

Contents

<i>Contributors</i>	v
<i>Message from the IADVL President</i>	ix
<i>Preface</i>	xi
<i>Abbreviations</i>	xvii

Section 1: Examination of a Leprosy Patient

1. Classification and Clinical Diagnosis of Leprosy	3
<i>Gopikrishnan Anjaneyan, Vaishnavi R Gowda, P Narasimha Rao</i>	
2. Cutaneous Examination	15
<i>Bela Shah, Pragya Nair</i>	
3. Peripheral Nerve Examination	22
<i>Shekhar N Pradhan, Anil Patki</i>	
4. Cranial Nerve Examination	29
<i>Shylaja Someshwar, Pooja Agarwal</i>	
5. Sensory and Motor Nerve Function Assessment	39
<i>Shashank Bhargava, Deepali Tarate</i>	
6. Systemic Examination in leprosy	48
<i>Swetalina Pradhan, Usha Khemani</i>	

Section 2: Diagnosis and Investigations

7. Preparation and Interpretation of Slit Skin Smear	55
<i>Biswanath Behera, Patnaik Satyadarshi</i>	
8. Skin and Nerve Biopsy	61
<i>Sujai Suneetha, Ankit Bharti</i>	
9. Electrophysiological Tests (Nerve Conduction Studies and Others)	72
<i>Chirag Desai, Neelam Kumari Bhatt</i>	
10. Ultrasonography and Imaging Techniques in Leprosy: Value and Applications	78
<i>Sujai Suneetha, Ranugha PSS</i>	
11. Serological Diagnosis of Leprosy	82
<i>Itu Singh, Utpal Sengupta</i>	
12. Molecular Diagnosis of Leprosy	88
<i>Mallika Lavania, Ravindra P Turankar</i>	

Section 3: Drug Therapy and Management of Leprosy

- | | |
|--|-----|
| 13. Multidrug Therapy for Leprosy: Recommendation of World Health Organization (WHO) and National Leprosy Eradication Programme (NLEP), Govt of India
<i>Usha Khemani, Mohammad Adil</i> | 97 |
| 14. Practical Guidelines on Implementation of Chemoprophylaxis in Leprosy
<i>Hemanta Kumar Kar, Reetu Agarwal</i> | 106 |
| 15. MDT Regimens of Leprosy: Modifications, Extension and Additional Dosing
<i>Ashwini PK, Sejal Thakkar, Priti P Shah, P Narasimha Rao</i> | 112 |
| 16. Management of Antimicrobial Resistance in Leprosy
<i>Ajeet Singh, Neel Prabha</i> | 119 |

Section 4: Management of Special Scenarios in Leprosy

- | | |
|---|-----|
| 17. Management of High Bacteriological Index Leprosy Patients
<i>Tarun Narang, Vinod Kumar Hanumanthu</i> | 127 |
| 18. Management of Defaulters in Leprosy
<i>Shagufta Rather, Faizan Younus Shah</i> | 133 |
| 19. Diagnosis and Management of a Case of Relapse
<i>P Narasimha Rao, Sujai Suneetha, Akshay Ambasana</i> | 141 |
| 20. Pure Neuritic Leprosy and Silent Neuritis
<i>Santoshdev P Rathod, P Narasimha Rao, Gauri Mahabal</i> | 150 |
| 21. Visible Skin Lesions of Leprosy: Issues and Management
<i>P Narasimha Rao, Santoshdev P Rathod</i> | 156 |
| 22. Management of Nerve Abscess due to Leprosy
<i>Vivek M Pai, Preethi B Nayak</i> | 160 |
| 23. Management of Type 1 Lepra Reaction with Emphasis on Neuritis
<i>Anupama Gopalan, Deepika Pandhi</i> | 164 |
| 24. Management of Recurrent Type 2 Reaction
<i>Neelakumari M Patel, Abhishek Bhardwaj</i> | 169 |
| 25. Neuropathic Pain and Management
<i>Neel Prabha, P Narasimha Rao</i> | 180 |
| 26. Management of Lepra Reactions in Pregnancy and Lactation
<i>Meghana Phiske, Smitha Prabhu</i> | 186 |
| 27. Management of Leprosy in Children Including Reactions
<i>Bhumesh Kumar Katakam, Bikash Ranjan Kar</i> | 193 |

