

**Session 4: Confirmation of leprosy and clinical examination of leprosy affected person**

*Duration: 240 min*

**Training objectives:**

After completing this session participants will be able to:

1. Enlist the common symptoms/ complaints that help providers to suspect leprosy
2. Elicit cardinal signs for confirmation of leprosy
3. Discuss grading of disability
4. Assess treatment needs of leprosy disabled person
5. Appreciate the complexity of diagnosis and need for referral

**Session content:**

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| 1. Common symptoms and signs of the disease to suspect leprosy | - 10  |
| 2. Eliciting Cardinal signs for confirmation of leprosy        | - 15  |
| 3. Assessment of leprosy affected person                       | - 20  |
| 4. Classification of leprosy into PB and MB                    | - 15  |
| 5. Grading of Disability                                       | - 10  |
| 6. Differential diagnosis of leprosy                           | - 20  |
| 7. Hands on training & discussion                              | - 150 |

**Skills to be learnt:**

1. Identify common signs/ symptoms to suspect leprosy
2. Correct procedure to elicit sensory deficit in the skin patch
3. Palpation of nerves Ulnar, Median, Radial, Lateral popliteal & post. Tibial nerve
4. Elicit sensory loss in the areas supplied by nerve
5. Voluntary muscle testing for commonly affected peripheral nerves
6. Grading of muscular weakness
6. Detailed clinical examination of leprosy affected person
7. Categorization of leprosy affected person into PB and MB,
8. Grading of Disability
9. Record the findings
10. Monitoring the progress during treatment

**Required educational material:**

- Four leprosy cases with different types of disability
- Laptop and LCD &/ Overhead projector (for presentations by participants)
- Presentation with typical cases and differential diagnoses of leprosy
- Recording formats around 10 copies of each
- MDT Blister packs for four regimens
- Transparencies for presentation of the case

**Reading material for Trainees:****Chapters from NLEP training manual for Medical Officers in leprosy**

- Pathogenesis & natural history of leprosy;
- Confirmation of leprosy & examination of PAL
- Classification & Management of leprosy
- Annexure III: Differential Diagnosis
- Annexure XV: Formats for recording and a Reporting

**Handouts:**

Copy of the PP Presentations

**Training methodology:**

- Lecture Discussion using power point presentation
- Case Demonstration & demonstration of various skills
- Slide show
- Hands on training for skills for assessment of PAL
- Objective specific practical examination
- Exercise for recording findings

**Conduction of session/ Methodology:**

1. Power point presentation describing presenting symptoms or complaints, Cardinal signs for confirmation of leprosy, common skin lesions and commonly involved nerves, manifestations of eyes, grading of disability, points to be extracted while taking detailed history and diagnosis of difficult cases and relapse
2. Discuss criteria for grouping leprosy in PB & MB

3. A power point presentation illustrating the typical cases of leprosy and other skin conditions for differential diagnosis of leprosy
4. Demonstrate testing of sensation and palpation of nerves on one of the assistants/ participants.
5. For Hands on training: invite 4-5 cases of different type of leprosy with different disabilities. Divide participants into 4-5 groups depending on the number of cases available and allot one case to each group for assessment and description of the management. As a facilitator visit each group every half an hour for around five minutes to check their progress, guide them and solve their problems and correct the examination skills where needed. Encourage participants to interact freely and let the participants present their findings. Invite other groups to contribute to it. Discuss the points raised by other groups, ask the presenting group whether they agree to any of the suggested modifications and in the end thank the group for their efforts.
6. Arrange a quiz/ objective structured practical exercises (OSPE) for the trainees and ask them to demonstrate different skills. For quiz participants may be divided in two groups or they may be asked to answer individually. In case of individual quiz show the slides again and discuss them and let the participants assess themselves. In case of groups you can discuss the slides on during the quiz presentation

**Session plan:**

1. Explanation of session agenda
2. Power point presentation for diagnosis of leprosy
3. Illustration on differential diagnosis of leprosy
4. Demonstration for examination of skin patch, palpation of nerves, sensory testing (ST), voluntary muscle testing (VMT)
5. Allotment of patients for clinical assessment
6. Arrange OSPE for supervision of performance by the trainees
7. Arrange quiz / for differential diagnosis of leprosy
8. Presentation on assessment & recording of findings

**Recommended reading:**

The following reading materials are recommended to accompany this session:

- GOI, DGHS, NLEP; guidelines for Disability prevention and medical rehabilitation for Primary level.
- GOI, DGHS, NLEP; guidelines for Disability prevention and medical rehabilitation for secondary level.
- ILEP Guide 1
- Atlas of leprosy (Sasakawa)

**Relevant websites:**