has gained an all India reputation and I am glad to see that its good work is being recognised and that those who are affected by this disease come from all parts of India. The inclusion in this Sanatorium of two special wards for students, one for men students and one for women students, has been a significant addition to requirements of this centre. Under the efficient management of the Superintendent Dr K. V. Krishnaswamy and his staff, I am sure this will be one of the leading hospitals for diagnosis and treatment."

(Sd.) Dr A. L. Mudaliar.

6-11-64.

LECTORS:

Dr. P. Narayanamenon, M. B. B. S., T. D. D., Stanley Medical College, Madras.

Dr. V. Bakthavathsalu, M. S., from 1-7-64. Madras Medical college Madras.

Dr. S. Swayambunathan, Madras Medical College from 21-1-64.

Dr. R. Soundarajan, M. B. B. S. from 21-1-64 to 30-6-64 Madras Medical collage.

CIVIL ASSISTANT SURGEONS:

Dr. (Kum.) Indira Sambasivam, M. B. B. S., D. G. O.

Dr. C. T. Samuel, M. B. B. S., T. D. D.

Dr. M. A. Muquaddam, B. Sc., M. B. B. S.

Dr. M. A. Rasheed. M. B. B. S.

Dr. (Kum.) N. Sampath, M. B. B. S.

Dr. R. Natarajan. G. C. I. M.

Dr. A. K. Nambiar, M. B. B. S., T. D. D., upto 31-5-64.

Dr. R. Soundararajan, M. B. B. S., up to 20-1-64.

Dr. D. S. Shanmugasundaram, M. B. B. S.

Dr. K. Alavandar, B. Sc., M. B. B. S.

Dr. P. Dhatarajan, M. B. B. S., from 23-1-64.

Dr. (Kum.) T. Jayalakshmi. M. B. B. S., from 31-1-64.

Dr. C. Murugan, M. B. B. S., from 5-10-64.

Dr. K. Nelliappan, M. B. B. S., from 16-10-64.

Honorary Medical Officers.

HONORARY PHYSICIAN:

Vacant.

HONORARY CONSULTING OPHTHALMIC SURGEON:

Dr. Lt. Col. S. Annaswamy, M. B. B. S., F. R. C. S. (Edin.)
D. O. M. S. (London), I. M. S. (Retd.)

Honorary Assistant Medical Officer.

Dr. P. K. Chandrasekaran, M. B. B. S., Bronchologist.

Remarks of H. S. Ahluwala.

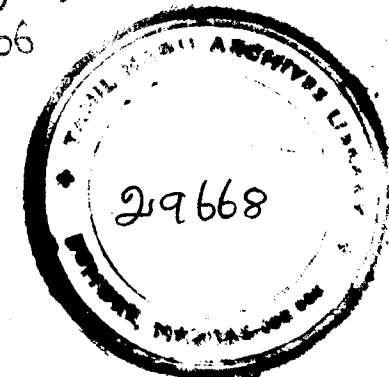
"It was a matter of very great pleasure to me to be shown round Amrit Nagar Aftercare and Rehabilitation Centre. The visit was very instructive for me. The institution is efficiently seen and all its inmates well looked after. Then Rehabilitation will be a simple affair after they have learnt the various trades taught here".

H. S. Ahluwala.

9-9-64.

(Sd.) K. V. KRISHNASWAMY,
Superintendent,
Govt. Tuberculosis Sanatorium,
Tambaram.
 14-2-1966.

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PRINTED AT
AMRIT NAGAR COLONY PRESS,
TAMBARAM.
