

VOLUME 62

1994

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 62, Number 1, March 1994

Original Articles	Page
van Beers, Stella M., Izumi, Shinzo, Madjid, Baedah, Maeda, Yumi, Day, Rosmini, and Klatser, Paul R. An Epidemiological Study of Leprosy Infection by Serology and Polymerase Chain Reaction	1
Pönnighaus, Jorg M., Fine, Paul E. M., Sterne, Jonathan A. C., Bliss, Lyn, Wilson, Rosamund J., Malema, Simon S., and Kileta, Simon. Incidence Rates of Leprosy in Karonga District, Northern Malawi: Patterns by Age, Sex, BCG Status and Classification	10
Pandya, Shubhada S. and Bhatki, Waman S. Severe Pan-Sensory Neuropathy in Leprosy	24
Oommen, Shanthakumar Thomas, Natu, Madhav Vinayak, Mahajan, Manmohan Krishan, and Kadyan, Randhir Singh. Lymphangiographic Evaluation of Patients with Clinical Lepromatous Leprosy on Clofazimine	32
Xiong, Jun-hao, Ji, Baohong, Perani, Evelyn G., Petinon, Corrine, and Grosset, Jacques-H. Further Study of the Effectiveness of Single Doses of Clarithromycin and Minocycline Against <i>Mycobacterium leprae</i> in Mice	37
Saito, Hajime, Tomioka, Haruaki, Sato, Katsumasa, and Dekio, Satoshi. Therapeutic Efficacy of Benzoxazinorifamycin, KRM-1648, in Combination with Other Antimicrobials Against <i>Mycobacterium leprae</i> Infection Induced in Nude Mice	43
Launois, Pascal, Niang, M'Bayame N'Diaye, Drowart, Annie, Van Vooren, Jean-Paul, Sarthou, Jean-Louis, Lalu, Thibault, Millan, Jacques, and Huygen, Kris. IgG Response to Purified 65- and 70-kDa Mycobacterial Heat Shock Proteins and to Antigen 85 in Leprosy	48
de Blaquièrre, Gail E., Curtis, Jill, Pereira, Jerome H., and Turk, John L. Denatured Muscle Grafts for Nerve Repair in an Experimental Model of Nerve Damage in Leprosy. 1. A Functional and Morphometric Study	55
Santamaria, Luis, Terenghi, Giorgio, Curtis, Jill, de Blaquièrre, Gail E., Pereira, Jerome H., Turk, John L., and Polak, Julia M. Denatured Muscle Grafts for Nerve Repair in an Experimental Model of Nerve Damage in Leprosy. 2. Recovery of Peripheral Peptide-Containing Nerves Assessed by Quantitative Immunohistochemical Study	64
Kato, Laszlo, Szejtli, J. and Szente, L. Water Soluble Complexes of C ₁₄ and C ₁₆ Fatty Acids and Alcohols in Media for Cultivation of Leprosy-Derived Psychrophilic Mycobacteria	75
Hirata, Tsunehiko and Harada, Nobuo. Electron Microscopic Observations of the Relationship Between Peripheral Nerve Tissue Proper and an Endoneurial Capillary in a Dermal Lesion of a Relapsed Lepromatous Patient	89
Ridley, Marian J., Waters, Michael F. R., and Ridley, Dennis S. Effect of <i>Mycobacterium leprae</i> in Peripheral Nerve Trunk on the Evolution of Skin Lesions	99
Editorials	
State-of-the-Art Lectures	
Immunology of Leprosy: Lessons From and For Leprosy (Tom H. M. Ottenhoff)	108
The Genome of <i>Mycobacterium leprae</i> (Stewart T. Cole)	122
Clinical Notes	
Disabilities Among Rural Leprosy Patients in Myanmar (Myo Thet Htoon and Zaw Win)	126
Correspondence	
Leprosy Vaccines from Cultivable Mycobacteria (M. G. Deo)	131
Dr. Mukherjee, et al. Respond to Dr. Deo (Ashok Mukherjee, Syed A. Zaheer, Amar K. Sharma, Radhey S. Misra, H. K. Kar, Rama Mukherjee, and Gurusaran P. Talwar)	132
Leprosy and HIV Infection (Ana Marcia de Almeida, Ana Maria Ferreira Roselino, and Norma Tiraboschi Foss)	133
A Latex Agglutination Test for Rapid Serodiagnosis of Leprosy in the Field (Thomas Oettinger, Ase B. Andersen, Ayenew Nurlign, Peter Skinhoj, and Sten Verland)	135
Detection of <i>Mycobacterium leprae</i> in Tissue and Blood by Polymerase Chain Reaction (Kyu Suk Lee, Oh Kwang Youl, Ryoo Young Wok, and Min Ho Suh)	139
Minimal Bactericidal Concentration of Clarithromycin Against <i>M. leprae</i> (Robert H. Gelber, Lydia P. Murray, Patricia Siu, and Mabel Tsang)	140
Active Humoral Immunity in the Absence of Cell-Mediated Immunity in Murine Leprosy: Lastly an Explanation (Oscar Rojas-Espinosa)	143
Obituary	
Dr. George Liddle Fite (John R. Trautman)	148
Book Review	149
News and Notes	150
Current Literature	156
Special Grantors and Sustaining Members	207

