

NLEP Trainings: Need Assessment and Implementation Guide





Central Leprosy Division, **NewDelhi Directorate General of Health Services Ministry of Health and Family Welfare**

Central Leprosy Teaching & Research Institute, Chengalpattu, TN **Directorate General of Health Services Ministry of Health and Family Welfare** Government of India Government of India

NLEP Trainings: Need Assessment and Implementation Guide



Central Leprosy Division,
NewDelhiCentral Leprosy Teaching & Research
Institute, Chengalpattu, TNDirectorate General of Health Services
Ministry of Health and Family Welfare
Government of IndiaDirectorate General of Health Services
Ministry of Health and Family Welfare
Government of India

डॉ. नीरज ढींगरा Dr. Neeraj Dhingra **उप महानिदेशक** (कुष्ठ) Deputy Director General (Leprosy)





स्वास्थय सेवा महानिदेशालय (स्वास्थय एवं परिवार कल्याण मंत्रालय) भारत सरकार निर्माण भवन नई दिल्ली-110108 DIRECTORATE GENERAL OF HEALTH SERVICES (Ministry of Health & Family welfare Government of India Nirman Bhawan, New Delhi- 110108 Email: dhingradr@hotmail.com दिनांक/Dated

FOREWORD

It gives me immense pleasure to publish this document on "NLEP Trainings: Need assessment and Implementation Guide" developed by the committee assigned by Central Leprosy Division.

NLEP was implemented under the vertical system up to 2005 and was integrated with the general health care system. Subsequent to its integration, there was shift in the strategies towards elimination of leprosy. This caused stagnation of the programme implementation due to lack of trained manpower. To address this gap between policies and implementation of NLEP it was felt that the training of the personnel is most essential to fulfill the emerging challenges for general health care staff.

Now, more than a decade after integration, the gap in Case Detection and Disability Prevention & Medical Rehabilitation activities can be viewed by recent trend of rising Grade II disabilities among newly diagnosed leprosy cases. Therefore, it is essential to guide the personnel through a systematic training conducted at various levels to improve implementation of the programme.

I am sure this document prepared by Central Leprosy Teaching and Research Institute, Chengalpattu (TN): an Apex Leprosy institute of Government of India; along with Regional Leprosy Training and Research Institutes (Raipur, Aska&Gouripur), Schieffelin Institute of Health Research & Leprosy Centre, Karigiri (TN) and The Leprosy Mission, Naini (UP) will stand as lighthouse to guide the stakeholders for conducting qualitative training which will facilitate the goal of *Leprosy Free India*.



Dr. VINEET K. CHADHA DIRECTOR





Central Leprosy Teaching & Research Institute Ministry of Health and Family Welfare **Government of India** Chengalpattu - 603 001. 2044-27426275 Fax: 044-27426064 E-mail: dircltri@dataone.in

Dated: 05.05.2020

PREFACE

Even though, leprosy was declared in the year 2005 to be eliminated at the national level based on the programmatic criteria of prevalence below 1 per 10,000 population, a large number of districts in India continue to have high burden in terms of prevalence of the disease per se and occurrence of Grade II Disability. Besides, there are un-detected cases. Various interventions as envisaged under the National Leprosy Eradication Programme strategy are delivered through General Health Services. Efficient implementation of these interventions in a cost effective manner necessitates various levels of health functionaries to acquire specific skills. Therefore, it is incumbent upon the programme managers at the National, State and District levels to ensure the availability of adequately skilled manpower at various levels of the health care delivery system -Primary, Secondary & Tertiary.

The present document has been developed at the behest of Central Leprosy Division as a guide to program managers and trainers in training institutes as well as at state and district levels for adequate planning and implementation of training activities efficiently. This manual advocates a step by step approach in assessing the current situation as far trained manpower resource is concerned, gap and need assessment, mapping of the available resources in terms of infrastructure like training institutes and the trainers. It also prescribes the standard course curriculum for training of different categories of health care workers as also the skill requirement of the training faculty. There is a dedicated chapter aimed at guiding the programme managers in effective planning for training and implementation of those plans. A systematic approach for evaluation of the training activities has also been incorporated. This document is therefore expected to result in significant upstaging of the necessary skills of our health workforce and thus, more effective implementation of NLEP activities ultimately leading to the disease elimination in all communities.

I appreciate with gratitude the significant efforts of the experts who contributed to the development of this guide.

(Dr. Vineet K. Chadha)

CONTENTS

Titles	Page No.
List of tables and matrices	
Abbreviations	
Executive summary	
Chapter 1. Introduction and situation analysis	
Chapter 2. NLEP Trainings "The Gap Analysis"	
Chapter 3. Resource mapping	
Chapter 4. Training design	
Chapter 5. Curricula for training of staff in NLEP	
Chapter 6. Training evaluation	
Chapter 7. Implementation plan	
Chapter 8: References	
Annexure: 1 Guidelines for Role play	
Annexure: 2 Checklist for observers of the patient education session	
List of Contributors	

TABLES AND MATRICES

Table No.	Title	Page No.
1.	Duration of training of each category of staff	23
2	Place –trainer-trainee matrix	24
3	Institutes / centres engaged in training in anti-leprosy activities	24
4	Available training (teaching-learning) methods	27
5	Training matrix for medical colleges	30
5.1	Curriculum for Training of State Leprosy Officers	33
5.2	Curriculum for Training of District Leprosy Officers	39
5.3	Curriculum for training of medical officers	45
5.4	Curriculum of training programme for surgeons	49
5.5	Curriculum for training of physiotherapist	53
5.6	Curriculum for training of laboratory technicians	57
5.7	Curriculum for training of health supervisors (NMS/HE/HI/NMA/HA etc.)	60
5.8	Curriculum for training of health worker at PHC/HSC (ANM/MPW/Jr.HA etc.)	65
5.9	Curriculum for training of ASHA	71

ABBREVIATIONS

ANCDR	Annual New Case Detection Rate
ANM	Auxiliary Nurse Midwife
ASHA	Accredited Social Health Activist
AWW	Anganwadi Worker
BLCC	Block Leprosy Elimination Campaign
BLP	Bombay Leprosy Project
СНС	Community Health Centre
CLD	Central Leprosy Division
CLTRI	Central Leprosy Teaching and Research Institute, Chengalpattu
DFIT	Damien Foundation India Trust, Chennai
DLC	District Leprosy Consultant
DLO	District Leprosy Officer
DNT	District Nucleus Team
DPMR	Disability Prevention and Medical Rehabilitation
GLRI	German Leprosy Relief association (India), Chennai
GMLF	Gandhi Memorial Leprosy Foundation, Wardha
GOI	Government of India
НА	Health Assistant
HE	Health Educator
HI	Health Inspector
HSC	Health Sub-Center
ICDD	Intensive Case Detection Drive
ICMR	Indian Council of Medical Research
IEC	Information Education and Communication
JALMA	Japan Leprosy Mission of Asia, Agra
LQAS	Lot Quality Assurance Sampling
M and E	Monitoring and Evaluation
MB	Multi-Bacillary (Leprosy)
MDT	Multi-Drug Therapy
MLEC	Modified Leprosy Elimination Campaign
МО	Medical Officer
MOFHW	Ministry of Health and Family Welfare
MOSJ and E	Ministry of Social Justice and Empowerment

MPR	Monthly Performance Report
MPW	Multi-Purpose Worker
NGO	Non-Governmental Organization
NHM	National Health Mission
NLEP	National Leprosy Eradication Programme
NLRI	Netherlands Leprosy Relief-India, New Delhi
NMA	Non-Medical Attendant
NMS	Non-Medical Supervisor
NRHM	National Rural Health Mission
PAL	Person Affected with Leprosy
РВ	Pauci Bacillary (Leprosy)
РНС	Primary Health Centre
PIP	Project Implementation Plan
PMW	Para-Medical Worker
PR	Prevalence Rate
PRI	Panchayati Raj Institutions
RCS	Re-Constructive Surgery
RLTRI	Regional Leprosy Training and Research Institutes
SAPEL	Special Action Projects for Elimination of Leprosy
SIHRLC	Schieffelin Institute of Health-Research and Leprosy Centre, Karigiri
SLC	State Leprosy Consultant
SLO	State Leprosy Officer
TL	The Lepra society, Secunderabad
TLM	The Leprosy Mission, Naini, Allahabad
TNA	Training Need Assessment
UT	Union Territory
VHSC	Village Health and Sanitation Committees
WHO	World Health Organization

EXECUTIVE SUMMARY

The National Leprosy Control Programme since its inception in 1955; performed very well and updated the strategies with changing epidemiological pattern in the country. With the introduction of MDT in 1983, NLEP witnessed a dramatic reduction in leprosy burden in the country. The intensified active case detection activities such as MLEC, further revealed that large number of undetected cases remained in the community and needed to be brought them under treatment. Thereafter the programme was integrated into the general health care; and was expected to be implemented along with other national health programmes.

A rising proportion of Multi Bacillary and grade II deformity patients among the newly diagnosed cases as per recent NLEP status reports indicate a long delay in case detection and consequently the on-going transmission in the community. Therefore, it is essential to update the knowledge and skills of the health personnel to cope up with the changing trend of the disease and the programme strategies. Considering this emergent need as per recommendation of Technical Resource Group (TRG) constituted by Central Leprosy Division, a training need assessment was carried out by CLTRI as Nodal Agency with members co-opted from other training institutes followed by development of this guide as a managerial tool for strengthening of training activities under NLEP.

This guide is presented under five chapters as follows:-

- Situation Analysis: This chapter discusses the past and present developments in NLEP, especially with regard to strategies evolved over a period of time to control this debilitating disease. The detailed analysis of sub-optimal case detection and the urgent thirst for assessment of training needs are also discussed under this heading.
- <u>NLEP Training Gap analysis</u>: The review of urgent training need assessment and the gaps in the existing training pattern are discussed in this chapter.
- 3) **Resource Mapping:** In this chapter the currently involved institutions in NLEP trainings are enlisted with mapping of the states to these institutes for execution and evaluation of training at various geographic areas. The document also provides the composition of

faculties of desired specialities as training team.

- 4) <u>Training Design</u>: This chapter contains details of the types of training, course contents for each level of personnel along with well elaboration upon duration and frequency of the training. The chapter also contains the comprehensive place, trainee and trainer matrix and training methodology.
- 5) **Course Curriculum:** Under this chapter the course curriculum at each level of the personnel is detailed including the educational objectives, course contents and training methodologies.
- 6) **Training implementation plan:** This chapter consists of the recommended plan of implementation of trainings at various levels towards factual articulation for improving the implementation of NLEP as per the desired quality.

This document is a complete set of detailed training strategies at various levels, the curriculum design, resource mapping and evaluation of the trainings in the context of current programme requirements. It also provides a supplement for role play sessions to be conducted during the training.

CHAPTER: 1

INTRODUCTION AND SITUATIONAL ANALYSIS

National Leprosy Control Programme (NLCP) was launched in the year 1955. Early case detection by active case finding through a vertical system with dapsone based chemotherapy were the main components of NLCP. The breakthrough discovery of effectiveness of Multi Drug Therapy (MDT) for leprosy in 1970s and subsequently its recommendations by WHO study group in national programmes in 1981; prepared the background for strategic shift in NLCP. Following the recommendations of high power committee under the chairmanship of Dr. M.S. Swaminathan; the National Leprosy Eradication Programme (NLEP) was launched in 1983. Sustained active case detection in campaign mode such as Modified Leprosy Elimination Campaign (MLEC) from 1997 to 2004 along with use of MDT brought down the prevalence of leprosy drastically.

In the year 2005, as India declared elimination of leprosy at the national level, the programme strategy was changed and NLEP was implemented through integration with primary health care system; and self-reporting was relied upon as the main source of case detection. The Prevalence Rate (PR) and the Annual New Case Detection Rate (ANCDR) have remained almost static since 2005 without much decline. Besides, there are a large number of undetected cases in the community. Further there has been a drastic rise in indices of late detection such as proportions of Multi Bacillary leprosy and grade II deformity among new cases. Large number of cases which are not reported to the health facility was also reiterated by many field campaigns such as Block Leprosy Control Campaign¹ (BLCC), Intensive Case Detection Drive (ICDD), Modified Leprosy Elimination Campaign (MLEC), Special Action Projects for Elimination of Leprosy (SAPEL), Population based surveys in Haryana and Uttra Pradesh² and the recently conducted national sample survey JALMA³ study etc. Besides improved case notifications, these campaigns succeeded to get better result through creation of awareness and advocacy for generating community support. Therefore it was imperative to take immediate measures to detect large number of backlog cases and also to detect them in early stage of disease.

The Obstacles for suboptimal case detection are:-

- i. Inadequate level of awareness in the community about leprosy disease⁴.
- ii. Poor literacy status among the high risk individuals resulting into inadequate awareness and lower priority.

- iii. Sub-optimal level of training of staff resulting into insufficient confidence to correctly diagnose and classify the leprosy cases for further treatment.
- iv. Inadequate involvement of community, due to widely prevalent stigma.

However the gradual and sustained efforts for integration of NLEP into general health care system has not happened as expected due to lack of preparedness for integration at various levels. Also, sudden shift in case detection strategy to self-reporting mode drastically reduced case reporting to health facilities. This can be attributed to following factors:

- 1. Lack of trained man power to detect the hidden cases.
- 2. Overburdened staff unable to cope up with multiple responsibilities.
- 3. Inadequate motivation for the neglected disease like leprosy.
- 4. Lack of knowledge and skills, thereby Medical Officers did not have enough confidence to diagnose leprosy cases.
- 5. Insufficient Monitoring and Evaluation mechanism in the periphery leading to complacent attitude among health workers.
- 6. Very few cases being brought to CHC/PHC for confirmation by ASHA/ANM/PMW.
- 7. Lack of administrative commitment from the District Authorities providing low priority to the disease.
- 8. Slow insidious nature of the disease leading to late reporting/ late detection.
- 9. Grass root level (Village Leaders/Peer Group) political will was insufficient.
- 10. Associated high prevalence of stigma in society.

It can be noted that more than half of the above problems are undoubtedly, due to inappropriate training to bring out all the hidden cases for treatment.

Pre-course Learning Evaluation conducted during 2011-15 at RLTRI, Raipur observed that the baseline knowledge and skills in leprosy was very low among District and block level programme managers, PHC Medical Officers and physiotherapists.

While during the routine monitoring and evaluation by various institutes such as CLTRI, it is being observed that about 20 to 30% of PHCs are diagnosing and classifying the leprosy cases correctly, others are only referring the cases to Block PHCs and medical colleges.

WHO / ICMR Research Projects in Raipur, Chhattisgarh conducted during 2011-13 and post-training performance evaluation conducted at CLTRI clearly indicated that capacity building of Health Personnel improves early case detection and coordinated case management due to boosted commitment, accelerated involvement and strengthened capacity of health workforce to pass accurate information to the community.

There is a definite need for up gradation of the skills by means of designing and implementing strategic training curriculum towards yielding specific objective of early and optimal case detection and management.

