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THE NURSING PROFESSION IN KERALA A MANPOWER STUDY

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FOREWORD

Man Power Planning plays a significant role both in the public and private sectors in the context of the Five Year Plans. Medical and Public Health activities recorded steady progress in the past few years as a result of planned efforts. Health is considered as a basic factor of all human activities. Any service which helps to reduce human sufferings and pains is indeed the noblest of all services. Based on this unquestionable truth, it can be seen that the Nursing profession is an invaluable service and one of the most vital links in the Health Care system.

The present report on 'The Nursing Profession in Kerala and the supply of and demand for Nurses in the state' attempts to bring about salient features of the Nursing Profession and to estimate the future requirements, availability, deficit etc. of Nursing personnel in the state upto the year 1981.

This report is prepared by Smt.Lillykutty.K.Varghese,
Research Officer, under the guidance of Shri.R.Gopalakrishnan
Nair, Deputy Director, Man power Unit. It is hoped this
booklet will be found useful for planning purposes.

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N. GOPALAKRISHNAN NAIR
DIRECTOR

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Introduction

With the advancement in the various branches of science, Health Services have expanded and the horizon of Miring has also widened. Health is considered as a basic factor of all human activities. Any service which helps to reduce the number of all human sufferings and pains is indeed the roblest of all factors. Based on this unquestionable truth, it can be seen that the Nursing profession is an invaluable service and one of the most vital links in the Health care system. The Nurse is busy in the general ward, in the labour room, in the operation theatre, in the paediatric wards, in the intensive care unit, specality wards, in the rural areas etc. rendering services to the world at large from "Womb till tombly. It was the lady with the lamp" - Florence Nightingale - with her sincere efforts and utmost patience uplifted the Nursing Profession to its present day status.

Nursing can be traced from the earliest primitive days, through ancient temple and Roman Matron, through Monastery, lepor house and battle field to the city hospitals and modern institutions growing stronger and wider in its conception until today, where there is no part of the civilised world without some form of Nursing service. It is only after the second decade of the 19th century that the new Era in Nursing began. In 1860, the Florence Nightingale Nurses' Home and Training School for Nurses were opened attached to the St. Thomas Hospital in London. The School has been a model for many hospitals not only in England but all over the world.

Nursing in Ancient India

Nursing in ancient India was remarkably advanced.

It was professionally advanced, universally recognised and respected. Hen did the nursing and only in special cases women were appointed. In ancient India nurse was trained in all fields of medical sciences. Miss A. Wilkinson in her pioneering work to brief History of India and Pakisthan' says that there are more datails of Hursing in the old Indian records than those is any other country in the world.

The modern nursing began in India with the establishment of British rule by the East India Company. The trained mirses Association of India (TNAI) which was formed in 1903 and

the Nurses 'Auxiliary of the Christian Medical Association of India, formed in 1930, have done a great deal to raise the stanard of Nursing. Another International Organisation for aiding the sick and suffering is the Red Cross Society. It has an extensive influence on Nursing and to-day functions under the following heads - public Health Nursing especially in Rural hardly nursing relief in time of disaster, first reserve in the knew and the Navy and the teaching of hygiene and home nursing.

Tevelorizant of Mursing Education in Kerala.

The steady growth and advancement of the modern healing science made it necessary to find out people with more understanding knowledge and skill in the art. In 1864, when his Highness Ayilyam Thirunal Maharaja ruled in Travancore 'New Civil Dispensary' which later became 'the General Hospital' Trivandrum came into existence. At that time care of the Sick people was mainly carried out by untrained people both men and women and very little work was assigned to them. Dr. Punnen, who was the first Superintendent of the General Hospital, Trivandrum took great interest in the training of Nurses. A two year programme in Nursing and Midwifery was started in 1906 in the General Hospital, Trivandrum under the leadership of Dr. Punnen Lukose.

The need for proper education was not recognised. The working and living conditions of the Nurses were not so attractive as to-day. Social restrictions and taboos have further hampered the progress of Nursing. In other states of India the conditions of working and living were better and many educated girls from Kerala turned to those centres. But some of the Nurses trained in other states also joined the state service.

