

## Session 6: Leprosy reaction and its management

*Duration: 120 min*

### **Session objectives:**

After completing this session participants will be able to:

1. Describe criteria to identify reaction/ neuritis
2. Describe high risk PAL for development of reactions
3. Describe management of PAL with reactions
4. Describe monitoring of PAL with reactions/ neuritis
5. Describe precautions medical officer must take to preserve vision in person with involvement of eye
6. Enumerate conditions for referral of PAL with reaction

### **Skills to be learnt:**

1. Recognize PAL with type 1 & type 2 reactions
2. Record the findings

### **Session content:**

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|---|----|
| 1. Common symptoms and signs of reactions         | 10 |
| 2. Difference between type 1 & Type 2 reactions   | 05 |
| 3. Features of severe reactions                   | 10 |
| 4. PAL with high risk of development of reactions | 05 |
| 5. Management of reaction & referral              | 10 |
| 6. Monitor the PAL on steroid therapy             | 10 |
| 7. Hands on training & discussion                 | 70 |

### **Required educational material:**

- Laptop and LCD projector
- PP presentation with typical cases with lepra reactions
- Recording formats around 10 copies of each
- Case histories of reactions

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

- Lepra reaction and its Management
- Prevention of disability
- Annexure III: Differential Diagnosis
- Annexure VI Management of specific conditions in lepra reaction
- Annexure XV Formats for recording and a Reporting

**Handouts:**

Copy of the PP Presentations

**Training methodology:**

- Lecture Discussion using power point presentation
- Demonstration of reaction cases
- Hands on training for registration of cases and maintenance of records
- Group work
- Case studies for quiz

**Conduction of session/ Methodology:**

1. Initially discuss with the help of PPT pathogenesis of reactions, clinical presentation of reactions, difference between Type I & type II lepra reaction, features of severe lepra reaction. Discuss & demonstrate assessment of risk status, prescribing prednisolone therapy for management of reactions/ neuritis, use of Splint for treatment of neuritis and appropriate referral of reaction cases.
2. Show slides of typical cases of reactions
3. Discuss some case studies and their management to facilitate the understanding of reactions and its management. Discuss management of cases shown during slide show.
4. Construct 4-5 case histories for reaction for the already allotted cases and ask the participants to work in groups and present the recommended management of their cases

**Session plan:**

1. Introduction to session
2. Power point presentation for reactions and its management
3. Slide show for cases of reactions
4. Group work for treatment of reaction on assigned case

**Further Reading and relevant website:**

- 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.
- GOI, DGHS, NLEP; guidelines for Disability prevention and medical rehabilitation for tertiary level.
- ILEP Training Guide 1: <http://manlep.wikispaces.com/space/showimage/LG1.pdf>
- ILEP Training Guide 2: <http://manlep.wikispaces.com/space/showimage/LG2.pdf>

**Relevant websites:**

- NLEP India web site: <http://www.nlep.nic.in>
- ILEP Training Guide 1: <http://www.ilep.org.uk/content/documentholder.htm?lg1eng.pdf>
- ILEP Training Guide 2: <http://www.ilep.org.uk/content/documentholder.htm?lg2eng.pdf>
- ILEP: <http://www.ilep.org.uk/>
- WHO: <http://www.who.int/lep/en/>