The above discussion clearly demonstrate that urgent thrust is required for training of health workforce to bring out the large number of hidden cases for appropriate treatment thereby helping in achieving elimination, preventing disabilities and also increase awareness in the community by way of early voluntary reporting/ case detection; thereby, decreasing stigma and improving community health seeking behaviour.

CHAPTER: 2

NLEP TRAINING: THE GAP ANALYSIS

Regular updating the knowledge and skills of the programme functionaries are required for optimal implementation of NLEP guidelines. Therefore there is urgent need of training of all personnel involved in NLEP activities. The training should mainly focus upon detection and treatment of large number of undiagnosed cases of leprosy especially in early phase of disease and preventing disability.

Following are the gaps identified in the existing training pattern in NLEP at various levels.

- Large gap in trainings: There was large gap in the existing training with respect to who needs to be trained, resource faculties for training, training contents, frequency and evaluation methods.
- 2. Non availability of adequately trained 'Trainers' across the country: It was realized that there is a scarcity of trained manpower, so as to function as trainers. Also the available trainers are severely under-utilized.
- Insufficient set of designed curriculum for health personnel at each level: The standard curricula for each set of manpower was lacking. So also the training methodology, expected competencies and skills were not uniform.
- 4. The available training curricula differed across various levels: The training curricula were diverse across the country and not uniform. These curricula were though prepared according to NLEP mandate, it showed much variability for the concerned set of manpower to be trained.

Therefore it was felt imperative to prepare a comprehensive training document incorporating detailed, standardized and uniform contents.

5. Inadequate monitoring and evaluation of the NLEP trainings: It was observed that the monitoring of the NLEP trainings were not performed, resulting in lack of desired

competencies in the trained manpower. Therefore, it was felt that there is urgent need to monitor and evaluate the impact of all trainings conducted under NLEP.

Further due to frequent new appointments and transfers of health workforce especially MOs and NMS; the newly joined staffs are not exposed to training early in the posting leading to suboptimal performance.

CHAPTER: 3

RESOURCE MAPPING

The purpose of resource mapping is, to identify institutes and facilities to conduct quality training at the appropriate level. Also it is aimed at faculty resource identification, so as to enable selecting and listing out suitable faculties for appropriate trainings, for example, formation of training team. The above exercise is essential for improving not only the quality of the training but to ensure appropriate faculties for training purpose and to prevent inappropriate faculties dealing with multiple topics, which will compromise the quality of teaching and learning.

There is need for following actions for improving quality of trainings:

- Decentralization of the training, sustaining the training up to district level will maintain uniformity without compromising the training quality.
- Training should be based on basic issues such as demonstration of cardinal signs and symptoms and clinical management of leprosy.
- 3. State/region wise diversities should be dealt by the specific states if any without compromising the quality.
- 4. Formation and capacity strengthening of the core training team at predetermined focal point.

I. Institutes that are currently engaged in training for anti-leprosy activities

- 1. Central Leprosy Teaching and Research Institute (CLTRI), Chengalpattu (TN)
- 2. Regional Leprosy Training and Research Institute (RLTRI), Aska (Odisha)
- 3. Regional Leprosy Training and Research Institute (RLTRI), Gouripur (WB)
- 4. Regional Leprosy Training and Research Institute (RLTRI), Raipur (CG)
- 5. Schieffelin Institute of Health-Research and Leprosy Centre, Karigiri (TN)
- 6. The Leprosy Mission (TLM) Hospital, Naini, Allahabad (UP)
- 7. The Leprosy Mission Community Hospital, Shahdra, Delhi.

- 8. Bombay Leprosy Project (BLP), Mumbai (MS)
- 9. Gandhi Memorial Leprosy Foundation, Wardha(GMLF), (MS)
- 10. German Leprosy Relief Association- India (GLRI), Chennai (TN)
- 11. Netherlands Leprosy Relief-India (NLRI), New Delhi
- 12. Damien Foundation India Trust (DFIT), Chennai TN
- 13. Japan Leprosy Mission of Asia (JALMA), Agra (UP)
- 14. The Lepra Society, Secunderabad (TL)

Apart from these training institutes, states are conducting NLEP trainings using their resource persons.

II. <u>Earmarking of the states for the training institutes:</u>

a. The states can be earmarked to the GOI institutes for resource mapping each of the above mentioned NLEP partner institutions involved in the training. A central training team is recommended consisting of members from above mentioned Government institutions, Non-governmental organizations and also from Retired Central / State Govt. Officers, pooling the appropriate training faculties.

To further facilitate the training programme, above listed institutions can be assigned with states / UTs which are closer to them so that much inconvenience to the trainees could be avoided and also to save on travel expenditure.

b. There is a need for validation of the training programme in terms of availability of the adequate facilities and appropriate faculties before the above institutions are assigned the job of training and to make necessary arrangements to make up the deficiencies in such institutions.

Role of Central and Regional Institutes of Government of India in NLEP trainings

- I. CLTRI, Chengalpattu (Tamil Nadu)
 - Overall Coordination, Planning, Implementation and Evaluation of trainings in all States and UTs in consultation with the partner ILEP agencies in their allocated states.
 - 2. Coordination, Planning, implementation and Evaluation of trainings at allocated States and UTs.
 - 3. Coordination with RLTRIs, ROHFW, Regional Government institutes and ILEP agencies.

- 4. Annual assessment of training needs and preparation of annual calendar.
- 5. Standardizing, updating of training design and curriculum in consultation of respective stakeholders.
- 6. Communication with CLD in all policy and implementation matters.

II. RLTRI, Raipur (Chhatisgarh)

- Coordination, Planning, implementation and Evaluation of trainings in allocated States and UTs in consultation with the partner ILEP agencies in their allocated states.
- 2. Coordination with ROHFW, Regional Government institutes and ILEP agencies.
- 3. To constitute a Core Training Team.

III. RLTRI, Aska (Odisha)

- Coordination, Planning, implementation and Evaluation of trainings in allocated States and UTs in consultation with the partner ILEP agencies in their allocated states.
- 2. Coordination with ROHFW, Regional Government institutes and ILEP agencies.
- 3. To constitute a Core Training Team.

IV. RLTRI, Gouripur (West Bengal)

- Coordination, Planning, implementation and Evaluation of trainings in allocated States and UTs in consultation with the partner ILEP agencies in their allocated states.
- 2. Coordination with ROHFW, Regional Government institutes and ILEP agencies.
- 3. To constitute a Core Training Team.

State allocation to the Regional institutes.



III. <u>The composition of the Core Training Team:</u>

The Core Training Teams at Center, State and District level need to be constituted with following member faculties.

- i. Epidemiologist
- ii. Clinician / Dermatologist
- iii. Orthopedic surgeon / General Surgeon/Ophthalmic Surgeon
- iv. Physiotherapist
- v. Field supervisor
- vi. Lab Technician
- vii. Orthotic Technician

The above member faculties of the Core Training Team require thorough training before incorporation into training programme as a 'Trainer'.

The training of 'Core Training Team' is one of the crucial components.

CHAPTER: 4

TRAINING DESIGN

Designing a proper training programme will avoid use of sub-optimal training methodologies and inappropriately trained health workforce. The training design should fulfil the anticipated future needs as well so as to tackle forthcoming future challenges well in advance. The training design should specifically explain the course contents, domain specific syllabi, types of training, frequency of training, place of training, its duration and methodology in detail.

I. <u>Training course contents:</u>

The training need to be specific to and in accordance with the pattern of work performed by the particular health personnel. Therefore, the training course contents are broadly divided into two domains; programme management and clinical case management with variable proportions; for programme managers and physicians/surgeons involved in the implementation of NLEP.

Following are two domains identified to categorize the training course contents;

1. Programme Management	2. Clinical Case Management
-------------------------	-----------------------------

II. <u>Level wise proportion of course syllabi in each domain</u>

Training programmes in NLEP should be carried out for officials at following four levels.

State level	District level	Block level	PHC level
-------------	----------------	-------------	-----------

The level wise proportion of course contents recommended in each domain is as follows

Loval	Contents		
Level	Programme management	Clinical case management	
State level	70 %	30 %	
District level	60 %	40 %	
Block level	40 %	60 %	
РНС	25%	75%	

The state and district level trainings need to be institution based and the components such as Case finding, Treatment compliance, Recording and reporting and community participation need to be imparted at all levels including the block and PHC level trainings. The course contents for training of each type of personnel should be according to the respective standard training manuals⁵⁻⁸.

III. <u>Type of training:</u>

The training programmes designed for health personnel in NLEP are formulated into following two types.

- **1. Induction Training:** The induction training need to be provided to all the fresh recruits in the health service. Health personnel performing duties other than NLEP since past five years even if trained in NLEP previously need to be considered as fresh candidates and should be provided induction training.
- 2. Refresher Training: The refresher training course is recommended for all the health personnel currently working in NLEP who had already undergone induction training. The refresher training is recommended every three years after induction training. The refresher training should be directed towards sensitization for newer strategies, reorienting and motivating the staff for better work performance.

IV. <u>Duration of training:</u>

Training of various categories of staff was earlier conducted over varied durations ranging from 1 day to 3 months, sometimes up to 9 months. A thorough review of the training duration is required for optimization of the output with terms of available resources such as time, money and training material. At the District, Blocks and PHCs, the available workforce are already overburdened with responsibilities of multiple programmes; therefore shouldering the NLEP activities without affecting the concurrent assignments is important task to address.

Since their appointment, most of the health staff are already oriented to clinical aspects of leprosy and programme management (NLEP) at least once. Therefore long duration training in NLEP is not required at this juncture. To compensate for reduced duration; the frequency of training can be increased so as to maintain the updated knowledge of the staff.

The health personnel already trained and working in the programme require orientation to the programme management aspects. A refresher, in-service training course is the most appropriate for such staff.

The induction training has to be minimum of five days. It is decided to reduce the minimum training duration for medical officers to three days considering the availability of medical officers at PHCs and time to be spared by them for training. The specific training duration and teaching methodology is provided in detail under the course curriculum of each category of staff. In the training conducted for PHC level MOs, the participants may not be available for entire duration at one stretch. To avoid disruption of day to day functioning

(especially at PHC level) depending upon staff availability the course can be imparted in two phases:-

i. Clinical Aspects and

ii. Programme management aspects

Participant who complete both the phases will only be entitled to get the certification

The refresher training of two days which is meant for personnel already working in the programme, have undergone induction training in the past but those have not undergone any NLEP related training since last five years.

As ASHA is the important community based service provider, she also needs to be provided one day induction training and a half day refresher training every year.

Training of the specific staff for their respective duration needs to be incorporated into the training calendar of districts and states.

Catagory of staff	Duration of training	
Category of Staff	Induction	Refresher
SLO, State NLEP Consultant, DLOs/DLCs/ State Regional Directors	5 days	2 days
Block MO/PHC MO	3 days	2 days
Para-medical supervisors(NMS/Pharmacist/HA/HE)	5 days	2 days
Para-medical workers (HW (M)/(F), NMA, Dresser, AWW)	5 days	2 days
Physiotherapist /Lab. Technician	5 days	2 days
Orthopaedic surgeons	5 days	2 days

Table 1: Duration of training of each category of staff

V. <u>Frequency of training:</u>

The induction training should comprise of all the personnel involved in NLEP activities. It is noted that the state and district level personnel are mostly stable without much frequent turnover. Therefore once the induction training is completed, 1-2 refresher training programmes may be conducted at state and district levels every year. As the staff turnover at block and PHC level is high, there has to be regular training course every 6 months in a calendar year. This will provide the training opportunity for newly appointed staff and work can be adjusted with flexible training programme schedule.

VI. <u>Place-trainer-trainee matrix:</u>

Place of training	Trainer	Whom to train?
State/Region:	Core faculties from leprosy	SLO, State NLEP Consultant
Leprosy institutions	institutions and concerned	DLOs/DLCs/ State Regional
(Govt. /NGOs)	regional directors	directors / RCS Surgeons
		/Physiotherapist/Lab. Technicians
District:	DLOG (DNTG Loprogu	Block MO/PHC
Leprosy institutes /	DLOS/DNTS, Leprosy	MO/NMS/Pharmacist/HA/HE
Dist. Training Center	Institutes	
Block:	DLOs/DNTs, Block MO,	HW (M)/(F), NMA, Dresser, ICDS,
GH/Block PHC/CHC	РНС МО	ASHA

Table 2: Place –trainer-trainee matrix

DLC: Dist. Leprosy Consultant, MO: Med. Officer, <u>HW: Health worker (Male/Female)</u>, NMA: Nonmedical attendant, <u>NMS: Non-Medical Supervisor</u>, HA: Health Assistant, HE: Health Educator.

Table 3: Major institutes / centres engaged in training in anti-leprosy activities

Sr.	Name of the Institute	Type of training
No.		
1.	Central Leprosy Teaching and Research	SLO, State NLEP Consultant DLOs/DLCs/
	Institute (CLTRI), Chengalpattu (TN)	State Regional directors / RCS Surgeons /
		MOs/Physiotherapist/Lab. Technicians
2.	Regional Leprosy Training and Research	DLOs/DLCs/ MOs/Physiotherapist/Lab.
	Institute (RLTRI), Aska (Odisha)	Technicians
3.	Regional Leprosy Training and Research	DLOs/DLCs/ MOs/Physiotherapist/Lab.
	Institute (RLTRI), Gouripur (WB)	Technicians
4.	Regional Leprosy Training and Research	SLO, State NLEP Consultant DLOs/DLCs/
	Institute (RLTRI), Raipur (CG)	State Regional directors / RCS Surgeons /
		MOs/Physiotherapist/Lab. Technicians
5.	All India Institute of Physical Medicine and	Surgeons for RCS, Physiotherapists
	Rehabilitation, Mumbai (MS)	
6.	Schieffelin Institute of Health-Research	Surgeons for RCS, Physiotherapists, Lab.
	and Leprosy Centre, Karigiri (TN)	Technicians
7.	The Leprosy Mission (TLM) Hospital, CNI	RCS Surgeons / MOs/Physiotherapist/Lab.
	Bhawan, 16 Pandit Pant Marg, New Delhi	Technicians
	(including its branches)	
8.	Bombay Leprosy Project (BLP), Mumbai	Lab. Technicians
9.	Gandhi Memorial Leprosy Foundation,	MOs, NMS/Pharmacist/HA/HE
	Wardha (GMLF), (MS).	
10.	German Leprosy Relief Association- India	Surgeons for RCS, MOs, Lab. Technicians
	(GLRI)D-375, 4th Floor, Near Vivekanand	
	School, Anand Vihar, New Delhi (including	
	its branches)	
11.	Netherlands Leprosy Relief-India (NLRI),	MOs, NMS/Pharmacist/HA/HE
	B-4/57, Safdarjung Enclave, New Delhi	
	(including its branches)	
12.	Damien Foundation India Trust (DFIT), 14,	Surgeons for RCS, MOs, NMS
	Venugopal Avenue, Spurtank Road,	
	Chetpet, Chennai (including its branches)	
13.	Japan Leprosy Mission of Asia (JALMA),	MOs, Lab. Technician
	Agra (UP)	