The London Mission Hospital, Neyyoor was one of the Jonecring Training Centres. The Medical College Hospital, Telloore with its Medical and Nurses Training Schools influenced ireatly the concept of Nursing in South India. In Katayam as far vact as 1917 Religious sisters appeared in the field of Jursing. Dr. D. J. Jahib, was the Superintendent is

cf the district Hospital, Kottayam. The Superintendent lelt the need for better Nurses with some sort of training.

**Coordinals, 4 numeristers were permitted to were in Hospitals.

They were given 12 years of training by the decter himself.

**Coordinals and Coordination, all the four were awarded Coottaganger.

From 1928, there existed a 3 year training of Nurses in the Cochin state. In 1943, a revised Certificate Course in General Nursing and one year Midwifery was started in the school of Nursing attached to the General Hospital, Trivandrum. 33 Matriculates were admitted to the School of Nursing. two years after the starting of the Medical College, Trivandrum, the school of Nursing was shifted to the Medical College Campus. A post Certificate Course of 10 months duration for departmental candidates below 45 years was started in the school of Nursing attached to the Medical College, Trivendrum. But this was discontinued on completion of the course of the first batch of 10 candidates because higher qualification was no more considered In 1960, a Diploma Course in Nursing was started and recognised by the University of Kerala. B.Sc. Degree Course in Nursing was also started functioning in 1963 in the College of Nursing, Trivandrum. In the year 1972, four year Basic B.Sc. Degree Programme was started functioning in the College of Nursing, Trivandrum.

Development of Community Nursing in Kerala.

Community Nursing includes all activities relating to the Nursing Component of the total Community Health Programme carried out in various situations such as the home, the school, the industry, the health centre and so on. The Nurses and the Auxiliary Personnel engaged in these activities consist of Public Health Nurses, Health Visitors, Midwives and Auxiliary Nurse Midwives, all working within the frame work of the health teaming led by the medical Officer.

Community Nursing which is the present day nomenclature for Public Health Nursing, was in the correct sense, started in our state early in the 1950's with the establishment of the Community Development Programme on national level. Prior to this, there was no organised system for catering to the health needs of the people of the community, except in case of the Sick who were cared for in the hospitals. Delivery was considered as something unclean and untouchable. Therefore to attend to women in labour the persons available were the native Midwives. Hence the need for having qualified Midwives to attend to the mothers and new borns was widely felt.

In Kerala, Public Health Nurses hold various levels of position such as supervisors in P.H. Units, P.H. Nurses in Hospitals, for special programme, P.H. Nursing Tutors in Schools of Nursing, P.H. Nursing Instructors in Health and Family Planning Training Centres. Senior Public Health Nurses with further training

in administration and supervision are holding positions as
District public Health Nurses. It is worth mentioning here that
Kerala is the first state in India to have supervisory Public
Health Nurses posted at the district level. Senior Nursing Staff
were deputed abroad such as America, U.K., Japan, Canada, South
America etc. to secure higher qualifications of they were appointed to the higher posts. Accordingly an Assistant Director of
Nursing service had been appointed in the Directorate of Health
Services in June 1975 and administration in almost all matters
related to the Nursing personnel in the state was entrusted with
the Assistant Director.

supply of and demand for Nurses in Kerala

Medical and Public Health activities recorded steady progress in the past few years as a result of planned efforts. number of medical institutions and beds have increased steadily. The per capita expenditure on Health Services for 1973-74 and 1974-75 are Rs.9.87 and Rs.11.23 respectively as against the all India figure Rs. 7.90 in 1973-74 and Rs. 8.81 in 1974-75. of the increase in the per capita expenditure, physical achievements in several aspects such as availability of Nursing personnel, Pharmacists etc. have yet to be achieved more. The increase in population and limited financial resources may be the main hindrance for the short fall in the achievements. During the years 1973-74 and 1974-75, there were 874 and 881 medical institutions respectively with a total bed strength of 24106 in 1973-74 and 25312 in 1974-75. The bed population ratio works out to 106 per lakh of population in 1973-74 and 105 in 1974-75. It can be seen that the target for bed strength has been exceeded.

