

Session 3: Pathogenesis and Natural History of the Disease

Duration: 180 min

Training objectives:

After completing this session participants will be able to:

1. Describe the natural history of the disease
2. Discuss the effect of immunological response on presentation of the disease.
3. Describe clinical manifestation of the disease

Session content:

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| 1) Natural history of the disease | - 20 |
| 2) Role of immunity and presentation of the disease | - 20 |
| 3) Common manifestations of the disease | - 30 |
| 4) Symptoms and signs of the disease to enable to suspect leprosy. | - 30 |
| 5) Illustrations on manifestation of the disease & Discussion | - 80 |

Required educational material:

Laptop, PowerPoint presentation, LCD projector, beamer, screen, whiteboard PPT. with typical cases of leprosy

Reading material for Trainees:

Chapters from NLEP training manual for Medical Officers in leprosy

- Pathogenesis & natural history of leprosy
- Annexure IV: Clinical aspects of the Ridley-Jopling classification of Leprosy
- Annexure V : Bacterial Index (BI) and Morphological index (MI)

Handouts:

Copy of the PP Presentations

Training methodology:

Lecture discussion using power point presentation

Conduction of session/ Methodology:

1. Lecture discussion through power point presentation regarding natural history of the disease, effect of immunological status on the clinical presentation of leprosy, its communicability, involvement of nerves, active / inactive lesions and progress of disease in treated and untreated cases; so that diagnostic and therapeutic procedures are practiced without any fear or hesitation. Concepts regarding factors responsible for spread of disease, burden of the disease and importance of quality of services are explained in light of pathogenesis of the disease.
2. Show illustrations of common manifestations of leprosy.

Session Plan:

1. Explanation of session agenda
2. Power point presentation
3. Illustrations of common presentations of the disease
4. Break when necessary

Recommended reading:

- ILEP Guide 1
- Atlas of leprosy (Sasakawa)