14.	The Lepra Society, Plot No. 17, Krishnapuri	MOs, NMS/Pharmacist/HA/HE
	Colony, West Marredpally Secunderabad,	
	Telangana (including its branches)	
15.	Swiss Emmaus India, J-17 South City	Surgeons for RCS, MOs, NMS
	Gurgaon, Haryana (including its branches)	
16.	Association for Leprosy Education,	Surgeons/MOs/NMS/ HA/HE
	Rehabilitation and Treatment - India (Alert	
	India), B-9, Mira Mansion SION (W),	
	Mumbai	



Sr. Name of the Institute

- No.
- 1. Central Leprosy Teaching and Research Institute (CLTRI), Chengalpattu (TN)
- 2. Regional Leprosy Training and Research Institute (RLTRI), Aska (Odisha)
- 3. Regional Leprosy Training and Research Institute (RLTRI), Gouripur (WB)
- 4. Regional Leprosy Training and Research Institute (RLTRI), Raipur (CG)
- 5. All India Institute of Physical Medicine and Rehabilitation, Mumbai (MS)
- 6. Schieffelin Institute of Health-Research and Leprosy Centre, Karigiri (TN)

- 7. The Leprosy Mission (TLM) Hospital, CNI Bhawan, 16 Pandit Pant Marg, New Delhi
- 8. Bombay Leprosy Project (BLP), Mumbai
- 9. Gandhi Memorial Leprosy Foundation, Wardha (GMLF), (MS).
- 10. German Leprosy Relief Association- India (GLRI)D-375, Anand Vihar, New Delhi
- 11. Netherlands Leprosy Relief-India (NLRI), B-4/57, Safdarjung Enclave, New Delhi
- 12. Damien Foundation India Trust (DFIT), 14, Venugopal Avenue, Spurtank Road, Chetpet, Chennai
- 13. Japan Leprosy Mission of Asia (JALMA), Agra (UP)
- 14. The Lepra Society, Plot No. 17, Krishnapuri Colony, West Marredpally Secunderabad, Telangana
- 15. Swiss Emmaus India, J-17 South City, Gurgaon, Haryana
- 16. Association for Leprosy Education, Rehabilitation and Treatment India (Alert India), SION (W), Mumbai

VII. <u>Training methodology:</u>

The training course could be delivered through following teaching / learning methods;

Table 4: Available training (teaching-learning) methods:

Lecture - discussion	Problem solving exercise
Group discussion	Group work/assignment
Case demonstration and discussion	On-site /field based training
Role play	Quiz
Scenario discussion	Monitoring and coaching
On the job training	Reading i.e. through books and modules
Lecture demonstration	Conferences
Work based that is "e" learning	Academic programme

There are plenty of methods as listed above available for conducting a training out of which is felt that lecture demonstration cum field training will be most appropriate for our purpose. Other methods need to be decided as appropriate for the topic and the required skills to impart / learn the topic.

These teaching learning methods can be grouped into five key categories.

- Didactic/ interactive methods e.g. lecture-demonstration/discussion using audio visual aids like PowerPoint presentation, pre-recorded videos, etc
- Group participatory methods and Brain storming using NLEP training manuals⁴⁻⁷ for MOs, LTs, Health Supervisors, Physio- Therapists/Technicians
- 3. Problem solving exercises e.g. calculating prog. indicators for own districts
- 4. Group assignments e.g. group discussion, scenario presentation
- 5. Competitive methods e.g. quiz

All the teaching-learning methods are incorporated according to the needs of the learner.

VIII. No. of participants for each training programme:

The training institutes are required to have minimum essential facilities to conduct the training with desired level of quality. For the training of programme managers viz. SLOs, DLOs, MOs and the technical staff viz. Physiotherapist and Lab. Technician the participants should not exceed 30, while the minimum participants need to be at least 10. Atleast, one training programme need to be organized every year for the surgeons of each state at an appropriate institution with the required facilities and scope for hands-on training.

The ratio of participants to resource personnel should not be below 4: 1 per day for training of technical and managerial staff, while the resource faculties need to be at least two per day for training of other staff. For the training of surgeons, the participants to resource personnel should not be more than 2:1, with active involvement of participants on hands-on operative training besides demonstrations. For example, the surgeons attending RCS training in the beginning can assist the operative procedure, while those already assisted the RCS surgeries can perform the surgery under the guidance of the trainer.

IX. Essential Facilities required at the training institute:

The facilities available in the institution imparting training programme determine the quality and impact of the training programme. Essential facilities required to be possessed by the training institutes are as follows:

- Patient pool: The case demonstration for each category of staff requires essentially the leprosy patients for relevant understanding of the topic. The clinical aspects of leprosy should never be conducted without demonstration of a patient of leprosy. At least a few patients of following different types are required during the institutional training
 - i. Leprosy patients with varying clinical signs/ symptoms for disease classification (MB/PB)
 - ii. Leprosy patients with reactions (Lepra reaction, ENL)

- iii. Patients with plantar ulcers
- iv. Pre/post-operative patients of Re-Constructive Surgery for deformity, etc.
- 2. **Infrastructure and logistic facilities:** The minimum infrastructure facilities required to be available in the institution carrying out the training programmes, according to the training curriculum are as under:
 - i. Lecture-Demonstration hall with audio-visual projection facilities,
 - ii. Physiotherapy unit with basic equipment,
 - iii. Laboratory with skin smear facility etc.
- X. Involvement of Medical Colleges in NLEP Training: Medical Colleges play a crucial role in diagnosis and management of various clinical conditions associated with leprosy including Re-Constructive Surgeries. Various departments such as Dermatology, Orthopaedics, General Surgery, Clinical Pathology, Physiotherapy, Community Medicine and clinical or community health nursing can be actively involved in the NLEP activities. The basic orientation of the medical college staff towards NLEP can be achieved by regular Continuing Medical Education Programmes. Dermatology or Community Medicine departments can be the important stakeholder in the advocacy of NLEP activities especially for organizing anti-leprosy fortnight activities in Medical Colleges.

Resource faculties from nearby Core Training Team can be good source of trainers. Once the faculties are trained, they can be utilized as the trainer at District/Block/PHC levels.

The undergraduate/post graduate/ paramedical students studying at medical institutions should be encouraged to undertake research in Leprosy/NLEP.

Table 5: Proposed matrix for training of medical college faculty and students

Participants	Place of training (Trainer)	Duration
Teaching faculties	Leprosy institutes/Dist.	1 day orientation
	Nucleus Team (DNT) (Core	
	Training Team)	
Post-graduate students	Leprosy institutes/DNT (Core	5 days
(Dermatology)	Training Team)	-

Post-graduate students	Leprosy institutes/DNT (Core	5 days
(Other discipline)	Training Team)	
Internee	Leprosy institutes/DNT (Core	5 days
	Training Team)	

XI. Operational Research in NLEP: It is also proposed to conduct one operational research/ implementation research training course each year at CLTRI, with the ultimate aim of recommending evidence-based solutions /interventions for improving health care services for persons affected with leprosy. For this purpose, applications for participation will be invited from professionals and other persons engaged in anti-leprosy activities. They will be asked to submit concept notes specifying the research questions that they would like to address and brief methodology proposed. Priority will be given where investigators of a given proposal belong to different streams-programme implementation, dermatology, surgery, orthopaedics, biostatistics and epidemiology.

The applications will be screened and priority research questions will be selected in consultation with CLD. For the selected proposals, two investigators/co-investigators will be invited for participation. A maximum of fifteen proposals will be selected for this purpose.

The training course will be conducted in three parts:-

- Protocol development workshop for five days, where the training in operational research methodology will be undertaken and the detailed protocols for the selected proposals will be developed. The facilitators will comprise of faculties from CLTRI as well as from other reputed institutes undertaking operational research.
- 2. Mentorship for data collection for the period of 6-9 months, including onsite supervision.
- 3. 5 day workshop for data analysis and report writing. Certificate for participation in the course can be provided at submission for publication.

The participants will be encouraged to use secondary data as far possible and use the funds available with the parent institute for travel etc. However, the necessary support for funds to conduct the research when required will be explored through CLD.

CHAPTER: 5

CURRICULA FOR TRAINING OF STAFF IN NLEP

5.1 Curriculum for Training of State Leprosy Officers

Day	Sessions	Duration
	Pre-test	30 min
1	1. Critical appraisal of leprosy trend at national and regional level	90 min
	2. Programmatic management of leprosy	3 hours
2	1. Monitoring and evaluation of NLEP activities	4 hours
Z	2. IEC and counseling	1 hours
3	1. Field activity (Visit to health institutions,	5 hours
	demonstration of field activities)	
4	1. Prevention of Disabilities	4 hours
Ĩ	2. Community based Rehabilitation	2 hours
	1. Presentation of the findings of field activity and	2 hour
	group discussion	
5	2. Special case detection activities	1 hour
	3. Management of referrals in NLEP	1 hour
	Post-test with discussion	1 hour

Duration: 5 days

Detailed session wise curriculum for training of SLOs

DAY - 1 NLEP and Programme management

Educational Objectives	Session Contents and Skills	Methodology
Pre-test		(30 min)
Critical appraisal of leprosy trend at national and regional level		(90 min)
 Describe epidemiological trend of leprosy at global, national and state level. To critically appraise the national and regional leprosy situation. To discuss NLEP strategies and activities. 	 NLEP objectives and strategies. Indicators for assessment of burden of leprosy at global, national and state level. Critical appraisal of national and regional leprosy trend. Recent innovations in NLEP. 	LECTURE DISCUSSION (90 min)
Programmatic management	of leprosy	(3 hours)

1. To demonstrate cardinal	1. The common signs and symptoms	CASE DEMONSTRATION	
signs of leprosy	of leprosy.	(30 min)	
	2. History taking, Sensory Testing	SLIDE SHOW for	
	and Voluntary Muscle Testing.	differential diagnosis	
		(30 min)	
2. Lab diagnosis of leprosy	3. Lab diagnosis of leprosy.	LECTURE	
3. To describe surveillance	4. Operational aspects of AMR	DEMONSTRATION	
of AMR in leprosy	surveillance	(Including demonstration	
4. To describe management	5. Management of leprosy.	of various MDT)	
of leprosy using MDT		(1 hour)	
1. Diagnose and manage	5. Clinical presentation of type 1 and	LECTURE	
leprosy reactions	type 2 leprosy reactions.	DEMONSTRATION	
	6. Management of lepra reactions	(30 min)	
2. Enumerate conditions for	7. Monitoring of PAL with reaction/		
referral of PAL with	neuritis and on steroid therapy.		
reaction	8. Differentiate Relapse and Reaction		
	9. Indications for referral of PAL		
	with reaction.		
5. To ensure treatment	10. Key messages for leprosy patients	ROLE PLAY	
compliance	and their family members.	Counseling of PAL and	
	11. Defaulter retrieval mechanism.	family members (30 min)	
PANEL DISCUSSION on unanswered questions (15 min)			

Day 2: Monitoring and evaluation of NLEP activities

Duration: 4 hours

Supervision (1 hours)		(1 hours)
Educational Objectives	Session Contents and Skills	Methodology
 Describe principles and skills in supervision of NLEP activities. Describe planning supervisory visit and preparation of check list 	 Principles and skills in supervision of NLEP activities. Planning supervisory visit. Preparation of supervisory checklist 	LECTURE DISCUSSION supervision of activities in a health centre after preparing supervisory check list
Monitoring and evaluation of NI	LEP activities	(3 hours)
 Describe monitoring and its process Discuss monitoring the planned (in PIP) activities Calculate, analyse and interpret indicators for monitoring the progress of programme and send feedback. Use of USIS for improved 	 Definition and need for monitoring, records and reports in NLEP Monitoring of NLEP activities at district level and block level. Calculation of values for the main indicators based on sample from district register and State reports and its interpretation MDT and inventory management Computerized information system 	LECTURE DISCUSSION monitoring, Recording and reporting and USIS GROUP WORK for calculation of indicators on the basis of sample from district register and its presentation Demonstrate NIKUSHTH (Hands On)

Day 2: IEC and Counseling

Duration: 1 hour

Educational Objectives		Session Contents and Skills	Methodology
1.	To identify the IEC needs and appropriate channels for target groups to disseminate leprosy related messages Prepare Annual action Plan for IEC and its implementation To plan SLAC in their area	 Communication process and its components Situational analysis for IEC needs Selection of appropriate mode of communication as per target group Various types of leprosy IEC activities Annual action plan for IEC activities 	LECTURE DISCUSSION (30 min)
3.	Discuss role of health care facility in combating leprosy stigma and discrimination	6. Key messages to generate awareness regarding leprosy linkages with NRHM for implementation of IEC activities	GROUP DISCUSSION (15 min)
4.	Discuss the modalities of counselling leprosy patient at various stages of treatment	 Counselling at the start of MDT(add components of counselling: about disease, MDT effects, reaction identification, identification of early signs of disability) Counselling on treatment completion Counselling of PAL family 	ROLE PLAY (Annex.5) (15 min)

Day 3: Field visit

Duration: 5 hours

Ed	ucational Objectives	Session Contents and Skills	Methodology
1.	To supervise, monitor and evaluate NLEP activities in the field area. Provide practical field training in planning, implementation and evaluation of specific activities such as school survey, house-to-house survey etc.	 Visit to PHC/ Health Center for monitoring and evaluation of NLEP activities. Community based survey for case detection. IEC and stigma reduction activities for prevention 	FIELD VISIT (Visit to a Centre conducting NLEP activities e.g. DLO, organization of special activity e.g. School health Education programme, visit to leprosy colony, house-to- house visit for case
3. 4.	To impart training on implementation issues in activities for reducing stigma and discrimination of people affected with leprosy. To review the implementation	 and control of leprosy. 4. Discussion with the stakeholders in difficulties for implementation of social welfare measures for persons affected with because 	house visit for case detection activities etc.) (Discussion with DLO/SLO for operational issues in rehabilitation of PAL) A checklist can be used for this task.
	welfare measures for PAL.	iepiosy.	

Day 4: Prevention of Disability

Duration: 4 hours

Educational Objectives	Session Contents and Skills	Methodology
 To assess the disabilities among PAL Assessment risk and respective management of disabilities 	 Impairment, deformity and disability. Voluntary muscle testing and sensory testing WHO Grading of deformities and EHF score Management of deformities 	LECTURE DEMONSTRATION (1 hour) CASE DEMONSTRATION (1 hour)
 Describe prevention management of contractures Describe prevention and management of ulcers 	 France of deformation Management of stiffness Care of paralysed muscles Prevention and management of ulcers Different types of foot-wares. Self-Care Practices 	ONSITE LECTURE DEMONSTRATION (Physiotherapy and foot-ware unit) (1 hour)
 5. Describe criteria of selection of PAL for RCS 6. Role of RCS for PAL 	 8. Criteria for selection of PAL for RCS 9. Over view of common reconstructive surgeries, pre/post operative care 	CASE DEMONSTRATION (1 hour)

Educational Objectives	Session Contents and Skills	Methodology
Community Based Rehabilitation		(2 hours)
1. To discuss various	1. Rehabilitation and its types	LECTURE
rehabilitative needs for PAL.	2. Assessment of rehabilitative needs	DISCUSSION:
2. To describe procedure of	of the PAL	Rehabilitation
organizing rehabilitation	3. Organization of rehabilitation	programme and
programme for leprosy	services for disabled	facilities available for
affected in the community	4. Facilities available for Community	disubled people
3. To discuss methods of	based rehabilitation of leprosy	
integrating and coordinating	affected persons under health	
with organizations providing	system and other ministries like	
rehabilitative services for	Ministry of Social Justice and	
other debilitating diseases	Empowerment/NGOs/ Civil bodies	
for benefit of PAL	5. Procedure of coordination with	
	other organizations providing	
	specialized services for	
	rehabilitation of PAL and with those	
	for other debilitating diseases	
	6. Social welfare schemes for LAPs and	
	their families.	