Stock and supply of Nursing Personnel

The register maintained by the Registrar of Kerala Government Nurses and Midwives Council is one of the source of information regarding the stock of Nursing Staff in the state. The table appended below gives the number of registered Nursing Personnel in the state registered through the Kerala Government Nurses and Midwives Council (K.G.N.M.C.).

_ =01				tion and Much	' Ors
Category	1969	years 1970	1974 11197	2 1973 × 1974	1975 1976
Norses Micharles		2 3157 7 2712	3542 410 3074 357 - Nil -	97 4616 5775 2 4397 5163	6183 6933 5711 6317 1035 1723

Source: Register of Kerala Government Murses & Midwives Council;

But we cannot depend solely on this register since cancellations due to deaths, transfers, foreign assignments etc. have and been given effect to in the register.

considering the recorneristion of the Task Force in regard to the implementation of the Vth Rive Year Plan protosals, the will be need to expand the facilities for training of pursons.

Nurses, Dentists and other Para-medical stail. On the hadis of the requirements indicated, the existing number under heat categories has to be increased in the state of Kerala. The increase has aspectably to be large with respect to Nursing Personnel and Pharmanists.

An estimate made by the Central Task Force indicates that at the end of the Vth Pive Year Plan even assuming that the training programmes are implemented fully, there will be a definit of 10,000 Nurses in the country as a whole. There would be a more than proportionate short-fall in Kerala as our stock is initially low. It is in this perspective that the task force has from I the proposals for the Vth Plan. Though we have achieved the warget of bed for 1,000 perulation by 1953-70 there is some implance in the requirements of Nurses which needs correction during the Vth Plan.

The requirement of Nurses may be assessed on the basis of Nurse population ratio which depends on the level of medical facilities. The Health Survey and Planning Committee (Nudalian Committee in 1961) has recommended the following norms.

porter - poster for 3000 to 3500 of the

Dental Surgeons - -dcNarse & Midwife - One for 2000 of population by 1981

Auxilliany Nurse Midwife - One for 5600 of population by

Ø

One for every three Doctors Pharmacist One for every 1000 of population Bed - strength One for every 50 lakks population Medical colleges The supply of the Nursing Staff is catered at prosent by the 9 government and 21 Private Mursing schools and one college of Muretos (for imparting training courses to Cerural Hirses). mut in 1974-75, there were 10 ocyamment and 17 Dayane inspitate givent training courses to Nurses. (vide list of lands of bride pruviling derrices for General Invoes in 1375-77 4. Gevernment Listitutions college of Mursing, Trace and The 1. school of Nursille Triyend um 2. --- C O --oull on 3. -do-Allerrey 4. Kotteyan ~0 O ~ Errakulam -ab-7 Trichu -- 3 C -- 1 Palsiat В. ~ () ~ Kozlásode ∸∂⊋---9., Cacitione ,-dc-10. private Institutions school of Hursing, Holy Cross Hospital, Kottiytan 1. School of Wurning, Benzegar Hospital, Quillon 2. g.N.T. Medical Mission Hospital. -40-3. -do-Thiruvalla Medical Mission 4 -00-Hospital, Thiruvalla. Alleppev geared. Heart Hospital, Sherthalai. .do. -do-5. pushpagiri Hospital, Thiruvalla. dol -do-6. ct. Thomas Hospital. -do-7. Franganacherry. Kottaven سرو کی ritas Hospital, Kottayam. -do-8. -do-M.M. Hospital, Manganam. -do--do-9. THIM, Hospital, Bharananganan. -200 10. **۔**ر∂ن-7. D.M. Pospital, Kangazha. -00-11. -dowat. Metr'r Hosuital, Manarcad. 12. -do-This but see. -do-M.M. Mission Hospital, Kolencherry, 13. -do-Freskul en, Hipakulan, LOWING PERFECT Brackulan. ro Q Om 14. -do-