Section 5: Role of Physiotherapy

28. Principles of Physiotherapy	203
<i>Sathish Kumar Paul, David Prakash Kumar, Delicia Roshini</i>	
29. Self-care of Anesthetic Limb	210
<i>Shivani Ranjan, Santoshdev P Rathod, P Narasimha Rao</i>	
30. Splints, Supports and Physical Aids	216
<i>Meghana Phiske, Shylaja Someshwar</i>	
31. Management of Trophic Ulcers in Leprosy	234
<i>Brahmaiah Upputuri, Sugat Jawade</i>	
32. Rehabilitation of Leprosy Affected Persons with Disabilities and Management of Deformities	242
<i>Jerry Joshua, Sathish Paul, David Prakash Kumar</i>	
Annexures	249
Index	257

Abbreviations

AFB	: Acid fast bacilli
ADR	: Adverse drug reaction
AMR	: Anti-microbial resistance
ASHA	: Accredited Social Health Activist
BCG	: Bacillus Calmette-Guerin
BI	: Bacteriological/bacillary index
BL	: Borderline lepromatous leprosy
BT	: Borderline tuberculoid leprosy
CBR	: Community based rehabilitation
CMI	: Cell mediated immunity
CNS	: Central nervous system
Covid 19	: Corona virus disease 2019
ENL	: Erythema nodosum leprosum
G1D	: Grade-1 disability
G2D	: Grade-2 disability
HCP	: Health care provider
H & E.	: Haematoxylin and eosin stain
HLA	: Human leucocyte antigen
HRUS	: High resolution ultrasonography
IEC	: Information, education, communication
IAL	: Indian Association of Leprologists
IADV	: Indian Association of Dermatologists, Venereologists and Leprologists
ILEP	: International Federation of Anti-Leprosy Associations
LL	: Lepromatous leprosy
LAMP assay	Loop-mediated isothermal amplification assay
BB	: Mid-borderline leprosy
<i>M. leprae</i>	: <i>Mycobacterium leprae</i>
MB	: Multi-bacillary
<i>MDT</i>	: <i>Multi-drug therapy</i>
<i>MFT</i>	: <i>Monofilament</i>
MI	: Morphological index
MIC	: Minimum inhibitory concentration
MIP	: <i>Mycobacterium indicus pranii</i>
MO	: <i>Medical officer</i>
MRI	: Magnetic resonance imaging
NFI	: Nerve function impairment
NGO	: Non-governmental organisation
NLEP	: National Leprosy Eradication Program
NCDR	: New case detection rate

NSAID	: Non-steroidal anti-inflammatory drugs
NTD	: Neglected tropical disease
PB	: Pauci-bacillary
PCR	: Polymerase chain reaction
PEP	: Post exposure prophylaxis
PNL	: Pure neural leprosy
qPCR	: Quantitative real-time PCR assay
RLEP	: Leprae-specific repetitive element
ROM	: Rifampicin, ofloxacin, minocycline
RR	: Reversal reaction
RT PCR	: Real time PCR
SOP	: Standard operative procedure
SDR	: Single dose rifampicin
SW	: Semmes-Weinstein (monofilament)
TB	: Tuberculosis
T1R	: Type 1 lepra reaction
T2R	: Type 2 reaction
TNF	: Tumor necrosis factor-alpha
TT	: Tuberculoid leprosy
VMT	: Voluntary muscle testing
UN	: United Nations
WASH	: Water, sanitation and hygiene
WHO	: World Health Organization