Day 5: Specific issues in NLEP

Duration: 4 hours

Educational Objectives	Session Contents and Skills	Methodology
Presentation of the findings of	field activity and group discussion	(2 hours)
Special Case detection activities		(1 hour)
 To discuss health seeking behavior of the community and methods to address barriers for self-reporting for treatment and enhance utilization of public health care services. To discuss appropriate use of active and passive case finding 	 Health seeking behavior of the community Methods to address barriers for self reporting and enhance utilization of services Advantages / disadvantages of passive versus active case finding and their appropriate use Block leprosy awareness campaign Vulnerability mapping and planning and implementation of active case detection 	1. GROUP DISCUSSION for health seeking behaviour of the community and active passive case finding, quality of care and facilities required to maintain quality services at all the three levels of health system

Educational Objectives	Session Contents and Skills	Methodology
Management of referrals in NLE	P	(1 hour)
1. Discuss referral system,	1. Quality of care and patient's	LECTURE DISCUSSION
concept of quality of leprosy	perspective and facilities required	(1 hour)
services, maintenance of	for PAL at primary, secondary and	
good quality leprosy services	tertiary level	
in the state	2. Referral and cross notification to	
	ensure treatment compliance	
Post-test with discussion		(1 hour)

5.2 Curriculum for Train	ing of District	Leprosy Officers
--------------------------	-----------------	-------------------------

Duration :	5	days
-------------------	---	------

Day	Sessions	Duration
	Pre-test	30 min
1	1. NLEP and Leprosy Situational analysis	2 hours
	2. Clinical management of leprosy	4 hours
	1. Prevention of Disability	4 hours
2	2. Management of Lepra reactions	2 hours
	3. Rehabilitation of LAPs	2 hours
3	1. Field activity (special activities)	4 hours
5	2. Supervision	2 hours
4	1. Monitoring and evaluation of NLEP activities	4 hours
	2. Effective implementation of IEC	2 hours
	1. Decentralized Planning	4 hours
5	2. Discussion on specific issues	2 hours
	Post-test with discussion	1 hour

Detailed session wise curriculum for training of DLOs

DAY - 1 NLEP and Leprosy Situational analysis

Duration: 2 hours

Educational Objectives	Session Contents and Skills	Methodology
Pre-test		(30 min)
 Describe epidemiological status, new paradigm shift under the programme and convergence of programme activities with NRHM. Describe the Strategies adopted and their implications in 'Reducing the burden of Leprosy in the community'. 	 Evolution of NLEP and Current programme objectives and strategies. Epidemiological situation of leprosy and factors affecting it. Institutional mechanism available under NRHM that can be utilized to provide services to people affected with leprosy. Operational innovations in NLEP. 	LECTURE DISCUSSION (45 min) GROUP DISCUSSION (1 hour) Presentation by 2-3 participants in their settings Innovative problem solving initiatives (if any)
Self-activity listing of unanswo	(15 min)	

DAY 1: Clinical management of leprosy

Duration: 4 hours

Educational Objectives	Session Contents and Skills	Methodology
1. To demonstrate cardinal	1. The common signs and symptoms of	CASE
signs of leprosy	leprosy.	DEMONSTRATION
	2. Examination / Assessment of treatment	(30 min)
	need of PAL- History taking, General	SLIDE SHOW for
	physical examination, examination of skin	differential
	lesion, nerve examination including	diagnosis (30 min)
	Sensory Testing, Voluntary Muscle Testing	
2. To discuss role of	3. Role of laboratories in the management of	LECTURE
laboratories in	leprosy.	DEMONSTRATION
management of leprosy	4. Operational aspects of AMR surveillance	(Including
3. To describe surveillance	5. Management of leprosy.	demonstration of
of AMR in leprosy		various MDTs)
4. To describe		(45 min.)
management of leprosy		
using MDT		
5. To define various types	5. Definition of "New" case, other cases and	LECTURE
of patients for	"Defaulter" issues.	DISCUSSION
registration.	6. Case management in difficult situations e.g.	(30 min)
6. To address routine case	Pregnancy, TB, HIV etc.	PROBLEM
management issues.	7. Indications for referral, process of	SOLVING
	accompanied MDT etc.	EXERCISES
		(15 min)
7. To ensure treatment	8. Key messages to be communicated to a	ROLE PLAY
compliance	person affected by leprosy and family	Counseling of PAL
	members at different stages.	and family
	9. Defaulter retrieval mechanism	members (30 min)
7. Diagnose and manage	10.Clinical presentation of type 1 and type 2	LECTURE
leprosy reactions	leprosy reactions	DEMONSTRATION
	11.Features of severe lepra reactions	(əv mini)
8. Enumerate conditions	12.Treatment of reactions	SCENARIO
for referral of PAL with	13.Monitoring of PAL with reaction/ neuritis	DISCUSSION /
reaction	and on steroid therapy	QUIZ (30 min)
	14.Differentiate Relapse and Reaction	
PANEL DISCUSSION on una	answered questions	(15 min)

Day 2: Monitoring of NLEP activities

Duration: 4 hours

Educational Objectives		Session Contents and Skills	Methodology
Su	pervision		(1 hour)
1.	Describe principles and skills	1. Principles and skills in supervision of	LECTURE
	in supervision of NLEP	NLEP activities.	DISCUSSION
	activities.	2. Planning supervisory visit.	supervision of
		3 Prenaration of supervisory checklist	activities in a
	5. Treparation of supervisory enceknise	health centre after	
2.	Describe planning supervisory visit and preparation of check list		preparing supervisory check list
----------	--	--	---
M	onitoring and evaluation of NI	LEP activities	(3 hours)
1.	Describe monitoring and its	1. Definition and need for monitoring,	1. LECTURE
	process	records and reports in NLEP	DISCUSSION
2.	Discuss monitoring the planned (in PIP) activities Calculate, analyse and interpret indicators for monitoring the progress of programme and send feedback.	 Monitoring of programme activities or progress of programme, calculation and interpretation of indicators Calculation of values for the main indicators based on sample from district register and State reports and interpretation of performance of the 	monitoring, Recording and reporting and USIS (ULF) GROUP WORK for calculation of indicators on the basis of sample
4. 5.	Effective presentation of analyzed data Use of USIS for improved monitoring	programme 4. MDT and inventory management 5. Conduction of meeting and providing feedback 6. Computerized information system	from district register and its presentation

Day 2: IEC AND COUNSELLING

Duration: 1 hour

Educational Objectives		Session Contents and Skills	Methodology
1.	Discuss role of health care facility in combating stigma and discrimination due to leprosy	 Key messages to generate awareness regarding leprosy linkages with NRHM for implementation of IEC activities 	LECTURE DISCUSSION (30 min)
2.	Discuss the modalities of counselling leprosy patient at various stages of treatment	 Counselling at the start of MDT Counselling on treatment completion Counselling of PAL family 	ROLE PLAY (Annex.5) (30 min)

Day 3: Field visit

Duration: 5 hours

Edu	ucational Objectives	Session Contents and Skills	Methodology
1. 2. 3.	To supervise, monitor and evaluate NLEP activities in the field area. Provide practical field training in planning, implementation and evaluation of specific activities such as school survey, house-to-house survey etc. To impart training on community involvement in	 Visit to PHC/ Health Center for monitoring and evaluation of NLEP activities. Community based survey for case detection. IEC and stigma reduction activities for prevention and control of leprosy. 	FIELD VISIT (Visit to a Centre conducting NLEP activities e.g. DLO, organization of special activity e.g. School health Education programme, visit to leprosy colony, house-to- house visit for case detection activities etc.)
	reducing stigma and discrimination of people affected with leprosy.		

Day 4: Prevention of Disability

Duration: 4 hours

Educational Objectives	Session Contents and Skills	Methodology
 To assess the disabilities among PAL Assessment risk and respective management of disabilities 	 Impairment, deformity and disability. Voluntary muscle testing and sensory testing WHO Grading of deformities and EHF score Management of deformities 	LECTURE DEMONSTRATION (1 hour) CASE DEMONSTRATION (1 hour)
 Describe prevention and management of contractures Describe prevention and management of ulcers 	 5. Management of stiffness 6. Care of paralysed muscles 7. Prevention and management of ulcers 8. Different types of MCR foot-wares 	ONSITE LECTURE DEMONSTRATION (physiotherapy and foot-ware unit) (1 hour)
 Describe criteria of selection of PAL for RCS Role of RCS for PAL 	 8. Criteria for selection of PAL for RCS 9. Over view of common reconstructive surgeries, pre/post operative care 	CASE DEMONSTRATION (1 hour)

Educational Objectives	Session Contents and Skills	Methodology
Community Based Rehabilitati	on D	uration: 2 hours
 To discuss various rehabilitative needs for PAL. To describe procedure of organizing rehabilitation programme for leprosy affected in the community To discuss methods of integrating and coordinating with organizations providing rehabilitative services for other debilitating diseases for benefit of PAL 	 Rehabilitation and its types Assessment of rehabilitative needs of the PAL Organization of rehabilitation services for disabled Facilities available for Community based rehabilitation of LAPs under health system and other ministries like MOSJ and E / NGOs/ Civil bodies Procedure of coordination with other organizations providing specialized services for rehabilitation of PAL. 	LECTURE DISCUSSION: Rehabilitation programme and facilities available for disabled people
	6. Social welfare schemes for LAPs	

Day 5: Specific issues in NLEP

Duration: 4 hours

Educational Objectives	Methodology	
Presentation of the findings of	(2 hours)	
Special Case detection activitie	(1 hour)	
1. To discuss health seeking	1. Health seeking behavior of the	1. GROUP DISCUSSION

and methods to address	2. Methods to address barriers for self	behaviour of the
barriers for self reporting	reporting and enhance utilization	community and active
for treatment and enhance utilization of public health care services. 2. To discuss appropriate use	of health services 3. Advantages / disadvantages of passive versus active case finding 4. Block leprosy awareness campaign	passive case finding, quality of care and facilities required to maintain quality services at all the three levels of
of active and passive case	5. Vulnerability mapping, planning	health system
finding	and implementation of active case	
	detection	
Management of referrals in NL	EP	(1 hour)
1. Discuss referral system,	1. Quality of care and patient's	LECTURE DISCUSSION
concept of quality of leprosy	perspective and facilities required	
services, maintenance of	for PAL at all level	
good quality leprosy	2. Referral and cross notification to	
services in the state	ensure treatment compliance	
Post-test with discussion		(1 hour)

5.3 CURRICULUM FOR TRAINING OF MEDICAL OFFICERS Duration: 3 days

Day	Sessions	Duration
	Pre-test	30 min
4	1. Epidemiology of leprosy	(1 hour)
1	2. Pathogenesis and diagnosis of leprosy	(2 hours)
	3. NLEP, programmatic management PAL	(2 hours)
	1. Lepra reactions and its management	(1 hour)
Э	2. Disability Prevention and Medical Rehabilitation	(2 hours)
Z	3. Supervision of NLEP activities in PHC	(2 hours)
	4. Management of MDT stock and supplies	
	1. Planning, supervision and monitoring of NLEP activities in the jurisdiction area	(2 hours)
3	2. Recording and reporting	(1 hour)
	3. Coordination at various levels (Intra and Inter- sectoral coordination)	(2 hours)
	Post-test with discussion	1 hour

DETAILED SESSION WISE CURRICULUM FOR TRAINING OF MEDICAL OFFICERS

Educational Objectives	Session Contents and Skills	Methodology
Pre-test	<u> </u>	30 min
1. Describe epidemiology of leprosy.	 Epidemiology of leprosy. Epidemiological trend of leprosy and factors affecting it. 	LECTURE DISCUSSION (45 min)
Pathogenesis and diagnosis	of leprosy	(2 hours)
Educational Objectives	Session Contents and Skills	Methodology
1. Describe the pathogenesis of leprosy.	 Characteristics of M. <i>leprae.</i> Pathogenesis of leprosy 	LECTURE DISCUSSION (30 min)
 To demonstrate cardinal signs of leprosy. Describe diagnosis and WHO classification of leprosy Differential diagnosis of leprosy. Describe the slit smear technique for the diagnosis of leprosy. To describe role of MOs in AMR surveillance 	 The common signs and symptoms of leprosy. Examination / Assessment of treatment need of PAL- History taking, General physical examination, examination of skin lesion, examination of nerve Differential diagnosis of leprosy Demonstration of slit skin smear technique, staining and observation of M. <i>leprae</i> under microscope Operational aspects of AMR surveillance 	LECTURE DISCUSSION (30 min) CASE DEMONSTRATION (30 min) ONSITE DEMONSTRATION (30 min)
NLEP, Programmatic Manage	ement and counseling of PAL	(2 hours)
 To discuss history and current strategies of NLEP To discuss patient counseling at the start of treatment To describe management of leprosy using MDT 	 Evolution of NLEP and Current programme strategies. Counseling of patient at the start of treatment Demonstration of various MDT 	LECTURE DISCUSSION (45 min) ROLE PLAY (30 min) DEMONSTRATION OF MDT (30 min)
Self activity listing of unansw	vered questions	(15 min)

