

**ABSTRACTS**



**INTERNATIONAL  
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1998

# 15TH INTERNATIONAL LEPROSY CONGRESS

7-12 September 1998

Beijing, China

## SCIENTIFIC PROGRAM

### SESSION 1

Training I

*Tuesday, 8 September 1998*

#### 13:00 (Room 1)

- TR01** Methods of training basic health workers and patients in prevention of disability. SAMSON, P.D., Wong, M.L., Guocheng, Z., Jiang, J., Watson, J., Piefer, A., Winslow, R., Smith, W.C.S. Singapore
- TR02** Basic activities and skills determined important in preventing impairments and disability in HD and their impact on training and supervision in Brazil in 1997 and 1998. LEHMAN, Linda, Vieth, H., Orsini, M., Oliveira, M. Brazil
- TR03** The results of 5 national standardized prevention of disability in Hansen's disease courses for the trainer/supervisor which covered all 27 Brazilian states in 1997 and 1998. LEHMAN, Linda, Vieth, H., Orsini, M., Oliveira, M. Brazil
- TR04** The development and implementation of national standardized prevention of disability training courses for all 27 Brazilian states. LEHMAN, Linda, Vieth, H., Orsini, M., Leide, M., Oliveira, W. Brazil
- TR05** Distance education in leprosy. UMA, V., Stephen, J., Arunthathi, S., Krishnamurthy, P., Reddy, N.B.B. India
- TR06** Training for leprosy: Where do we go from here? KRISHNAN, S.A.R., Groenen, G., Bulto, T. Ethiopia
- TR07** Field based training in health education in leprosy - a new approach. ETHIRAJ, T., Uma, V., Krishnamurthy, P. India
- TR08** LCA/LCS training, present and future, in Bangladesh. HOSSAIN, Delwar. Bangladesh
- TR09** Folk-A potential media in health communication. BANDYOPADHYAY, Sudhakar. India
- TR10** Functional management tools in leprosy work. RAVICHANDRAN, J., Devadas, T. India
- TR11** Working with non-biomedical health care providers for leprosy elimination. KASTURIARATCHI, Nimal, Grewal, P., Weiss, M., Gunawardene, P., Dewapura, D., Settinayake, S., Somatunga, L., Ariyaratne, V. Sri Lanka

- TR12** Impact of leprosy training to general health workers in Bangladesh. Ali, Ahsan, AHMED, J.U., Lobo, D., Begum, N. Bangladesh
- TR13** Training need assessment in the supervision skill of the district leprosy supervisors in Indonesia. KURNIA, Djohan. Indonesia
- TR14** The patient as a community educator in the City of Sao Bernardo do Campo, Brazil. COSTA, Maria de Fatima da. Brazil

## SESSION 2

### Epidemiology I

*Tuesday, 8 September 1998*

#### 13:00 (Room 2)

- EP01** Spatial distribution of *M. leprae* PCR positive individuals in an India community. EDWARD, V.K., Rao, J.R., Jadhav, R.S., Smith, W.C.S. India
- EP02** Patient contact is the major determinant in incident leprosy: Implications for future control. van Beers, S.M., Hatta, M., KLATSER, P.R. The Netherlands
- EP03** An epidemiological study of *M. leprae* infection and distribution of leprosy bacillus in the environment of endemic villages in North Maluku, Indonesia. IZUMI, Shinzo, Matuoka, M., Budiawan, T., Nakata, N., Saeki, K. Japan
- EP04** Seroreactivity of 102 nonhuman primates to PGL-I of *Mycobacterium leprae* in the Republic of Benin. GUEDENON, Augustin, Guedegbe, B., Anagonou, S., Portaels, F., Meyers, W. Republique du Benin
- EP05** Implications of environmental mycobacterial infections for the epidemiology of leprosy. FINE, P.E.M., Floyd, S., Sterne, J., Ponnighaus, J.M. United Kingdom
- EP06** Early detection by ELISA among 33 new cases of leprosy in household contacts of multibacillary patients in Cebu (1985 - 1997). DOUGLAS, James, Klatser, P., Cellona, R., Abalos, R., Fajardo, Jr., T., Balagon, V., Walsh, G. U.S.A.
- EP07** Monitoring prophylactic treatment of ELISA positive contacts of leprosy patients in Culion. DOUGLAS, James, Chan, G., Cuncanan, A., Jr. U.S.A.
- EP08** Determinants in the development of leprosy among household contacts of leprosy patients in Culion Island, Philippines. CHAN, Gertrude, Douglas, J., Balis, A., Cerillo, N., Ilagan, R., Cuncanan, A. Philippines
- EP09** MILEP 2: sub-clinical leprosy infection among healthy contacts in Addis Ababa, Ethiopia. MENGISTU, G., Beyene, D., Gebre, N., Tesfa, L., Britton, S., Macdonald, M., Cree, I.A., Smith, W.C.S. Ethiopia
- EP10** Serological and PCR monitoring of the effects of preventive therapy against leprosy. CHO, Sang-Nae, Kim, J.-D., Walsh, G.P., Brennan, P.J. Republic of Korea