15.	school of Nursing,	Lisie Hospital, Ernakulam.	Ernakula.
16.	-do-	Little Flower Hospital, Ankamaly.	-do-
17.	-do-	st. Joseph's Hospital, Kothamangalam.	-do- "
18.	-do-	Samaritan Hospital, Kizhakambalam (via), Alwaye.	_do
19.	-do-	Jubilee Mission Hospital, Trichur.	Trichur
20.	-do-	Nirmala Hospital, Calicut.	Kozhikode
21.	-do-	Malique Deenar Hospital, Kasargode.	Cannanore

Out of this, 3 schools, Sacred Heart Hospital, Sherthalail St. Mary's Hospital, Manarcaud and St. Joseph's Hospital, Kothamangalam have started functioning only during the year 1975-76. The training schools trained on an average 525 Nurses every year, 250 in the Government sector and 275 in the private sector. The minimum qualifications for the students admitted for general Nursing are S.S.L.C. for Certificate courses and pre-degree with science as special subjects for Basic B.Sc. degree course. In almost all schools, hostel accommodation is given to the students admitted for the training courses. In the Government schools, students are given stipends. But in some private schools, students give fees. In the college of Nursing students are admitted as in the case of other University Education Courses. In this connection it may be pointed out that no students were admitted inthe Government Training Schools from the year 1972 to 1975 due to lack of accommodation facilities. During the year 1976, 20 male candidates have been also selected for training in General Nursing in the public sector. Moreover 68 candidates from the scheduled caste/tribes have been admitted in the college of Nursing, Trivandrum. One School of Nursing is proposed to be started in Idukki district also.

Categories	of	Nursing	Staff	in	position	in	the	Government	Allopa-

	CHIE THE CLEAR DIGHT IN VELCTOR	scale of pay
1.	Assistant Director of Nursing Service	600-1200
2	Nursing superintendent (Gazetted) -	495-835
3.	-do- (Non-gazetted) -	410-715
4.	Head Murses -	330-575
5.	Nursing Tutors	330-575
6.	Staff Nurse -	285-550

	· · · · · · · · · · · · · · · · · · ·	•
7.	District Public Health Nurses -	410–715
8.	Public Health Nursing Tutors -	3K8-F86
9.	Public Health Nurses -	330-57 5
10.	Health Visitors	330-515
11.	Auxilliary Nurse Midwives -	25 5–4 55
mbo	strength of Mursing Staff as on 1-4-1975	is given below
Tine_	coverment (denor-	J Hanses)
-	The second secon	
Supe	rintendent of Netsing Service -	nt nirector of Mursing
(The	The las since been upgraded as Assista	in firecoot of warping
****	irk comeriated and (Gaze sol)	
Mr.ca	-du- (Non-gaugesel) -	43
Maaaa	sing Tutors	- 33
	Nurses	501
eta.	ff Murse trict Fublic Health Murses -	²⁵⁰⁶
٠. ت	lic Health Nurses	136
	Lic Health Nursing Tutors	- (.9 . 10. N.)
•	Total	3242
		1936
	Private Total	
	Grand Total	5178
•		
: .		of Mandada and Company
Eşt:	imation of Requirements and Availability	or deneral Narses
4	The actual intake capacity in our st	ate, both Government
hre	ner year accounts to 52	5, 250 in Government
_	the private firstitutions. Alter	attowing to lo magnage
	the propable out-tu	TH MOLVE ON P. PO. S. C. S.
	$_{472}$ s $_{475}$ approximately. B	ur one accuar constitution
	the wear 1974-75 was 464 and 200 In	1212-10. For sursediff
	on actimated out-turn of 4/5 can	. be accepted. But and a second
	allow committee has recommended a norm	of I Marse \ 2,000 \
papi	lation by 1971 and 1 Nurse / 2,000 popu	1actor by 1901.
	and a stad population of Kerala (Mid-yea	r) from 1971-1981
The	projected populations are attactions	
	213.47 lakhs (19	71 census figures)
· .	047 26 11	estimated)
, -	000 75 #	
*.	1717 507 70 H	
	1974: - 221.59	

