

VOLUME 59

1991

**INTERNATIONAL
JOURNAL OF LEPROSY**
And Other Mycobacterial Diseases

Official Organ of the
INTERNATIONAL LEPROSY ASSOCIATION
(Association Internationale contre la Lèpre)
(Asociación Internacional de la Lepra)



Contents

**INTERNATIONAL JOURNAL OF LEPROSY
and Other Mycobacterial Diseases**

CONTENTS

Volume 59, Number 1, March 1991

Original Articles	Page
Ramesh, V., Saxena, Uma, Misra, R. S., Mukherjee, Ashok, and Ravi, S. Multibacillary Leprosy Presenting as a Solitary Skin Lesion; Report of Three Cases and Its Significance in Control Programs	1
Ramanathan, V. D., Tyagi, Padmawati, Ramanathan, Usha, Katoch, Kiran, Sengupta, Utpal, and Ramu, Gopal. Persistent Reduced Solubilization of Immune Complexes in Lepromatous Leprosy Patients with Reactions	5
Takahashi, M. Denise, Andrade, Heitor, F., Jr., Wakamatsu, Alda, Siqueira, Sheila, and De Brito, Thales. Indeterminate Leprosy: Histopathologic and Histochemical Predictive Parameters Involved in Its Possible Change to Paucibacillary or Multibacillary Leprosy	12
George, Joseph, Bhatia, V. N., Balakrishnan, S. and Ramu, G. Serum Zinc/Copper Ratio in Subtypes of Leprosy and Effect of Oral Zinc Therapy on Reactional States	20
Cho, Sang-Nae, Cellona, Roland V., Fajardo, Tranquilino T., Jr., Abalos, Rodolfo M., dela Cruz, Eduardo C., Walsh, Gerald P., Kim, Joo-Deuk, and Brennan, Patrick J. Detection of Phenolic Glycolipid-I Antigen and Antibody in Sera from New and Relapsed Lepromatous Patients Treated with Various Drug Regimens	25
Chaturvedi, Vinita, Sinha, Sudhir, Girdhar, Bhawmeshwar K., and Sengupta, Utpal. On the Value of Sequential Serology with a <i>Mycobacterium leprae</i> -specific Antibody Competition ELISA in Monitoring Leprosy Chemotherapy	32
Vachula, Mona, Holzer, Timothy J., Nelson, Kenrad E., and Andersen, Burton R. Effect of Glucocorticoids and Interferon- γ on the Oxidative Responses of Monocytes from Leprosy Patients and Normal Donors	41
Shroff, Khushroo E., Sainis, Krishna Balaji, Sengupta, Satya Ranjan, and Kamat, Ramesh S. Major Histocompatibility Complex Restriction of T-Cell Suppression of Immune Response to Mycobacteria	49
Andersen, Peter, Ljungqvist, Lene, Haslöv, Kaare, Bentzon, Michael Weis, and Heron, Iver. Proliferative Response to Seven Affinity Purified Mycobacterial Antigens in Eight Strains of Inbred Mice	58
Abraham, Betsy, Cariappa, Annaiah, and Chacko, Chinoy J. G. Rifampin in Drug-incorporated Diet: Effect of Duration and Temperature of Storage. Relevance to Drug-susceptibility Testing in Mice Inoculated with <i>M. leprae</i>	68
Abraham, Betsy and Cariappa, Annaiah. Inter- and Intra-Laboratory Variation in the Reporting of Skin Smears in Leprosy	76
Editorials	
The Chemotherapy of Leprosy. Part 2. (Gordon A. Ellard)	82
What Next in Basic Research? (Douglas B. Young)	95
The 1990 JOURNAL—A Continuing Perspective (Robert C. Hastings)	102
Clinical Notes	
Intralesional Variations from Lepromatous to Tuberculoid Histology—A Case Report (Charles K. Job, Vernia Drain, Robert R. Jacobson, and Robert C. Hastings)	116
Correspondence	
Vitiligo and Lepromatous Leprosy (K. Pavithran)	120
S-100 Protein Marker (Maurice J. Lefford)	122
Therapeutic Implications of Morphological Study of Nerves from Treated or Untreated Tuberculoid or Lepromatous Leprosy (Darab K. Dastur, Daya K. Manghani, and Jeroze F. Elavia)	122
Leprosy as Cause of False-positive Results in Serological Assays for the Detection of Antibodies to HIV-1 (Vera Lucia Andrade, Joao Carlos Avelaira, Alfredo Marques, Francisco Reis Vianna, and Mauro Schechter)	125
Obituary	
Weddell, Alexander Graham	127
News and Notes	129
Book Reviews	144
Current Literature	145
U.S.-Japan Cooperative Medical Science Program, Twenty-Fifth Joint Leprosy Research Conference, Sapporo, Japan, 1990	189
International Leprosy Association, Organization and Membership, 1990	205
Special Grantors and Sustaining Members	219