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

CONTENTS

Volume 62, Number 2, June 1994

Original Articles	Page
Jamet, Pierre, Blanc, Leopold, Fayne, Ousmane C., Traore, Issa, and Bobin, Pierre. Relapses After a Single Dose of Rifampin in Skin-Smear Negative Multibacillary Patients After Dapsone Monotherapy	209
Cartel, Jean-Louis and Naudin, Jean-Claude. Rate of Relapse in Multibacillary Patients After Cessation of Long-Course Dapsone Monotherapy Supplemented by a Final Supervised Single Dose of 1500 mg of Rifampin	215
Lubbers, Wiebe Jan, Schipper, Alberte, Hogeweg, Margreet, and de Soldenhoff, Richard. Paralysis of Facial Muscles in Leprosy Patients with Lagophthalmos	220
Balybin, Eugene S. and Vinnick, Lazar A. Autosensitization to Connective Tissue Elements and Endogenous Adaptation Hormones in Mycobacterioses	225
Reddi, P. Prabhakara, Amin, Amol G., Khandekar, P. S., and Talwar, G. P. Molecular Definition of Unique Species Status of <i>Mycobacterium w</i> ; a Candidate Leprosy Vaccine Strain	229
Davidson, Sandra K. and George, Gregory T. Detection and Characterization of a λ gt11 Recombinant Clone of <i>M. leprae</i> that Expresses an Antigenic Determinant of a 64-kDa Protein	237
Ilangumaran, Subburaj, Shankernarayan, Nallakandypanangadan, Ramu, Gopal, and Muthukruppan, Veerappan. Antibody Response to Recombinant 65-kDa, 70-kDa and 18-kDa Mycobacterial Antigens in Leprosy Patients and Healthy Contacts in a Leprosy-Endemic Population	245
Theuvenet, W. J., Soares, D., Baral, J. P., Theuvenet-Schutte, A. R., Palla, J. P., Jesudasan, K., Nakami, J., Bista, R. B., Jayakumar, P., and Failbus, P. K. Mass Survey of Leprosy in Lalitpur District, Nepal	256
Singh, Navjeevan, Arora, V. K., Ramam, M., Tickoo, S. K., and Bhatia, A. An Evaluation of the S-100 Stain in the Histological Diagnosis of Tuberculoid Leprosy and Other Granulomatous Dermatoses	263
Editorials	
State-of-the-Art Lectures	
Progress in the Chemotherapy of Leprosy (Jacques-Henri Grosset)	268
Elimination of Leprosy as a Public Health Problem (S. K. Noordeen)	278
Prospects of Global Elimination of Leprosy as a Public Health Problem by the Year 2000 (Luis Marino Bechelli)	284
Correspondence	
An Atypical Site in HLA-DQB1 Detected in Leprosy Patients (Hideki Ohyama, Atsushi Nagai, Shogo Takashiba, Hidemi Kurihara, Kazuko Sugiyama, Shinzo Inoue, Mutsue Mizushima, Akinori Kohzuma, and Yoji Murayama)	293
Lepromatous Leprosy and HIV Infection (L. M. Olivares, G. E. A. Pizzariello, J. Benetucci, M. H. Farina, C. Kien, and A. Btesh)	295
Necrotizing Erythema Nodosum Leprosum Triggered by Cotrimoxazole? (Sérgio de A. Nishioka, Isabela M. B. Goulart, Marcius K. N. Burgarelli, Marcelo S. Ferreira, and F. R. F. Nunes-Araújo)	296
Pefloxacin in Histoid Leprosy (P. M. Mahajan, V. H. Jadhav, and J. M. Mehta)	297
Assessment of the Purity of <i>M. leprae</i> Preparations from Tissues of Leprosy-Infected Laboratory Animals (Margarita N. Dyachina, Ludmila M. Pynchuck, Alla L. Lazovskaya, and Anatoly A. Juscenko)	299
"Tuberculoid Contamination" in Histoid Hanseniasis (Michael G. Corcos and Christopher D. Corcos)	301
Response by Dr. Fiallo and Dr. Nunzi (Paolo Fiallo and Enrico Nunzi)	305
News and Notes	306
Current Literature	309
Special Grantors and Sustaining Members	343