		•				5 \
1975	_	232.45 I	akhs			a)
1976	, ·	237.37	Ħ	•	A_{μ}	
1977	e e e e e e e e e e e e e e e e e e e	241.66	11	. 11	t	
1978		245.84	. Tr	. 61		
1 979	• 🕳	249.90	11	1	7	
1980	_	253,84	Ħ		1	
· •		257.67	11		•	
1987	_					. '

Table - 2

The Total Requirement may be estimated in the following phased

year	Population (in lakhs)	Norm	Requirement
1971	213.47 (actual)	1:5000	4270
(Vth Plan starti	ing) 227-39 (estimated)	1:4100	5546
(Vth Plan ends)	249.90 (do)	1:2600	9611
1981	25767 (do)	1:2000	12884

rable - 3 Availability can be worked out as follows

Year	stock at the beginning	Actual/anticip ted out-turn	a- Total	stock after allowing 2 % depletion
1974 (321	2 +, 5178 (actual)	464	5642	5530
103	5530 (do)	308	5838	5722
1975	5722 (estimate	a) 475	6197	6073
1976	6075 (do)	475	6548	6417
1977	6417 (do)	475	6892	675\$
4978	6756 (do)	475	7231	7087
4979	7087 (do)	475 •	7562	7411
1980 1981	7411 (do)	475	7886	7727

From the above Tables (2 + 3), availability and requirements during the years, 1974, 1979 and 1981 may be rearranged as shown below

Table - 4

Year	Requirement	Availabili ty	Deficit or sportage
1974	5546	5570	16
(973 (931	9611 12384	7381 772 7	2524 5157

The table above reveals that if the norms of the Mudaliar Committee are accepted the total requirement of General Nurses at the end of the Fifth Plan will be much higher than the availability. It is well known that, every year a large number of Nursing Personnel is migrating to other states in India as well as foreign countries to take assignments and the immigrants will always be less than the migrants. Hence the actual deficit will be more than the figure shown in Table - 4.

At this juncture, it may be pointed out that the additional requirement of General Nurses according to the scheme-wise details of development programmes to be implemented at the end of the Vth plan has been estimated as 1,000 including replacement needs due to retirement. But the figure relating to requirements in the private sector is not available. But in 1975 and 1976, more schools of Nursing have been started functioning in the private institutions and more students have been admitted. In addition to these, admissions have been increased in the Government sector also. If the number of admissions continues like this, the gap between the requirement and the availability will be bridged to a certain extent. However acute shortage will be experienced at the end of the Fifth Plan.

Auxi/liary Nurse Midwives and Midwives

As part of the National Community Development programmes, public Health Units were established during the first half of 1950's in order to cater to the health needs of the rural population. Maternal and child health (M.C.H.) programme was given prime importance. In order to prepare a suitable training field in M.C.H. a project was started by the state Government with the

assistance of W.H.U. and UNICET. All the Midwiros posted in the various centres were given orientation in domiciliary midwifery in order to equip them better for their work in the M.C.H. service in the community. Then the need of qualified Nursing Personnel to supervise the midwives/Auxi/liary Nurse Midwives was oridently felt. But the number of Public Health Nurses in the state was eta amail to be accommodated for the purpose. Thus in line with We mational Plan, the State Health authorities decided to start, a Health visitor's training school in order to meet the immediate. weeks of the time. It was started in 1956 to impart training to Miswito; to be chalified as Health visitors. The course was for 8 months and 37 senior Midwives were recruited for the same. It three batches 96 Health Visitors were trained.

In the mean while, the need of better trained Midwives for M.C.H. work in the community was widely recognised all over the Mountain Therefore the Indian Nursing Council took up the respon inility of revising the curriculam for Midwives. It was then derided to replace the Midwifery Course by A.N.M. Course. There are at present 10 Institutions in the state both

tovernment and Private to impart training to Auxilliary Nurse wire the names of these Institutions are given below. District

Government

Tovernment Hospital, Peroorkada, Trivandrum. tomen & Children Hospital, Thycaud, Trivandrum.

parernment Hospital, Palghat. Foreingent Hospital, Calicut.