CONTENTS

Volume 59, Number 2, June 1991

Original Articles	Page
Pönnighaus, Jorg M., Mwanjasi, Luckson J., Fine, Paul E. M., Shaw, Marie-Anne, Turner, Amanda C., Oxborrow, Susan M., Lucas, Sebastian B., Jenkins, Peter A., Sterne, Jonathan A. C., and Bliss, Lyn. Is HIV Infection a Risk Factor for Leprosy?	221
Muliyil, Jayaprakash, Nelson, Kenrad E., and Diamond, Earl L. Effect of BCG on the Risk of Leprosy in an Endemic Area: A Case Control Study	229
Mathai, Rachel, George, Soshamma, and Jacob, Mary. Fixed Duration MDT in Paucibacillary Leprosy	237
Constant-Desportes, Monique, Guelpa-Lauras, Claire-Cécile, Carolina, Jean-Claude, Léoture, André, Grosset, Jacques H., and Sansarricq, Hubert. A Case of Relapse with Drug-susceptible <i>M. leprae</i> After Multidrug Therapy	242
Katoch, Kiran, Natarajan, Mohan, Bagga, Ashok, and Katoch, Vishwa M. Clinical and Bacteriological Progress of Highly Bacillated BL-LL Patients Discontinuing Treatment After Different Periods of MDT	248
Boerrigter, Gjalt, Pönnighaus, Jorg M., Fine, Paul E. M., and Wilson, Rosamund J. Four-year Follow-up Results of a WHO-recommended Multiple-drug Regimen in Paucibacillary Leprosy Patients in Malawi	255
Haas, Monika, Lindner, Buko, Dietz, Martin, Tebebe, Yemane Berhan, and Seydel, Ulrich. Determination of <i>in vivo</i> and <i>in vitro</i> Drug Effects of Mycobacteria from the Mass Spectrometric Analysis of Single Organisms	262
Wright, Stephen, Morse, Nancy, and Manku, Mehar S. Essential Fatty Acids in Plasma of Patients with Leprosy	271
Rastogi, Nalin, Cadou, Sylviane, and Hellio, Raymond. Differential Handling of Bacterial Antigens in Macrophages Infected with <i>Mycobacterium leprae</i> as Studied by Immunogold Labeling of Ultrathin Sections	278
Becx-Bleumink, Marijke. Allocation of Patients to Paucibacillary or Multibacillary Drug Regimens for the Treatment of Leprosy —A Comparison of Methods Based Mainly on Skin Smears as Opposed to Clinical Methods —Alternative Clinical Methods for Classification of Patients	292
Editorials	
Cogitations on the Cultivation of <i>Mycobacterium leprae</i>. Why Bother? (John H. Hanks)	304
Polymerase Chain Reaction and Leprosy (Thomas P. Gillis and Diana L. Williams)	311
Correspondence	
Induction of Lepromin Positivity in Monkeys by a Candidate Antileprosy Vaccine: <i>Mycobacterium habana</i> (Naipal B. Singh, Anil Srivastava, Hardwar P. Gupta, Ashok Kumar, and Sudhir Srivastava)	317
Reactions to Antigens from Actinomycetes Including <i>Mycobacterium leprae</i> in Leprosy Patients (Ronny Ohman, Charlotte Walford, Paul Converse, and Malin Ridell)	320
Precautionary Note for Observing Signs of Activity (or Relapse) in Treated Leprosy Patients (V. Ramesh)	322
Borderline Tuberculoid (BT) Leprosy Confined to a Tattoo (V. N. Sehgal, Sanjiv Jain, Sambit N. Bhattacharya, and S. Chouhan)	323
Cutaneous Lipids and Mast Cells in Murine Leprosy (Oscar Rojas-Espinosa and Elba Reyes Maldonado)	325
Some Possible Interactions of <i>M. leprae</i> and HIV in the Peripheral Nerves (Anil H. Patki)	331
Quantitative Relationship Between Anti-PGL-I-specific Antibody Levels and the Lepromin Reaction (Hugo L. David, Maria de Fatima Maroja, and Philippe Cruaud)	332
Circulating Antispermatozoal Antibodies in Leprosy (Bhushan Kumar and S. Majumdar)	334
Role of Topical Phenytoin in Trophic Ulcers of Leprosy in India (Yasawant K. Malhotra and Syed S. Amin)	337
News and Notes	339
Current Literature	345
Special Grantors and Sustaining Members	383