DAY – 1 Epidemiology of leprosy

Duration: 45 min

DAY 2: Lepra reactions and its management

Duration: 1 hour

Educational Objectives	Session Contents and Skills	Methodology

1. Describe high risk PAL	1. Feat	ures of PAL at risk of developing reactions	LECTURE
for development of	2. Clini	ical presentation of leprosy reactions	DEMONSTRATION
reactions	3. Feat	tures of severe reactions	(45 min)
2. Diagnose and manage	4. Trea	tment of reactions	SCENARIO
leprosy reactions	5. Mon	itoring of PAL with reaction/ neuritis	(30 min)
3. Enumerate conditions	6. Diffe	erentiating Relapse and Reaction	(50 mm)
for referral of PAL with	7. Indi	cations for referral of PAL with reaction	
reaction			
Disability Prevention and	medica	l rehabilitation Du	uration: 2 hours
1. To assess the disabilities a	among	1. Definition of impairment, Deformity	
PAL		and disability.	
2. Assessment risk and resp	ective	2. Voluntary Muscle Testing and Sensory	LECTURE
management of disabilitie	S	Testing	DEMONSTRATION
		3. Grading of the disability	(45 min)
		4. Management of PAL according to risk of	
		disabilities	
3. Describe prevention and		5. prevention and management of	ONSITE LECTURE
management of contract	ures	contractures	DEMONSTRATION
4. Describe prevention and		6. Care of paralysed muscles	AT
management of ulcers		7. Prevention and management of ulcers	PHYSIOTHERAPY
5. Describe criteria of select	tion of	8. Self-care in leprosy	and FOUT-WARE
PAL for RCS		9. Different types of MCR foot-wares.	(60 min)
6. To describe home-based self-			
care POD activities			
Supervision of NLEP activi	ties in l	PHC D	uration: 2 hours
1. Describe principles, and		1. Principles, skills and procedure for	LECTURE
procedure of supervision		supervision	DISCUSSION
2 Enlict and ownlain cupor	nicom	2. Plan a supervisory cycle and visit	
2. Enlist and explain supervisory			
SKIIIS		3. Preparation of supervisory checklist	
3. Describe steps in plann	ning a		
supervisory visit			
4. Prepare supervisory check list			
5. Discuss management of M	DT	1. Inventory management techniques	LECTURE
stock and supplies			DISCUSSION
PANEL DISCUSSION on unanswered questions (15 min)			

DAY – 3 Planning and implementation of special activities Duration: 2 hours

Educational Objectives	Session Contents and Skills	Methodology
1. To identify high risk individuals	1. Principles of identification of high risks	LECTURE
2. Describe stepwise planning	in programme settings	DISCUSSION
special activities	2. Preparation of implementation	(60 min)
3. Discuss implementation of	checklist	CDOUD
special activities at PHC level	3. Community involvement and	PRESENTATION
	community based organization in	(60 min)

	conduction of special activities at PHC	
	level	
Recording and reporting in NLEP		(2 hours)
1. To discuss various Records to	1. Suspect register, patient card,	LECTURE
 2. To discuss various Reporting formats used at PHC level 	lepra reactions, referral slips and referral registers, disability register, prednisolone register etc.	GROUP EXERCISE (on model MPR)
	2. Monthly reporting format (MPR)	
3. Discuss co-ordination at various levels (Intra and Inter-sectoral)	 Coordination of NLEP activities with DNT Inter-sectoral coordination of NLEP activities with PRI including Village Health and Sanitation committee etc. 	LECTURE DISCUSSION (30 min)
Post-test with discussion		(1 hour)

5.4 CURRICULUM OF TRAINING PROGRAMME FOR SURGEONS

	Du	ration: 5 days
Day	Session	Duration
	Pre-test	30 min
	Epidemiology of leprosy and National Leprosy Eradication	1 hour
	Programme with special emphasis on DPMR activities.	
1	Anatomy and physiology of musculoskeletal system of	2 hours
	upper limb, lower limb and facial muscles	
	Voluntary muscle testing.	1 hour
	Pre-operative physiotherapy for muscular strengthening.	30 min
2	Differential diagnosis and management of neuritis in a	1 hours
	patient of leprosy.	
	Nerve conduction techniques in leprosy.	1 hour
	Orthotic procedures and prescription of appropriate	1 hour
	Orthosis in leprosy.	
	Preparation of splints and plasters for patients affected by	1 hour
	of leprosy.	
	Common surgical procedures in leprosy.	1 hour
3	Assessment of PAL for RCS in upper limb	1 hour
	Various RCS procedures in upper limb.	2 hours
	Post-operative management of leprosy patients.	1 hour
4	Assessment of PAL for RCS in lower limb	1 hour
	Various RCS procedures in lower limb.	2 hours
	Post-operative management of leprosy patients.	1 hour
5	Surgical procedures in restoration of facial muscle	1 hour 30 min
	functions.	
	Management of various ulcers in leprosy patients.	1 hour 30 min
	Organization of prevention of disability (POD) camp	1 hour
	Post-test with discussion	30 min

*Demonstration of major RCS and hands on training have to be provided, the day wise

curriculum may be adjusted accordingly.
**Either of the following methods can be employed for case demonstration of surgical procedures in leprosy in the order of preference.

- 1. Real time demonstration of surgical procedure in leprosy.
- 2. Demonstration of surgical procedure in pre-recorded video.
- 3. Case demonstration in Post-operative of leprosy patient.

DETAIL CURRICULUM OF TRAINING PROGRAMME FOR SURGEONS

DAY 1		
Educational objectives	Session contents and skills	Methodology
Pre-test		30 min
 To describe the epidemiology of leprosy. To describe activities under NLEP with special emphasis on DPMR activities. 	 Burden of disease with respect to prevalence of leprosy at global, national and state level. The interaction of agent host and environmental factors in causation of leprosy. Clinical symptoms Classification and management of leprosy. National Leprosy Eradication Programme. DPMR activities in NLEP 	LECTURE DISCUSSION (1 hour)
To describe the anatomy and physiology musculo- skeletal system of upper limb, lower limb and facial muscles	 The origin insertion, nerve supply and action of the muscles at various joints. Motor and sensory nerve supply of the upper limb. Neuro-muscular function and applied anatomy. Various deformities of upper limb seen in leprosy. Innervations and actions of muscles supplied by cranial nerves Vth and VIIth. 	LECTURE DEMONSTRATION (1 hour) CASE DEMONSTRATION for various deformities in leprosy. (1 hour)
To describe the voluntary muscle testing and sensory testing.	Voluntary muscles testing and sensory testing in leprosy.	CASE DEMONSTRATION (1 hour)
To assess and improve pre-operative muscular strengthening.	Pre-operative physiotherapy techniques for muscular strengthening.	LECTURE DEMONSTRATION (30 min)

D	A	Y	2
$\boldsymbol{\nu}$			-

Educational objectives	Session contents and skills	Methodology
To describe differential	1. Differential diagnosis of neuritis in	LECTURE
diagnosis and	leprosy patients.	DEMONSTRATION
management of neuritis in a patient of leprosy.	2. Management of neuritis.	1 hour)
To describe various nerve conduction techniques in leprosy.	Nerve conduction studies in leprosy	LECTURE DEMONSTRATION (1 hour)
To describe various orthotic procedures and prescription of appropriate orthosis in leprosy.	 Orthosis and prothesis. Nerve biopsy Various orthotic procedures in leprosy. Prescription of orthosis. 	LECTURE DEMONSTRATION (1 hour)

To demonstrate the	1. Various splints used in leprosy.	LECTURE
preparation of splints and	2. Applications of these splints and plaster	DEMONSTRATION
plasters for patients	casts in the deformities cases of leprosy.	(1 hour)
affected by of leprosy.		

DAY 3

Educational objectives	Session contents and skills	Methodology
Assessment of PAL for RCS in	1. Surgical treatment options for	1 hour
upper limb	restoration of upper limb	
	functions in leprosy.	
	2. Differential diagnosis of upper	
	limb deformities in leprosy.	
Various RCS procedures in upper limb.	Upper limb correction surgery	2 hours
Post-operative management of	1. Common post-operative	1 hour
leprosy patients.	complications in leprosy and its	
	management.	
	2. Prevention of post-op	
	complications in leprosy.	

DAY 4

DAI 4		
Educational objectives	Session contents and skills	Methodology
1. Assessment of PAL for RCS in lower limb	 Surgical treatment options for restoration of lower limb functions in leprosy. Differential diagnosis of lower limb deformities in leprosy. 	LECTURE DISCUSSION (30 min) CASE DEMONSTRATION (1 hour)
 Various RCS procedures in lower limb. 	Upper limb correction surgery	
3. Post-operative management of leprosy patients.	 Common post-operative complications in leprosy and its management. Prevention of post-op complications in leprosy. 	LECTURE DISCUSSION (30 min) CASE DEMONSTRATION (1 hour)
4. To describe the post- operative management of leprosy patients.	 Common post-operative complications in leprosy and its management. Prevention of post-op complications in leprosy. 	LECTURE DISCUSSION (1 hour)

DAY 5

Educational objectives	Session contents and skills	Methodology
To describe and demonstrate surgical procedures in restoration of facial muscle functions.	 Surgical procedures for restoration of facial muscle functions in leprosy patients. Differential diagnosis of facial 	LECTURE DISCUSSION (30 min) CASE DEMONSTRATION (1 hour)
	conditions in leprosy.	

1. To describe management of various ulcers in leprosy patients.	 Various types of ulcers in leprosy patients. Surgical management of these ulcers. Physiotherapy techniques in management of ulcers. 	CASE DEMONSTRATION (1 hour) DISCUSSION (1 hour)
2. To describe common surgical procedures in leprosy.	 Skin biopsy. Management of nerve abscess. Various limb amputations. 	LECTURE DISCUSSION (1 hour) CASE DEMONSTRATION (30 min)
3. Organization of prevention of disability (POD) camp	Practical exercise for various aspects of arrangement of POD camps.	LECTURE DISCUSSION (1 hour)
Post-test with discussion		1 hour

5.5. CURRICULUM FOR TRAINING OF PHYSIOTHERAPIST

		Duration 5 days
Day	Session	Duration
	Pre-test	30 min
1	1. Epidemiology of leprosy.1 hour	
	2. Anatomy of upper limb.1 hour 30 min	
	3. Anatomy of lower limb.21 hour 30 mi	
2	1. Need of physiotherapy in leprosy	1 hour
	2. To describe the voluntary muscle testing	1 hour
	3. To evaluate the preoperative muscular strength and	1 hour
	requirement of physiotherapy.	
	4. To describe neuro-paralytic conditions of face among	1 hour
	leprosy patients.	
	5. Group discussion on specific issues of participants	30 min
3	1. To describe the physiotherapy modalities in leprosy	1 hour 30 min
	patients.	
	2. To describe the role of electrotherapy in leprosy.	1 hour 30 min
	3. To describe the post-operative physiotherapy	1 hour
	applications for leprosy patients.	
	4. Group discussion on specific issues of participants	30 min
4	To demonstrate the preparation of splints and plasters	1 hour 30 min
	for patients affected by of leprosy.	
	To describe the role of physiotherapy in leprosy patients of lepra reactions and neuritis.	1 hour 30 min
	To describe management of various ulcers in leprosy	1 hour 30 min
	patients.	
5	1. To describe components of health education and	2 hours
	counselling to the patients of leprosy.	
	2. To describe criteria selection of patient for surgical	1 hour 30 min
	intervention.	
	3. To describe the pre-operative and post operative	
	management of leprosy patient.	
	4. Preparation for prevention of disability (POD) camp	1 hour

Post-test with discussion 1 hour

CURRICULUM FOR TRAINING PROGRAMME FOR PHYSIOTHERAPIST

DAY 1			
Educational objectives	Session contents and skills	Methodology	
Pre-test	-	30 min	
 To describe the epidemiology of leprosy. 	 Burden of disease with respect to prevalence of leprosy at global, national and state level. The interaction of agent host and environmental factors in causation of leprosy. Clinical symptoms Classification and management of leprosy. National Leprosy Eradication Programme. 	LECTURE DISCUSSION (1 hour)	
2. To describe the anatomy of upper limb.	 The origin insertion, nerve supply and action of the muscles at various joints of upper limb. Bones of upper limb, with special reference to small bones of hand. Motor and sensory nerve supply of the upper limb. Various deformities of upper limb seen in leprosy. 	LECTURE DEMONSTRATION (1 hour) CASE DEMONSTRATION for various deformities in leprosy. (30 min)	
3. To describe the anatomy of lower limb.	 The origin insertion, nerve supply and action of the muscles at various joints of lower limb. Bones of upper limb, with special reference to maintenance of arches of foot. Motor and sensory nerve supply of the lower limb. Various deformities of lower limb seen in leprosy. 	LECTURE DEMONSTRATION (1 hour) CASE DEMONSTRATION for various deformities in leprosy. (30 min)	

DAY 2

Educational objectives	Session contents and skills	Methodology
1. To describe the need of	1. The role of physiotherapy in	LECTURE
physiotherapy in leprosy	adjuvant treatment in leprosy and	DISCUSSION
	care of patients affected with	(1 Hour)
	leprosy.	
	2. DPMR activities in NLEP.	
2. To describe the sensory testing	1. Sensory testing	LECTURE
and voluntary muscle testing	2. Voluntary muscles testing in	DEMONSTRATION
	leprosy.	(1 hour)
3. To evaluate the preoperative	Pre-operative muscular strengthening	LECTURE
muscular strength and	techniques.	DEMONSTRATION
requirement of physiotherapy		(1 hour)

 To describe neuro-paralytic conditions of face among leprosy patients. 	Innervations and actions of muscles supplied by cranial nerves V th and VII th .	LECTURE DISCUSSION (1 hour)
Group discussion on specific issues of participants.		30 min.