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

CONTENTS

Volume 62, Number 3, September 1994

Original Articles	Page
Ponnighaus, Jorg M., Fine, Paul E. M., Sterne, Jonathan A. C., Malema, S. S., Bliss, Lyn, and Wilson, Rosamond J. Extended Schooling and Good Housing Conditions are Associated with Reduced Risk of Leprosy in Rural Malawi	345

Smith, Trevor C. and Richardus, Jan Hendrik. Relapse Rates in Patients Treated with Dapsone Monotherapy and Combinations of Dapsone and Thiambutosine, Thiacetazone, Isoniazid and Streptomycin in the Pre-MDT Era	353
Husser, Jean A., Traore, Issa, and Daumerie, Denis. Activity of Two Doses of Rifampin Against <i>Mycobacterium leprae</i>	359
Vu Tan Trao, Hoang Thuy Long, Nguyen Do Quyen, Ho Minh Ly, Nguyen Diem Hong, Le Thu Hang, Dang Duc Trach, Nguyen Quoc An, Le Thi Phuong, Tran Hau Khang, Nguyen Nguyen, Le Kinh Due, Hendriks, Jan T., and Wright, E. Pamela. Long-Term Evaluation of Immune Status in Leprosy Patients Undergoing Multiple Drug Therapy	365
Daniel, Ebenezer, David, Alice, and Rao, P. S. S. Quantitative Assessment of the Visibility of Unmyelinated Corneal Nerves in Leprosy	374
McClellan, Kimberley, G/Yesus, Ethiopia, Cenini, Pietro, Demissie, Abebech, and Amare, Genet. Phenotype and Cytokine Expression of Intralésional Cells in Borderline Leprosy	380
Chaudhury, S., Hazra, S. K., Saha, B., Mazumder, B., Biswas, P. C., Chattopadhyay, D., and Saha, Kunal. An Eight-Year Field Trial on Antileprosy Vaccines Among High-Risk Household Contacts in the Calcutta Metropolis	389
Job, Charles K., Chehl, Sumir K., and Hastings, Robert C. Transmission of Leprosy in Nude Mice Through Thorn Pricks	395
Ishaque, Muhammad, Togola, Daouda, and Sticht-Groh, Veronika. α -Ketoglutarate Dehydrogenase in the <i>In Vitro</i> -Grown <i>Mycobacterium lepraemurium</i>	399
Editorials	
State-of-the-Art Lecture	
Not by Chemotherapy Alone (H. Srinivasan)	404
Reflections on the International Leprosy Congresses and Other Events in Research, Epidemiology, and Elimination of Leprosy (Luis M. Baliña and Raul P. Valdez)	412
Clinical Notes	
Arthritis in Leprosy: Clinical, Laboratory, and Radiological Assessments (Inderpal Singh, Surrinder Kaur, Niranjani Khandelwal, Inderjeet Kaur, and Shridhar D. Deodhar)	428
A Case of Secondary Syphilis with a Remarkable Resemblance in Histopathologic Appearance to Indeterminate Leprosy (Charles K. Job, G. Anandhan, J. Jayakumar, M. Aschhoff, and S. Kurien)	433
Correspondence	
Lid Retraction as an Indicator of Lagophthalmos in Leprosy; A Preliminary Report (Ebenezer Daniel, Shirley Chacko, and Sigamani Arunthathi)	436
Multidrug Therapy and After: Changing Visage of Ocular Leprosy (Ebenezer Daniel)	437
Colon is Not Involved in Human Leprosy (V. K. Sharma, R. Kochhar, S. Kaur, A. K. Malik, and I. Kaur)	439
Clinico-Pathological Correlation Across the Leprosy Spectrum: Relevance in Current Context (Virendra N. Sehgal and S. Jain)	441
Bhatia and Katoh Respond (A. S. Bhatia and Kiran Katoh)	442
Lack of Response to WHO/MDT; a Case Report by Habtemariam and Xabier (V. K. Pannikar)	443
Response to Comments by Dr. Pannikar (Haileselassie Habtemariam)	443
Status of HBV DNA and HBsAg in Leprosy Patients (Kakoli Banerjee, Saurabhi Ghosh, K. D. Moudgil, and Pramod Khandekar)	444
Oxidation of Sphingolipids by <i>Mycobacterium leprae</i> (Muhammad Ishaque and Veronika Sticht-Groh)	446
Obituaries	
Jose Esteban Cardama (Luis M. Baliña)	448
Sachin Chaudhury (S. K. Hajra and Kunal Saha)	449
Book Reviews	450
News and Notes	455
Current Literature	463
Special Grantors and Sustaining Members	497