CONTENTS

Volume 59, Number 3, September 1991

Original Articles	Page
Kaur, Gurjeet, Girdhar, Bhawneswar K., Girdhar, Anita, Malaviya, Govind N., Mukherjee, Ashok, Sengupta, Utpal, and Desikan, Kattapalli V. A Clinical, Immunological, and Histological Study of Neuritic Leprosy Patients	385
Hogeweg, Margreet and Faber, William R. Progression of Eye Lesions in Leprosy: Ten-year Follow-up Study in The Netherlands	392
Singh, Naipal B., Choudhary, Anita, and Bhatnagar, Shalini. Detection of <i>M. leprae</i> -specific Antigens with Dot-ELISA in Urine and Nasal Samples from Leprosy Patients	398
Ulrich, Marian, Smith, Peter G., Sampson, Celsa, Zuniga, Manuel, Centeno, Marta, Garcia, Victor, Manrique, Xiomara, Salgado, Antonio, and Convit, Jacinto. IgM Antibodies to Native Phenolic Glycolipid-I in Contacts of Leprosy Patients in Venezuela: Epidemiological Observations and a Prospective Study of the Risk of Leprosy	405
Soebono, Hardyanto and Klatser, Paul R. A Seroepidemiological Study of Leprosy in High- and Low-endemic Indonesian Villages	416
Krishnamurthy, Padebettu, Rao, Potluri S., Reddy, Bapura N., Subramanian, Murugan, Dhandayudapani, Subramanian, Bhatia, Vivekanad, Neelan, Phillipakkam N., and Dutta, Arabinda. Seroepidemiological Study of Leprosy in a Highly Endemic Population of South India Based on an ELISA Using Synthetic PGL-I	426
Lefford, Maurice J., Hunegnaw, Mesfin, and Siwik, Ernest. The Value of IgM Antibodies to PGL-I in the Diagnosis of Leprosy	432
Chujor, Chujor S. N., Bernheimer, Hanno, Levis, William R., and Schwerer, Beatrix. Serum IgA ₁ and IgM Antibodies Against <i>Mycobacterium leprae</i> -derived Phenolic Glycolipid-I: A Comparative Study in Leprosy Patients and Their Contacts	441
Gormus, Bobby J., Xu, Keyu, Alford, Patricia L., Lee, D. Rick, Hubbard, Gene B., Eichberg, Jorg W., and Meyers, Wayne M. A Serologic Study of Naturally Acquired Leprosy in Chimpanzees	450
Editorials	
Impact of Multidrug Therapy on the Treatment and Control of Leprosy (John S. Gilbody)	458
Correspondence	
Trigeminal Trophic Syndrome in Hansen's Disease (Jayakar Thomas, S. Parimalam, G. Thamarai Selvi, S. M. Augustine, and T. C. Muthuswami)	479
Response to Phytohemagglutinin of LL Patients' Lymphocytes Preincubated in Culture Media (Mary Fafutis-Morris, Fernando Alfaro-Bustamante, Amado Gonzalez-Mendoza, Roberto Morales-Ortiz, and Alfonso E. Islas-Rodriguez)	480
Mycobacterial Cell Surface Proteins Revealed by Labeling with ¹²⁵I (Neelima J. Deuskar and Madhav G. Deo)	482
In Vitro Effect of Dapsone on NADH-Methemoglobin Reductase (Claudio Eduardo Muller Banzato and Luis Alberto Magna)	486
Effect of Circulating Immune Complexes of Leprosy Patients on Leukocyte Migration Inhibition Induced by <i>Mycobacterium leprae</i> Antigens in Healthy Volunteers (Padmawati Tyagi, Bhawneswar K. Ghirdhar, Kiran Katoch, Utpal Sengupta, and Vadakkuppattu D. Ramanathan)	487
Hypothesis: Solar Ultraviolet Radiation and the Initial Skin Lesion of Leprosy (Anil H. Patki)	492
Obituary	
Dharmendra	494
News and Notes	496
Book Review	499
Current Literature	500
Special Grantors and Sustaining Members	535