Company of the second

Private

grae Ramakrishna Mission Hispital, Sasthamangalam. grivandrum _do-: cuilon'

Trivandrica

-do-Palghat

Kozhikode

-do-

7. S.S.N. Medical Mission Hospital, Varkala. T.M.S. Boy's Brigade Hospital, Kundara. Alleppey ~do-

Mission Hospital, Kattanam. N.3.3. Medical Mission Hospital, Pandalam.

6. S. Medical Mission Hospital, Sherthalai. of these, in the Government Hospital at Peroorkada,

Hardian students are admitted and even S.S.L.C. Failed Candidates from the scheduled caste/tribes are also admitted.

Minimum qualification for the training course is S.S.L.C. for animary students. As per the register of K.G.N.M. Council,

the number of 1. N. Ms. registered during the years are given below.

 Year	 	No. of :	registored Midwives	
 1975	 ,	1085	5711	
1976	4 ÷	1728	6817	

The registration of A.N.Ms. has been started only from the year 1975 orwards.

Stock

The stock of A.N.Ms. and Midwires during the year 1974, in the public as well as private sector is 2425, 1622 in Government and 803 in private Institutions. During the year 1974-75, there were 3 Government and 6 private A.N.M. Training Schools in the state with an intake capacity of 10 each in Government and 15 each in private training centres. The total intake capacity in both the sectors accounts to 10 x 3 + 15 x 6 = 30 + 90 = 120/ye Allowing 10 % wastage on the intake capacity, the probable outturn works out to 120x90 = 108 ie. 110/year approximately. But 100 the actual out-turn during 1974 and 1975 are 97 and 105 respectively. For the estimation of requirements for the subsequent years 110 may be accepted.

Mudaliar Committee has recommended a norm of 1:5000 population by 1976. As per this norm 4747 (nearly 4750) A.N.Ms. will be required by 1976.

The requirement of Auxi/liary Nurse Midwives can be estimated as follows

Table - 5

year	population in lakhs	Norm	Requirement
	237.37	1:5000	4747
1976 19 7 9	249.90	1:5000	4998
1981	257:.67	1:50000	5153

Table - 6

The availability of Auxilliary Nurse Midwives can be worked out

year	stock	Actual/anticipated Stock after all out-turn Total owing 2 % depl
1974 1975 1976 1977 1978 1979 1980 1981	2425 2472 2525 2583 2639 2694 2748 2801	97 (actual) 2522 2472 105 (") 2577 2525 110 (anticipated)2635 2583 110 (") 2693 2639 110 (") 2749 2694 110 (") 2804 2748 110 (") 2858 2801 110 (") 2911 2953

mable - 7

Requirement and availability are re-arranged as follows

Year	Requirement	Availability	Deficit
1976	4747	2583	2164
1979	4998	2748	2250
1981	5153	2853	2300

As in the case of General Nurses, A.N.Ms. and Midwives also are in short supply.

A.N.Ms./Midwives also migrate to other states and foreign countries. Hence the callability of A.N.Ms. will be less than the figure as shown in Table - 7. Hence the gap between the requirement and availability will be more wide.

In this connection, it may be stated that the additional requirement of this category based on the programme already drawn up to be implemented by the end of the Vth year plan is estimated to be 125. As in the case of general Nurses the figure relating to requirements in private sector of this category also is not available.

Conclusion

In order to attract more people to the Nursing profession, the Mudaliar Committee has recommended that attractive stipends and free boarding and lodging may be provided to the students admitted for training courses. Theis also necessary to discourage migration of Nurses from Kerela to other states and countries by making the service conditions in the state more attractive. Receively, certain improvements have been made in the service condiscorps of Nursing personnel by the State Governments and the It is praise worthy to state that Smt. Amina Comment of India. Mustaffa, the District Public Health Nurse, Alleppey was the recipient of the National Award for Nursing in 1975 and she had been given a cash award of Rs. 1000/- by the State Government also. Nurses' week is also celebrated in the state in a befitting manner from 6th to 12th May every year connected with the Birth In addition to these the Anniversary of Florence Nightingale. Government of Kerala have constituted The Kerala Government Nurses! Welfare Fund!