INTERNATIONAL JOURNAL OF LEPROSY and Other Mycobacterial Diseases CONTENTS

Volume 62, Number 4, December 1994

Original Articles	Page
Levee, Geraldine, Liu, Jing, Gicquel, Brigitte, Chanteau, Suzanne, and Schurr, Erwin. Genetic Control of Susceptibility to Leprosy in French Polynesia; No Evidence for Linkage with Markers on Telomeric Human Chromosome 2	499

Jamil, Sarwat, Wilson, Stuart M., Hacket, Maggie, Hussain, Rabia, and Stoker, Neil G. A Col- orimetric PCR Method for the Detection of <i>M. leprae</i> in Skin Biopsies from Leprosy Patients	512
Kawuma, Herman Joseph S., Bwire, Robert, and Adatu-Engwau, F. Leprosy and Infection with the Human Immunodeficiency Virus in Uganda; a Case-Control Study	521
Sekar, Balaraman, Jayasheela, Manur, Chattopadhyaya, Debasish, Anandan, Duraisamy, Rathinavel, Lakshmanan, Vasanthi, Bavanantham, Subramanian, Murugan, and Sivarama- krishna Rao, Potluri. Prevalence of HIV Infection and High-Risk Characteristics Among Leprosy Patients of South India; a Case-Control Study.....	527
Thuc, Nguyen Van, Abel, Laurent, Lap, Vu Dinh, Oberti, Jean, and Lagrange, Philippe H. Pro- tective Effect of BCG Against Leprosy and Its Subtypes: a Case-Control Study in Southern Vietnam	532
Shah, Damayanti H., Vartak, Rekha R., Naik, Sharad S., Dandekar, Shubhada R., and Ganapati, R. Epidemiological Studies in Children of a Low-Endemic Region, a High-Endemic Region, and Dwellers of a Leprosy Colony: Evaluation of Anti-ND-BSA Antibodies and Lepromin Response	539
Kyriakis, Kyriakos P., Kontochristopoulos, George J., and Panteleos, Demetrius N. Current Profile of Active Leprosy in Greece; a Five-Year Retrospective Study (1988–1992).....	547
Rada, Elsa, Ulrich, Marian, Aranzazu, Nacarid, Santaella, Carlos, Gallinoto, Maria, Centeno, Marta, Rodriguez, Vestalia, and Convit, Jacinto. A Longitudinal Study of Immunologic Reac- tivity in Leprosy Patients Treated with Immunotherapy	552
Scollard, David M., Smith, Trevor, Bhoopat, Lertlakana, Theetranont, Choti, Rangdaeng, Sam- reung, and Morens, David M. Epidemiologic Characteristics of Leprosy Reactions	559
Gelber, Robert H., Murray, Lydia P., Siu, Patricia, Tsang, Mabel, and Rea, Thomas H. Efficacy of Minocycline in Single Dose and at 100 mg Twice Daily for Lepromatous Leprosy	568