DAY 3			
Educational objectives	Session contents and skills	Methodology	
1. To describe the physiotherapy modalities in leprosy patients.	 Physiotherapy modalities in Leprosy a. Wax bath b. Massage c. Exercises d. Splinting e. Electro-therapy f. Nerve simulative therapy etc. 	LECTURE DISCUSSION (1 hour) DEMONSTRATION (1 hour)	
2. To describe the post-operative physiotherapy applications for leprosy patients.	Selection and use of physiotherapy modalities in post-operative patients.	LECTURE DISCUSSION (1 hour)	
3. To demonstrate various exercises for POD	Various self exercises for Prevention of deformities	DEMONSTRATION (1 hour)	

DAY 4

Educational objectives	Session contents and skills	Methodology
1. To demonstrate the	1. Various splints used in leprosy.	LECTURE DEMONSTRATION
preparation of splints and plasters for patients affected by of leprosy.	2. Applications of these splints and plaster casts in the deformities cases of leprosy.	(1 hour) DEMONSTRATION (30 min)
2. To describe the role of physiotherapy in leprosy patients of lepra reactions and neuritis.	 Role of physiotherapy techniques in leprosy patients with lepra reactions. Physiotherapy applications in leprosy patients of neuritis. 	LECTURE DISCUSSION (1 hour) DEMONSTRATION (30 min)
3. To describe management of various ulcers in leprosy patients.	 5. Various types of ulcers in leprosy patients. 6. Management of ulcers by physiotherapy. 7. Surgical management of these ulcers. 	CASE DEMONSTRATION (1 hour) DEMONSTRATION (30 min)

DAY 5		
Educational objectives	Session contents and skills	Methodology
1. To describe components of	1. Basic concepts of health education.	LECTUREDISCUSSION
health education and		(1 hour)

counselling to the patients of leprosy.	 Components of counselling specific to leprosy. Home based self care and ulcer care practices. 	DEMONSTRATION (1 hour)
 To describe criteria selection of patient for surgical intervention To describe the pre- operative and post operative management of leprosy patient. 	 4. Criteria for patient selection for Reconstructive-surgery (RCS) 5. Components of pre-operative and post operative care of patients for RCS. 6. Various RCS procedures in leprosy patients. 	LECTUREDISCUSSION (1 hour) DEMONSTRATION (30 min)
4. Preparation for prevention of disability (POD) camp	7. Practical exercise for various aspects of arrangement of POD camps.	LECTUREDISCUSSION (1 hour)
Post-test with discussion	·	1 hour

5.6 CURRICULUM FOR TRAINING OF LABORATORY TECHNICIANS

Duration: 5 days

Day	Sessions	Duration
	Pre-test	30 min
1	To describe the common manifestation in Leprosy	2 hours
	To describe National Leprosy Eradication Programme	2 hours
	To discuss the skin smears in NLEP	1 hours
	To demonstrate slit skin smear technique.	4 hours
2	To calculate various indices in slit skin smear	2 hours
	To describe role of LTs in AMR surveillance	
	To demonstrate slit skin smear technique.	4 hours
3	To discuss Bacteriological characteristics of M. leprae	1 hour
	To describe management of laboratory wastes.	1 hour
	To demonstrate slit skin smear technique.	4 hours
4	To discuss preparation of various stains and reagents for slit	1 hour
_	skin smear for diagnosis leprosy.	
	To discuss applications molecular biology techniques in NLEP	1 hour
	To demonstrate slit skin smear technique.	4 hours
-	To demonstrate the various aspects in maintenance of quality of	2 hours
5	skin smears.	
	Post-test with discussion	1 hour

DETAILED SESSION WISE CURRICULUM FOR LABORATORY TECHNICIAN

<u>Day - 1</u>

Educational Objectives	Session Contents	Methodology
Pre-test		30 min
1. To describe the common	1. Common Signs and Symptoms of	LECTURE DISCUSSION
manifestation in Leprosy	Leprosy	(1 hour)
	2. Natural history and pathogenesis	0.4.07
	of leprosy	CASE
	3. Examination of Skin lesion nerve	DEMONSTRATION (1 hour)
	examination	
2. To describe National	4. Evaluation of NLEP and current	LECTURE DISCUSSION
Leprosy Eradication	5. Programme strategies.	(2 hours)
Programme	6. Epidemiological situation of	
	leprosy and factors affecting it	
3. To discuss the skin smears	7. To discuss the skin smears in the	LECTURE DISCUSSION
in NLEP	management of leprosy.	(1 hour)

<u>Day-2</u>

Educational Objectives	Session Contents	Methodology
To demonstrate slit skin smear	Sample collection, making smear,	Hands on training
technique.	staining, examination and reporting of	(4 hours)
	the slit skin smear	
To calculate various indices in	Calculation of BI and MI	LECTURE –
slit skin smear		DISCUSSION (1 hour)
To describe role of LTs in AMR	Specimen collection and transportation	Lecture,
surveillance	for AMR Surveillance	Demonstration
		(1 hour)

<u>Day 3</u>		
Educational Objectives	Session Contents	Methodology
To demonstrate slit skin smear	Sample collection, making smear,	Hands on training
technique.	staining, examination and reporting of	(4 hours)
	the slit skin smear	
To discuss Bacteriological	Bacteriology of M. <i>leprae</i>	LECTURE –
characteristics of M. Leprae		DISCUSSION (1 hours)
To describe management of	Principles and practice of management	LECTURE –
laboratory wastes.	of various laboratory wastes	DISCUSSION (1 hours)

<u>Day 4</u>		
Educational Objectives	Session Contents	Methodology
To demonstrate slit skin smear	Sample collection, making smear,	Hands on training
technique.	staining, examination and reporting of	(4 hours)
	the slit skin smear	
To discuss preparation of	Characteristics of good quality stains	LECTURE –
various stains and reagents for	and reagents	DISCUSSION

slit skin smear for diagnosis leprosy	Preparation of stains and reagents	(1 hour)
To discuss molecular biology techniques in NLEP	Isolation of genetic material of M. <i>leprae</i> . Sequencing and identification of organism.	LECTURE – DEMONSTRATION (1 hours)

<u>Day 5</u>		
Educational Objectives	Session Contents	Methodology
To demonstrate slit skin smear	Sample collection, making smear,	Hands on training
technique.	staining, examination and reporting of	(4 hours)
	the slit skin smear	
To demonstrate the various	Quality assurance of skin smears in	LECTURE –
aspects in maintenance of	leprosy	DISCUSSION (1 hours)
quality of skin smears.		
Post test with discussion		1 hour

5.7 CURRICULUM FOR TRAINING OF HEALTH SUPERVISORS (NMS/HE/HI/NMA/HA etc.)

		Duration: 5 days
Day	Sessions	Duration
	Pre-test	30 min
	1. Epidemiology of leprosy	3 hours
1	2. National Leprosy Eradication Programme	2 hours
	3. Roles and responsibilities of health supervisors	
2	1. Supervision and monitoring of NLEP activities	3 hours
2	2. Organization, conduction/supervision of IEC activities	2 hours
3	1. Field activities	5 hours
4	1. Case detection and treatment compliance activities in leprosy	2 hours
	2. Supervision of DPMR activities in the jurisdiction area	3 hours
	1. Recording and reporting in NLEP	2 hours
5	2. Inter sectoral coordination	1 hour
0	3. Management of special activities in NLEP	1 hour
	Post-test with discussion	30 min

DETAILED CURRICULUM FOR TRAINING OF HEALTH SUPERVISORS (NMS/HE/HI/NMA/HA etc.)

DAY 1: Epidemiology and NLEP D		ouration: 5 hours
Educational Objectives	Session Contents and Skills	Methodology
Pre-test		30 min
1. To describe Epidemiological pattern of leprosy.	 Incidence and prevalence of leprosy especially at local (state/district /block) level. 	LECTURE DISCUSSION (1 hour)
 To demonstrate clinical manifestations, diagnosis and classification of leprosy Differential diagnosis of skin lesions 	 Cardinal signs and symptoms of leprosy. General physical examination, examination of skin lesion, Sensory Testing, Voluntary Muscle Testing. Clinical diagnosis, classification and differential diagnosis of leprosy Applications of skin smears in leprosy 	CASE DEMONSTRATION (30 min) SLIDE SHOW for differential diagnosis (30 min)
4. Case management of leprosy in NLEP5. Management of lepra reactions	 Clinical management of leprosy. Management of lepra reactions. 	LECTURE DEMONSTRATION (demonstration of MDT)(1 hour)
6. To discuss specific issues in implementation of NLEP.	 Strategies and innovative interventions for area specific issues in NLEP. 	GROUP DISCUSSION (30 min) Presentation by 2-3 participants in their setting Innovative initiatives (if any)
Roles and responsibilities of	Health Supervisors	
To discuss job responsibilities of Health Supervisor in NLEP	 Overall supervision of NLEP activities in the jurisdiction. Ensure appropriate patient management in the field of work. Maintaining records and timely reporting. Coordination with VHSC, PRI etc. 	LECTURE DISCUSSION (1 hour)

DAY – 2. Supervision and monitoring of NLEP activities

Duration: 3 hours

Educational Objectives	Session Contents and Skills	Methodology
 To discuss supervision of various activities in NLEP. To prepare supervisory checklist. 	 Principles, skills and procedures for effective supervision. Supervision of case detection, treatment compliance and rehabilitation activities. 	LECTURE DISCUSSION (1 hour)

3. To discuss various	3. Suspect register, patient card, treatment	LECTURE
Records to be assessed by PHC MO	register, drug stock record, lepra-reactions, referral slips and referral registers,	DISCUSSION (1 hour)
4. To discuss various	disability register, prednisolone register etc.	
Reporting formats used at PHC level	4. Preparation of Monthly Reporting Format (MPR)	GROUP EXERCISE on model MPR
	5. Calculation and interpretation of various	(1 hour)
	programme indicators	

DAY – 2. Organization, conduction/supervision of IEC activities		(2 hours)
Educational Objectives	Session Contents and Skills	Methodology
1. To discuss IEC activity in the community and for leprosy affected persons.	Specific messages and channels for communications. Utilization of media for specific IEC.	LECTURE DISCUSSION (1 hour)
2. General principles for IEC organization and conduction.	Patient counseling and IEC.	ROLE PLAY (1hour) GROUP DISCUSSION

Day 3: Field visit

Duration: 5 hours

Ed	lucational Objectives	Session Contents and Skills	Methodology
1.	To supervise, monitor and evaluate NLEP activities in the	1. Visit to PHC/ Health Center for monitoring and	FIELD VISIT
2	field area. Provide practical field training	supervision of NLEP activities	(Visit to a Centre conducting NLEP activities
2.	in planning and	 Community based survey for early case detection 	e.g. DLO, organization of special activity e.g. School
	activities such as school survey,	3. IEC and stigma reduction	health Education programme, visit to
3.	house-to-house survey etc. To impart training on	activities for prevention and control of leprosy.	house visit for case
	implementation of social welfare measures for PAL.		detection activities etc.)

DAY - 4 Case detection and treatment compliance activities in leprosy

(2 hours)

Educational Objectives	Session Contents and Skills	Methodology
 To describe various case detection modalities in leprosy 	 Organization and conduction of health survey in high risk areas e.g. Migrants, Tribal, Brick kiln worker colonies etc. Organization of survey in congregation areas e.g. schools, Prisons etc. Conduction of household contact surveys e.g. for new MB and Child cases. 	LECTURE DISCUSSION (1 hour)

2. To ensure treatment compliance	 4. Key messages to be communicated to a person affected by leprosy and family members at different stages. 5. Defaulter retrieval mechanism. 6. Referral mechanism in NLEP. 	LECTURE DISCUSSION (1 hour)
GROUP DISCUSSION on case detection and treatment compliance(1 hour)		

DAY – 4 Supervision of DPMR activities in the jurisdiction area (3 hours)

Educational Objectives	Session Contents and Skills	Methodology
To supervise DPMR	1. DPMR services in NLEP.	LECTURE-DISCUSSION
services under NLEP		(1 hour)
Community based rehabilita	ation	1 hour
1. To discuss various	2. Rehabilitation and its types	LECTURE DISCUSSION:
rehabilitative needs for	3. Assessment of rehabilitative needs	Rehabilitation
PAL.	of the PAL	programme and facilities
2. To describe procedure	4. Organization of rehabilitation	available for disabled
of organizing	services for disabled	people
rehabilitation	5. Facilities available for Community	
programme for leprosy	based rehabilitation of leprosy	
affected in the	affected persons under health	
community	system and other ministries like	
3. To discuss methods of	MOSJ and E /other NGOs/ Civil	
integrating and	bodies	
coordinating with	6. Procedure of coordination with	
organizations providing	other organizations providing	
rehabilitative services	specialized services for	
for other debilitating	rehabilitation of PAL and with those	
diseases for benefit of	for other debilitating diseases.	
PAL	7. Social welfare schemes for LAPs	

DAY 5 Management of specific issues in NLEP

(4 hours)

Recording and reporting in NLEP				
Educational Objectives Session Contents and Skills		Methodology		
 To discuss various Records to be assessed by PHC MO To discuss various Reporting formats used at PHC level 	 Suspect register, patient card, treatment register, drug stock record, lepra-reactions, referral slips and referral registers, disability register, prednisolone register etc. Monthly reporting format (MPR) 	LECTURE DISCUSSION (1 hour) GROUP EXERCISE (on model MPR) (1 hour)		
Inter-sectoral coordination	Inter-sectoral coordination			
1. Discuss co-ordination at various levels (Intra and Inter-sectoral)	 Coordination of NLEP activities with DNT Inter-sectoral coordination of NLEP activities with PRI including Village Health and Sanitation committee etc. 	LECTURE DISCUSSION (1hour)		
Management of special activities in NLEP				

 To describe preparing PIP. To discuss planning and implementation of special activities in NLEP. 	 Preparation of annual action plan and PIP. Vulnerability mapping and planning and implementation of active case detection 	LECTURE DISCUSSION (1hour)
Post – Test with discussion		30 min

5.8 CURRICULUM FOR TRAINING OF HEALTH WORKER AT PHC/HSC (ANM/MPW/Jr.HA etc.) Duration: 5 days

I.		Durucióni o uuy
Day	Sessions	Duration
	Pre-test	30 min
1	1. Epidemiology of leprosy	3 hours
	2. National Leprosy Eradication Programme	2 hours
	1. IEC and counseling	2hours
2	2. Case detection and treatment compliance activities in	3 hours
	leprosy	
3	2. Field activities	5 hours
4	1. Providing DPMR services in the jurisdiction area	3 hours
4	2. Social rehabilitation	2 hours
5	4. Management of specific issues in NLEP	4 hours
	Post-test with discussion	30 min

Detailed Curriculum for Training of Health workers at PHC/HSC(ANM/MPW/Jr. HA etc.)

(30 min)

DAY 1: Epidemiology of leprosy and introduction to NLEP		(5 hours)
Educational Objectives	Session Contents and Skills	Methodology
Pre-test		(30 min
1. To describe Epidemiological	1. Situational update of leprosy	LECTURE
importance of leprosy.	especially at local level.	DISCUSSION
2. To describe NLEP strategies	2. NLEP strategies to eliminate	(1 hour)

2. To describe NLEP strategies	2. NLEP strategies to eliminate	(1 hour)
to eliminate leprosy.	leprosy.	
3. To describe clinical	3. The common signs and symptoms of	CASE
manifestations, diagnosis	leprosy.	DEMONSTRATION
and classification of leprosy.	4. General physical examination,	(1 hour)
4. To differentiate conditions	examination of skin lesion, Sensory	SLIDE SHOW for
resembling leprosy.	Testing, Voluntary Muscle Testing.	differential diagnosis
	5. Clinical diagnosis, classification and	(1 hour)
	differential diagnosis of leprosy	
	6. Identification of suspects of leprosy.	

5. Case management of leprosy	7. Clinical management of leprosy.	LECTURE
in NLEP	8. Identification of lepra reactions and	DEMONSTRATION
6. Identification and referral for	referral.	(with demonstration
lepra reactions		of MDT) (1 hour)
7. To discuss specific issues in	9. Strategies and innovative	GROUP DISCUSSION
implementation of NLEP.	interventions for area specific issues	(30 min)
	in NLEP.	Presentation by 2-3
		participants in their
		settings in innovative
		problem-solving
		initiatives
Roles and responsibilities of H	ealth Supervisors	
8. To discuss job	10. Impart Health Education to	LECTURE
responsibilities of Health	community.	DISCUSSION
worker in NLEP	11. Suspect leprosy cases and refer	(1 hour)
	them to PHC.	
	12. Ensure MDT compliance and assist	
	health supervisor in retrieval of	
	absentee/defaulter.	
	13. Updation of patient cards and	
	treatment register.	
	14. Assist PAL in self care practices,	
	monitor them and refer them to	
	PHC when ever required.	