CONTENTS

Volume 59, Number 4, December 1991

Original Articles	Page
Abbot, Neil C., Beck, John Swanson, Samson, Prabhakar D., Butlin, C. Ruth, Brown, Richard A., Forster, Alan, Grange, John M., and Cree, Ian A. Impairment of Fingertip Vasomotor Reflexes in Leprosy Patients and Apparently Healthy Contacts	537
Dietz, Martin, Haas, Monika, Lindner, Buko, Dhople, Arvind M., Tebebe, Yemane B., and Seydel, Ulrich. Intrabacterial Sodium-to-Potassium Ratios and ATP Contents of <i>Mycobacterium leprae</i> from Ofloxacin-treated Patients	548
Becx-Bleumink, Marijke. Experience with WHO-recommended Multidrug Therapy (MDT) for Multibacillary (MB) Leprosy Patients in the Leprosy Control Program of the All Africa Leprosy and Rehabilitation Training Center in Ethiopia: Appraisal of the Recommended Duration of MDT for MB Patients	558
Fandinho, Fátima C. O., Salem, Júlia I., Gontijo-Filho, Paulo F., Marója, Maria F., and David, Hugo L. Mycobacterial Flora of the Skin in Leprosy	569
Kaur, Jagdeep, Khare, Sangeeta, Bhutani, Lalit K., and Rao, Donthamsetty Nageswara. Enzyme Immunoassay of Phagocytosis Stimulating Tetrapeptide "Tuftsin" in Normal and Leprosy Sera	576
Launois, Pascal, Blum, Laurent, Dieye, Alioune, Millan, Jacques, Sarthou, Jean Louis, Michel, Jean Claude, and Bach, Marie-Anne. <i>M. leprae</i> - and BCG-induced Chemiluminescence Response of Monocytes from Leprosy Patients and Healthy Subjects: Effects of Gamma-Interferon and GM-CSF	582
Chujor, Chujor S. N., Regele, Heinz, Bernheimer, Hanno, Meeker, Harry C., Levis, William R., and Schwerer, Beatrix. Serum Antibodies Against Peripheral Nervous System Antigens in Leprosy	590
Tanaka, Miyoko, Tanaka, Yoshinori, and Kohsaka, Kenji. Effects of Cyclosporin A on Bacterial Growth and Immunological Responsiveness in BALB/c Mice Infected with <i>Mycobacterium leprae</i>	598
Rojas-Espinosa, Oscar, Oltra, Antonia, Arce, Patricia, and Mendez, Patricia. Inhibition of Complement Activity in Murine Leprosy	605
Pattyn, Stefaan R. Anti- <i>Mycobacterium leprae</i> Activity of Several Quinolones Studied in the Mouse	613
Baskin, Gary B., Gormus, Bobby J., Xu, Keyu, Martin, Louis N., Wolf, Robert H., Cantrell, Connie, Pezeshkpour, G. H., Walsh, Gerald P., Malaty, Raga, and Meyers, Wayne M. Experimental Borderline Lepromatous Leprosy with Intranural Erythema Nodosum Leprosum in a Mangabey Monkey (<i>Cercopithecus atys</i>)	618
Editorials	
MDT for All; Target Oriented Leprosy Control Program in the 1990s. (Yo Yuasa)	624
Leprosy and AIDS: A Review of the Literature and Speculations on the Impact of CD4+ Lymphocyte Depletion on Immunity to <i>Mycobacterium leprae</i>. (Richard A. Miller)	639
Clinical Notes	
A Histopathological and Immunological Profile of a Single Lesion Lepromatous Leprosy (LLs). (Radhey Shyam Misra, Subramanyam Ravi, Bhanu Iyengar, and Indira Nath)	645
Correspondence	
Antileprotic Effect of the Immunostimulating Drug RACA 854 in Experimentally Infected Armadillos. (Jindrich Kazda and Ahmed Shafik)	649
Renal Alterations in Murine Leprosy. (Oscar Rojas-Espinosa and Elba Reyes Maldonado)	652
Obituary	
Jagadisan, T. N.	656
News and Notes	658
Book Reviews	670
Current Literature	671
U.S.-Japan Cooperative Medical Science Program, Twenty-Sixth Joint Leprosy Research Conference, Seattle, Washington, U.S.A., 1991	702
Reviewers	724
Statement of Ownership, Management and Circulation	725
Statement of Financial Condition	726
Special Grantors and Sustaining Members	729
Index to Volume 59	731