Lee, Seok Jong, Kim, Do Won, Jun, Jae Bok, Chung, Sang Lip, and Kim, Jung Chul. Lipid Com- position of the Stratum Corneum of the Sole in Patients with Leprosy	574
Mautalen, Carlos A., Vaquero, Noemi L., Zeni, Susana N., Mendez, Maria A., Gonzalez, Diana C., Bagur, Alicia C., Casco, Cristina A., and Ladizesky, Marta G. Calcium Metabolism and Its Reg- ulating Hormones in Patients with Leprosy.....	580
Gupta, Bal Kishan and Kochar, Dhanpat Kumar. Study of Nerve Conduction Velocity, Som- atosensory-Evoked Potential and Late Responses (H-Reflex and F-Wave) of Posterior Tibial Nerve in Leprosy	586
Editorials	
State-of-the-Art Lectures	
The Microbiology of <i>Mycobacterium leprae</i>, Part II. Reflections on Major Developments and Those Responsible for Them (Patrick J. Brennan)	594
Sustainability of Leprosy Control Services in Low-Endemic Situations (Pieter Feenstra)	599
Correspondence	
Milia in Leprosy (Acharya Sandhya, C. Balanchandran, C. R. Srinivas, Shruthakirthi D. Shenoi, L. Sabitha, and P. Satish)	609
HIV-1 Infection and Leprosy (Bobby J. Gormus)	610
Dr. Pönnighaus Replies (Jorg M. Pönnighaus)	611
Dr. Borgdorff Replies (Martien W. Borgdorff).....	612
Experimental Transmission of Human Leprosy Bacilli in Foot Pads of Severe Combined Im- munodeficient Mice (Muhammad Ishaque and Veronika Sticht-Groh)	613
Accurate Diagnosis of Tuberculosis Meningitis Using Polymerase Chain Reaction (Amol G. Amin, Ashish K. Garg, Kamlesh Chopra, and Pramod Khandekar).....	614
<i>Mycobacterium lepraemurium</i> Itself Does Not Interfere with the <i>in Vitro</i> Lymphoproliferation Induced by Concanavalin A (Oscar Rojas-Espinosa, Ivonne Bonilla-Velázquez, and Patricia Arce-Paredes).....	616
Electron Microscopic Observations of Small Unmyelinated Nerve Tissue Proper in a Dermal Lesion of a Relapsed Lepromatous Patient (Tsunehiko Hirata and Nobuo Harada)	619
Relapse After Long-Term Follow Up of Multibacillary Patients Treated by WHO Multidrug Regimen (Pierre Jamet and Baohong Ji)	622
Book Reviews	623
News and Notes	626
Current Literature	634
U.S.–Japan Cooperative Medical Science Program, Twenty-Ninth Joint Leprosy Research Con- ference, Kyoto, Japan, 1994	678
Reviewers	690
Statement of Financial Condition	691
Statement of Ownership, Management, and Circulation	694
Special Grantors and Sustaining Members	695
Index to Volume 62	697