DAY - 2. IEC and Patient counseling

Duration: 2 hours

E	ducational Objectives		Session Contents and Skills	Methodology
1.	Discuss role of health care facility in combating stigma and discrimination due to leprosy	1. r f 2.	Key messages to generate awareness regarding leprosy linkages with NRHM or implementation of IEC activities. Contents, channels and feedback in patient counselling.	LECTURE DISCUSSION (1 hour)
2.	Discuss the modalities of counselling leprosy patient at various stages of treatment	3. 4. 5.	Counselling at the start of MDT Counselling on treatment completion Counselling of PAL family	ROLE PLAY (Annex.5) (1 hour)

DAY – 2 Case detection and treatment compliance activities in leprosy 3 hours

Educational Objectives	Session Contents and Skills	Methodology
1. To describe various case	1. Organization and conduction of health survey in	LECTURE
detection modalities in	high risk areas e.g. Migrants, Tribal, Brick kiln	DISCUSSION
leprosv	worker colonies etc.	(1 hour)
- r 5	2. Organization of survey in congregation areas	
	e.g. schools, Prisons etc.	

	3. Conduction of household contact surveys e.g. for new MB and Child cases.	
2. To ensure treatment	4. Key messages to be communicated to a person affected by leprosy and family members at	LECTURE DISCUSSION
compliance	different stages.	(1 hour)
	5. Defaulter retrieval mechanism.	
	6. Referral mechanism in NLEP.	
GROUP DISCUSSION on case detection and treatment compliance (1 hou		

Day 3: Field visit

Duration: 5 hours

Educational Objectives	Session Contents and Skills	Methodology
1. To supervise, monitor and evaluate NLEP activities in the	1. Visit to PHC/ Health Center for monitoring and	FIELD VISIT (Visit to a Centre conducting NLEP activities
2. Provide practical field training in planning and implementation	activities. 2. Community based survey	e.g. DLO, organization of special activity e.g. School
of specific activities such as school survey, house-to-house	for early case detection. 3. IEC and stigma reduction	programme, visit to leprosy colony, house-to-
3. To impart training on implementation of social welfare measures for PAI	and control of leprosy.	detection activities etc.)

DAY – 4 Providing DPMR services in the jurisdiction area 3 hours

Educational Objectives	Session Contents and Skills	Methodology
1. To discuss DPMR	1. Various DPMR services under NLEP.	LECTURE-DISCUSSION
services under NLEP.		(1 hour)
Community based rehabil	itation	2 hours
2. To discuss various	2. Rehabilitation and its types	LECTURE DISCUSSION:
rehabilitative needs for	3. Assessment of rehabilitative needs	Rehabilitation
PAL.	of the PAL	programme and
3. To describe procedure	4. Organization of rehabilitation	facilities available for
of organizing	services for disabled	uisableu people
rehabilitation	5. Facilities available for Community	
programme for leprosy	based rehabilitation of leprosy	
affected in the	affected persons under health	
community	system and other ministries like	
4. To discuss methods of	MOSJ and E /other NGOs/ Civil	
integrating and	bodies	
coordinating with	6. Procedure of coordination with	
organizations providing	other organizations providing	
rehabilitative services	specialized services for	
for other debilitating	rehabilitation of PAL and with those	
	for other debilitating diseases	

diseases for benefit of	
PAL	

Social Rehabilitation of leprosy patients		2 hours
Educational Objectives	Session Contents and Skills	Methodology
5. To discuss referrals and cross notification in NLEP	7. Appropriate referrals of various cases at PHC under NLEP.	LECTURE-DISCUSSION (1 hour)
6. To discuss various social welfare schemes for leprosy patients.	 8. Centrally sponsored schemes for leprosy patients. 9. State specific social security schemes. 	LECTURE-DISCUSSION (1 hour)

DAY 5 Management of specific issues in NLEP

Recording and reporting in NI	LEP 2 hours	
Educational Objectives	Session Contents and Skills	Methodology
1. To enlist various Records to	1. Suspect register, patient card, treatment	LECTURE
be assessed by PHC MO	register, drug stock record, lepra-reactions,	DISCUSSION
2. To discuss various	referral slips and referral registers, disability	(1 hour)
Reporting formats used at	register, prednisolone register etc.	GROUP
PHC level	2. Monthly reporting format (MPR)	EXERCISE (On model MDD)
		(1 hour)
Inter-sectoral coordination	1 h	
1 Discuss co-ordination at	1 Coordination of NLEP activities with DNT	IFCTURE
1. Discuss co or unation at	2. Lutan as stand as and in atting of NILED satisfies	DISCUSSION
various levels (Intra and	2. Inter-sectoral coordination of NLEP activities	(1hour)
Inter-sectoral)	with PRI including Village Health and	(Inour)
	Sanitation committee etc.	
Management of special activit	ies in NLEP 1 ho	our
1. To describe assist	1. Preparation of annual action plan and PIP	LECTURE
supervisor in planning and	etc.	DISCUSSION
implementation of NLEP	2. Vulnerability mapping and planning &	(1 hour)
activities.	implementation of active case detection	
2. To discuss planning and		
implementation of special		
activities in NLEP.		
Post –Test with discussion		30 min

5.9 CURRICULUM FOR TRAINING OF ASHAs Duration: 2 days

Day	Sessions	Duration
	Pre-test	30 min
	1. What is leprosy and NLEP?	3 hours
	2. Common symptoms of leprosy and lepra reactions	
1	3. Treatment of leprosy and maintaining compliance	
	4. Prevention of Disability (Self-care and physiotherapy)	
	5. Social schemes for leprosy patients	
	6. Role of ASHA in NLEP	
	1. Reduction of Stigma and prevention of discrimination against	1 hours
	leprosy (Do's Don'ts)	
	2. Conduction of household survey with emphasis on	2 hours
2	interpersonal communication	
	3. Facilitating community perception by appropriate	1 hours
	communication	
	Post-test with discussion	30 min

Detailed session wise curriculum for training of ASHAs

DAY - 1 Programmatic management of leprosy

Educational Objectives	Session Contents and Skills	Methodology
Pre-test		30 min
Orientation on programmatic management of leprosy.	 What is leprosy and NLEP? Common symptoms of leprosy and lepra reactions 	PICTORIAL PRESENTATION (1 hour)
	3. Treatment of leprosy and maintaining compliance	and
	 Prevention of Disability (Self-care and physiotherapy) 	CASE DEMONSTRATION
	5. Social welfare schemes for leprosy patients and their families	(2 hours)
	6. Role of ASHA in NLEP	
Self-activity listing of un	(30 min)	

DAY - 2 Communication with the community

Educational Objectives	Session Contents and Skills	Methodology		
Reduction of stigma and discrimination against leprosy	What is stigma and discrimination? Communicating with community for reduction of stigma and prevention of discrimination against leprosy.	LECTURE DISCUSSION (1 hour)		
Conduction of household survey with emphasis on interpersonal communication	Planning and organization of house-to- house survey. Identification and management of suspects	GROUP DISCUSSION & ROLE PLAY (2 hours)		
Facilitating community perception by appropriate communication	Frequently asked questions	ROLE PLAY (1 hour)		
Post test (30 min)				

CHAPTER: 6 TRAINING EVALUATION

It is imperative to evaluate the short term effects and long term gains of any training programme to update the knowledge and expected performance up-gradation with respect to the changing programme strategies. This is especially important for the National Leprosy Eradication Programme addressing a chronic disease (leprosy) having wide spread stigma prevalent in the community.

The most widely used training evaluation method is the one provided by Donand Kirkpatric in 1959 and 1998 to assess the effects and impact of training programme at four different levels. These levels are arranged in the order of improvement in the desired work output by the individual due to training.

Level	Component	Objective measure
Ι	Reaction	Participants satisfaction
II	Learning	Change in knowledge, skills and attitudes of the participants
III	Behaviour	Measuring the behavioural change in the participant
IV	Results	Assessing the impact of the training

Assessment of performance of training programme in reference to NLEP

Level-I: REACTION

The assessment of immediate effect of the training programme that need to be evaluated during or immediately after the training session.

This will be ensured by providing a session evaluation checklist after each session in the training.

This can be implemented at two levels

- o Immediately after each session separately
- At the end of the day separately for each session / combined as per the objectives of the day's schedule

Model session evaluation sheet

Date and Time of the session : Topic / Title: Faculty:

A. Objective evaluation:

Questions		F	Respor	ise	
	Very poor (1)	Poor (2)	Average (3)	Good (4)	Very good (5)
Торіс	1	1			
The topic was relevant to me					
The topic was relevant to its contents					
The presenter					
Appropriate knowledge of the presenter					
Clarity in the presentation					
The contents		-	-		
The contents of the presentation was appropriate					
The contents were adequately covered					
Participant interaction		-	-		
Aroused interest of the participant					
Allowed participant questions					

B. Qualitative evaluation:

Enlist two best things of the session, you like most?

.....

Enlist two important things you suggest for improvement?

C. Overall evaluation

Grade the overall performance of the presentation on 1-5 scale as above.

Very poor	Poor	Average	Good	Very good
1	2	3	4	5

The evaluation is to be used for assessment of the session for further improvement.

Level-II: LEARNING

This type of evaluation is commonly performed by pre/post-test evaluation. A framed set of questions are put forth to the participants before they are exposed to any of the course content. This is pre-test evaluation. Pre-test evaluation provides valuable information about the status of knowledge and attitudes of the participants before attending the training programme. Then they are exposed to the training as per the schedule. At the end of the course, the same set of questions are provided again to the participants and their scores are

tallied to assess the performance of the training programme with respect to the knowledge and perception/attitudes of the participant.

Following is the checklist for pre/post-test evaluation of the training programme to assess the performance of the programme.

- 1. The pre/post-test evaluation is to be done for assessment of the training programme and should never be viewed as the performance of the participant.
- The pre/post test questions should be alike and it should not differ, so as to evaluate the performance of individual trainee based on their performance before and after the training programme.
- 3. The pre/post test questions should contain proportional representation of the course contents. Such questions can be derived from the curriculum contents as provided in the training design component of this document.
- 4. The pre/post test questions should preferably be in the form of multiple choice questions (MCQ). These questions should be pretested and validated for quality and contents. Item analysis should be performed for the set of questions being used in the questionnaire.
- 5. The pre/post test questions should be based on the contents taught in the session, however some logical interpretations out of the didactic sessions can be expected but number of such questions should be only a few.
- 6. The questions in the pre/post-test questionnaire need to be updated frequently. 10% revision of the questions according to the operational programme modifications being done time to time can be adjusted in the course contents as well as in the evaluation formats.

Many times it is felt that the participants should learn everything. Unfortunately it is not possible to learn everything! Knowledge of human body and medicine, understanding of traditions and ways of behaving in a society, skills in administration and in educational methods are all relevant to health care staff. Learning all that is known in all of these fields would be beyond the scope of the most able student in the largest course. Therefore, the choice has to be made about what details should be left out of the course. It is simply not possible to learn everything that is known about medical sciences and health care. So some selection is essential.

The content evaluation of any session need to be designed based upon:

- 1. Work profile of the participant in the implementation of the programme.
- 2. The expected level of improvement from the participant

To fulfil the above needs, the technical content evaluation sheet require to be covering the must know, desirable to know and nice to know topics in appropriate proportions. The contents of any training session should address the need of the participants. 70% proportion of the content evaluation sheet should contain the basic programme expectation from the participant, which is the most important expected gain from the participant.



Proportionate Contents of the evaluation sheet

Level-III: BEHAVIOUR

To assess the behaviour change in the participants of the training programme, they should be allowed to work in their specified location and position. The performance of the worker in the field after the training programme can also be assessed by an assessment questionnaire. Such evaluation should be preferably carried out after 6-12 months of the training programme. The behaviour change assessment can only be performed with the cooperation from the supervisor of the person to be evaluated. To avoid subjective bias in the assessment of the behaviour change in the training participant supervisors of the trainee can be blinded by the exact questions of evaluation. But the assessment of effectiveness of the training programme should invariably include the supervisor's perception about the individual's performance before and after the training programme in a positive manner.

Such evaluation can be performed based on several activities of the health personnel such as case finding activities, treatment compliance, DPMR activities etc.

Behavioural performance assessment can be done in two stages.

Stage 1.Self-assessment of the performance: In this evaluation the individual is asked to assess his/her own performance with respect to contribution to various components of the programme. E.g. case finding, ensuring treatment compliance, stigma reduction in the community, patient education for self-care etc. this set of activities are pre designed into as

per known enlisted components of the programme individual contribution to this activity is asked to note.

Stage 2. Assessment by the supervisor: The assessment of the performance of an individual with respect to the self-assessment of the contribution towards various programme components. To avoid subjective bias the performance of several other individuals (employees) also can be asked.

The common observations between the self-assessment and supervisor's assessment are enlisted and graded for further evaluation.

The pre and post training behavioural change can be noted and assessed for further evaluation of training. The requirement of training of an individual can be assessed based on the performance, weaker areas need to be identified and improved subsequently.

Level-IV: RESULT

The ultimate impact of the training programme can also be assessed in the form of several indicators. This type of evaluation should be carried out every 6-12months. Performance of the trainees field area can be assessed by various indicators such as number of cases detected before the training and 6-12 months after the training, proportion grade II deformities among newly detected cases, proportion of child cases among new cases detected, proportion of MB among new cases. Initially these cases may increase due to detection of more cases due to training of the individual but eventually over a period of 12-24 months the number of cases detected should decrease. Service components also will be increased such as number of special activities conducted, number of RCS performed, number of training of subordinate staff etc. the implementation of innovative approaches for addressing specific field level problems required to be identified and appraised accordingly.

The government of India institutions such as CLTRI and RLTRI will assess the level III and level IV performance, while level I and level II performance need to be assessed at the respective training sites. The formats for the evaluation at the institution level should be in consultation with the training team as listed above.

CHAPTER: 7 TRAINING NEEDS ASSESSMENT IMPLEMENTATION PLAN

IDENTIFICATION OF RESOURCES:

The resource mapping need to be done based on the available resources. The trained manpower will be categorized at the regional level to be made available for the training at various levels. There will be mapping of trainers and required trainees to be trained. The trainees to be trained will be derived from input received from State Leprosy Officers of each state. Based on the feedback of the state the number and type of training will be decided.

The committee proposed development of core training team to be pooled from database of national trainers, trainers available at Govt. of India Leprosy Institutes (CLTRI & RLTRIs) and those from the office of the regional directors. Also the involvement of medical colleges in the states should be considered based on the available expertise resources.

Manpower 🤇

Trainers

Trainees

Institutional mapping for training implementation

Level of training	Core Trainers	Trainees	Institutes (Venue)
State/Regional	National Trainers +	SLO, DLO, DLC, RCS	GOI Leprosy institutes
	GOI Leprosy	surgeons, Lab., Tech.,	State Training Cell
	Institutes + SRD	Physio. Tech. and	Medical Colleges
		specialists	
District	SLO, SLC, DLO, DLC	BMO, MO, NMS,	Dist. Training Cell
		Pharmacists, HI, HE	Dist. HFW officer
Block	DLO, DLC, Block MO	PMW ASHA	Block PHC

TRAINING IMPLEMENTATION PLAN

The implementation of trainings according to training needs assessment will be performed with following steps.

- 1. Formation of resource database (Resource Mapping)
- 2. Standard training manuals
- 3. Preparation of training calendars
- 4. Training evaluation (Immediate / Long term)

1. Formation of Database:

Information required from state: The information required for resource mapping will be acquired from the states for further planning and implementation.

The resource mapping include institutions for conduction of institutional training, the expert manpower as faculties and the facilities such as hospital / patients, instruments and equipments, AV aids, IEC material etc.

	1		
Institutions in the state	Facilities available	Type of activities	Address
	(Hospital /patients, AV	performed (Training,	
	aids, IEC material,	Clinical, RCS,	
	equipment etc)	Other)	
National level institutes with lepro	bsy training component		1
1.			
2.			
State/Regional Level Institutes			
1.			
2.			
NGO Institutes		-	-
1.			
2.			
District level institutes (training co	ell)		
1.			
2.			

a. Institutional framework available with the state

b. Manpower resource (Trainers) (Database)

The resources will be mapped based on members required for national level pool of trainers with representation from each state/region (National trainers). State / Regional and District level trainers need to be identified by the states and mapped as follows.

Level	Number	Designation,	Contact	Contribution
	available	Qualification and	details	to NLEP
		Topic of		
		expertise		
State level trainers	I	1	1	
1 (SLO)				
2 (SLC)				
3 (Any other resource)				
District level trainers (No. of Dist)	·		·	
1 (DLO)				
2 (DLCs)				

3 (Any other resource)						
Blocks level trainers (Total No. of Blocks:)						
1. Block MOs						
2. Other MOs						
3 (Any other resource)						

c. Mapping of the trainees

The mapping of the trainers required to imparted training will be prepared by the state according to training need assessment. The training requirements need to be prepared separately for freshers and for Re-freshers. The state has to maintain database on training status of each of the SLO, SLC, Similar database should be maintained at district and block level for example for each MO PHC, etc as per the format below. A consolidated database with online accessibility at the respective levels need to be maintained and updated regularly may be developed as one of the modules under *Nikushth*.

Level		Designation	Office	Contact No.	Training status, year and
					duration of last training
State					
•	SLO				
•	SLC				
•	DLO				
•	DLC				
•	RCS surgeons				
•	Lab., Tech				
•	Physio. Tech.				
•	Other Specialists				
Distric	ct				
•	BMO				
•	MO PHC				
•	NMS				
•	Pharmacists				
•	HI				
•	HE				
•	Any other()				
Block					
•	PMW				
•	ASHA				
•	Any other				

2. <u>Standard training material:</u>

The standard training manuals for key functionaries updated in 2019 have been provided to respective SLOs for further distribution. The modification in terms of translation into local language and other requirements at local level need to be done only in concurrence with CLTRI/CLD.

Following standardized training manuals to be used for all training activities under NLEP and are freely available on CLD/CLTRI's websites.

- 1. Training manual for medical officers
- 2. Training manual for health supervisors
- 3. Training manual for physiotherapists
- 4. Training manual for laboratory technicians

The faculty power point presentations and evaluation formats required to be sent to CLTRI for standardization. The presentations need to be simple understandable language and with short titles. Relevant and appropriate literature material may be used as recommended by the Central Leprosy Division. The guidelines and resource material is available on the websites of CLD (www.nlep.nic.in) as well as CLTRI (www.cltri.gov.in). Following training material need to be sent to CLTRI for standardization:

- I. Faculty Presentations
- II. Pre / Post Test Questionnaire

3. <u>Preparation of Annual Training calendars for different levels of healthcare</u> <u>workers</u>

Based on the available resources and required manpower to be trained, a training calendar should be prepared by the state under intimation to the Central Leprosy Division and CLTRI. The training calendar may be displayed at all relevant websites and be disseminated in sufficient numbers at appropriate levels.

Level	Training schedule				
	Frequency	Topic	Trainer/s	Methodology	Resources
	of training				required
State					
SLO	6 Monthly (Dates to				
SLC					
DLO					

Template for preparation of training calendar

DLC	be		
RCS surgeons	provided)		
Lab., Tech			
Physio. Tech.			
Other Specialists			
District			
ВМО			
МО РНС	Quarterly (Dates to be		
NMS			
Pharmacists			
HI			
HE	provided		
Any other ()			
Block			
PMW	Monthly /		
ASHA	Once in		
Any other	two		
	months		

4. Training evaluation

Immediate outcome (Effect of training):

The immediate outcome consists of effect of training on short term performance on the basis of cognitive assessment. Where ever possible there should be incorporation of evaluation of skills for the technical activities, such as evaluation of skill of collection and examination of slit skin smear for leprosy. The pre test should be conducted for assessment of baseline knowledge and focus required on some specific subject/topic. The same questionnaire tool should be used for subsequent assessment at the end of the training. The percentage learning gain (% difference between pre-test and post-test scores) to be assessed at the end of the activity based on the pre-test and post test questionnaire.

Follow up assessment (Impact of training):

The impact of training need to be assessed based on the post training performance into the trainees own workplace. This assessment can be assessed every 2-5 years.

Some templates for indicator based assessment of impact of training are provided as follows.

Trainee	Indicator	Mode of evaluation
SLO	 Training: Whether participated as faculty in training programme in last 6 months? PIP: Compilation of pending PIP in last 6 months? Monitoring: Carried out monitoring of districts in last 6 months? Performance indicator: Improvement in early case detection/DPMR/RCS in last 6 months? Novel initiative: Significant initiative/innovation for management of PAL? 	20% weigh- tage to each achievement

Impact assessment template cont'd

Trainee	Indicator	Mode of
		evaluation
SLC	 Training: Whether participated as faculty in training programme in last 6 months? NLEP managerial issues: Whether assisted SLO in managerial issues in NLEP in last 6 months? Monitoring: Whether significant improvement in NGO services in last 6 months? Performance indicator: Improvement in Case detection (DPMP /PCS in last 6 months? 	20% weigh- tage to each achievement
	5. Novel initiative:Significant initiative for implementation of NLEP?	
DLO	 Training: Whether participated in training programme in last 6 months? PIP: Whether significant achievement in PIP in last 6 months? Monitoring: Monitored at least five health facilities in last 6 months? Performance indicator: Improvement in Case detection/DPMR/RCS in last 6 months? Novel initiative: Significant initiative for implementation of NLEP? 	20% weigh- tage to each achievement
DLC	 Training: Whether participated in training programme in last 6 months? NLEP managerial issues: Whether assisted DLO in managerial issues in NLEP in last 6 months? Monitoring: 	20% weigh- tage to each achievement

	Whether carried out monitoring of districts in last 6 months?	
	4. Performance indicator:	
	5. Novel initiative:	
	Significant initiative for management of PAL?	
RCS	1. No. of major RCS performed in last 6 months?	50% weigh-
surgeons	2. No. of minor RCS performed in last 6 months?	tage to each
		achievement
Trainee	Indicator	Mode of
		evaluation
Lab.,	1. No. of SSS performed in last 6 months?	50% weigh-
Tech		tage to each
		achievement
Physio.	1. No. of minor DPMR cases assessed?	50% weigh-
Tech.	2. No. of leprosy patients provided physiotherapy?	tage to each achievement
МО	1. Training tasks:	
	Whether organized training programme in last 6 months? 2. Clinical tasks:	
	No. of leprosy suspects examined in last 6 months?	
	3. Managerial tasks:	20% weigh-
	Monitored at HSC in last 6 months?	achievement
	4. Performance indicator:	
	Improvement in Case detection/DPMR/RCS in last 6 months? 5. Novel initiative:	
	Significant initiative for implementation of NLEP?	
NMS	1. No of supervisory visits to the HSC in last 6 months?	
	2. No. of active survey conducted in last 6 months?	2006 woigh
	3. No. of suspects examined in last 6 months?	tage to each
	4. No. of visits to patient under treatment / RFT cases in last 6 months?	achievement
	5. No. of visits to NGO facilities in last 6 months?	
PMW	1. No. of suspected leprosy cases identified in last 6 months?	
	2. No. of IEC sessions conducted in last 6 months?	
	3. Proportion of cases completing treatment in time?	20% weigh-
	4. No. of RFT cases ensured DPMR and RCS services in last 6	achievement
	month?	
	5. No. of active case detection surveys conducted in last 6 months?	
ASHA	1. No. of community based IEC activities conducted in past 3 months?	
	2. No. of suspected persons brought to PHC for evaluation?	20% weigh-
	3. No. of RFT cases brought to PHC for DPMR/RCS services?	tage to each
	4. Proportion of patients completed treatment in time?	achievement
	5. No. of RFT cases demonstrated self care practice?	

CHAPTER: 8

REFERENCES

- 1. http://Karhfw.gov.in/nrhm/NLEP/Final%20Guidelines%20for%20BLCC%20-%202014.docx.
- 2. Kumar A, Hussain S. The burden of new leprosy cases in India: A population based survey in two states. Tropical Medicine ISRN. 2013. Available from http://www.hindawi.com/journals/isrn/2013/329283.
- 3. Katoch K, Aggarwal A, Yadav VS, Pandey A. National sample survey to assess the new case disease burden of leprosy in India. Indian J Med Res. 2017 Nov;146(5):585-605. doi: 10.4103/ijmr.IJMR_1496_16.
- 4. Training Manual for Medical Officers: Central Leprosy Division, Directorate General of Health Services, Ministry of Health & Family Welfare, Govt of India, Nirman Bhawan, New Delhi. Singh A. Internal Evaluation of National Leprosy Elimination Program in Tribal Gujarat. Indian J Community Med 35(1):2015.
- 5. Central Leprosy Division, New Delhi and Central Leprosy Teaching & research Institute, Chengalpattu. Training Manual for Medical Officers 2019.
- 6. Central Leprosy Division, New Delhi and Central Leprosy Teaching & research Institute, Chengalpattu. Training Manual for Laboratory Technicians 2019.
- 7. Central Leprosy Division, New Delhi and Central Leprosy Teaching & research Institute, Chengalpattu. Training Manual for Health Supervisors 2019.
- 8. Central Leprosy Division, New Delhi and Central Leprosy Teaching & research Institute, Chengalpattu. Training Manual for Physiotherapists 2019.
- 9. World Health Organization. Global strategy to national action: Facilitator guide 2007. Regional Office for South-East Asia, World Health House, Indraprastha Estate, New Delhi, India.
ANNEXURE: 1

ROLE PLAY: Patient counselling at the time of diagnosis*

It is observed that examination of a person to detect leprosy, even though it is thought to be aware by all, needs to be demonstrated during the training to bring the quality and completeness of examination of patient especially during case detection activity.

Also it is felt imperative to demonstrate the advice and counseling that is to be imparted to the patient for improving treatment compliance and acceptance of the cure because unlike other diseases the sign and symptoms remains in most of the cases even after the treatment is completed. This technique can be most effectively imparted through a session of role play (a virtual demonstration of educating patients about the course of the management).

First, all participants assign a patient and a health worker's role, then help to build these characters:

- Divide the participants into two groups.
- Seat each group in a semi-circle around an empty chair.
- Then instruct the participants that they are to build a character of a new leprosy patient imagine a person sitting in the empty place (give examples such as: they have to collect details such as age, family situation, working situation (but don't give too much information); it is important that the character is their own creation).
- Whatever a participant says must be accepted by the others, there is to be no discussion or argument, so whatever is said about the person is accepted ... (like the rules for brainstorming).
- When you feel that enough information has been given, stop the exercise.
- Now tell the participants that one member of the group must be willing to become that person.

After the character of the patient has been built, invite one member of the group to impart health education to the patient.

Instruct the other members of the group (the patient-elect and the observers) to leave the room for about 5 minutes to allow the health educator to prepare the interview with the patient.

Give two handouts:

- I. A list with points of attention to the health educator to help his/her memory.
- II. A checklist to the observers of the health education session.

I. A list with points of attention to the health educator to help his/her memory It is necessary to provide the patient with the following information:

- 1. Where to get answers about leprosy
- 2. That leprosy is not infectious to others once treatment has started
- 3. That leprosy can be treated
- 4. That treatment for leprosy is free
- 5. That treatment is for 6 or 12 months
- 6. On tablets to be taken at home
- 7. On side-effects
- 8. On when to get the next blister pack
- 9. That arrangements for collection of blister packs may be adjusted to suit his/her situation
- 10. That skin patches take time to disappear
- 11. About the major reaction symptoms and the need to report to the clinic if they arise
- 12. That complications can occur and that the patient should come to the clinic or to the referral clinic (and where is it)
- 13. That treatment is available if new disabilities occur
- 14. That existing disabilities might or might not improve
- 15. That in case of disability the patient may have to adapt[?or alter] his/ her lifestyle

The patient should be encouraged to lead a normal life.

*Adapted from: Facilitator guide - Workshop for health service managers in charge of leprosy control programme from global strategy to national action 2007. Regional Office for South-East Asia, World Health House, Indraprastha Estate, New Delhi, India⁹.

ANNEXURE: 2

Checklist for observers of the patient education session

Content/method	Very poor	Poor	Good	Very good
Messages are clear				
Communication is spontaneous				
Listening by the educator				
Sharing emotions				
Information on where to get answers about				
leprosy				
Information that leprosy can be treated				
Information that treatment is for 6 or 12 months				
Information on side-effects				
Information on tablets to be taken at home				
Information on when to get the next blister pack				
Information that treatment for leprosy is free				
Information that leprosy is not infectious to				
others once treatment has started				
Information that skin patches take time to				
disappear				
Information about the major symptoms of				
reaction and the need to report to the clinic if				
they arise				
Information that treatment is available if new				
disabilities occur				
Information that existing disabilities might or				
might not improve				
Information that complications can occur and the				
specific action to be taken				
Encourages the patient to lead a normal life				

At the end of the session, the completed form should be handed over to the facilitator.

List of Contributors

I. Training Need Assessment Group:

- 1. Dr. M.K. Showkath Ali, (Chairman), Former Director, Central Leprosy Teaching and Research Institute, Chengalpattu
- 2. Dr. V. Santaram, (Member), Director, Regional Training and Research Institute, Aska (Orissa)
- Dr. B.C. Mandal, (Member), Director, Regional Training and Research Institute, Gouripur (West Bengal).
- 4. Dr. Sunil Gitte, (Member), Deputy Director, Regional Training and Research Institute, Raipur (Chhatishgarh).
- 5. Dr. Mannan Ebenzer, (Member), Director, Schieffelin Institute of Health-Research and Leprosy Centre, Karigiri (TN).
- 6. Dr. Loretta Das, (Member), Dy. Director, The Leprosy Mission Hospital, Naini (UP).

II. Co-ordination & Compilation:

- 1. Dr. V. C. Giri, Joint Director, PHO, Mumbai; Formerly Dy. Director (Epid), CLTRI, Chengalpattu
- 2. Dr. Vijay Bhagat, Dy. Director (Epid), CLTRI, Chengalpattu
- 3. Dr. Shubhangi Baviskar, Dy. Director (Epid), CLTRI, Chengalpattu

Editing: Dr. Vineet K. Chadha, Director, CLTRI, Chengalpattu Dr. Megha Pravin Khobragade, ADG (Leprosy), DGHS, New Delhi