- EP11** Illusions from visual interpretation of leprosy control monitoring data. PARKASH, Inder. India
- EP12** Risk of development of leprosy among Culion contacts. CUNANAN, Arturo C., Douglas, J., Chan, G. Philippines
- EP13** Estimating hidden prevalence of Hansen's disease combining two related variables: diagnosis delay and grade of disability at time of diagnosis. FERREIRA, Jair, Mengue, S., Wagner, M., Duncan, B. Brazil
- EP14** Are the proportions of new cases by age group and by clinical form useful indicators to discriminate between low endemic and median endemic regions? FERREIRA, Jair, Wagner, M., Mengue, S., Duncan, B. Brazil

### **SESSION 3**

#### **Epidemiology II**

*Tuesday, 8 September 1998*

#### **13:00 (Room 3)**

- EP15** Historical serie of the leprosy prevalence on the state of Amazonas, an epidemiological and operational evaluation - from 1982 - 1997. PEDROSA, Valderiza, Sadahiro, M., Cunha, M., Brazil
- EP16** An epidemiological analysis of leprosy from 1951-1996 in Sichuan. WU, Xin-sheng, Ning, Y., Shi, L., Le, Z., Yang, J. China
- EP17** An epidemiological analysis of newly detected leprosy cases in recent ten years in Hubei Province, China. WU, Long-ai, He, R., Luo, W. China
- EP18** Epidemiological status of leprosy and its control in Beijing area. LI, Xiao-hau, Tan, D. China
- EP19** The waning of leprosy endemy in Armenia. MIRAKIAN, Mira. Republic of Armenia
- EP20** The incidence of leprosy among primary school children in central Ethiopia. HUNEGNAW, Mesfin, Krishnan, S.A.R., Gebre, S., Britton, S. Ethiopia
- EP21** Number of leprosy patients in Japan - a survey in 1995. GOTO, Masamichi, Kitajima, S., Imaizumi, M. Japan
- EP22** Epidemiological trends of leprosy in China: 1949-1996. XIANGSHENG, Chen. China
- EP23** Leprosy in Astrakhan Region of Russia. JUSCENKO, Anatoly A., Duילו, V.V., Parshin, M.P. Russia

- EP24** The impact on 12-year MDT on epidemiology of leprosy in Jiangsu Province. XIE, Zhi-zheng, Chen, N., Zhang, L., Wang, H. China
- EP25** Phrasing target on prevalence for elimination of leprosy by 2000 AD - justification. SUBRAMANIAN, M., Parkash, I., Krishnamoorthy, K. India
- EP26** Impact of MDT on leprosy with a special reference to monolesions and smear positivity among the new cases. BALA, Nanda Kishore, Shetty, J.N., Prasanna. India
- EP27** Evaluation of ten years of the leprosy control program in the State of Sao Paulo, Brazil - 1986-1996. TADA, Mitie, Marzliak, M.L.C., Lafratta, T., Nogueira, W., Simoes, O.J.G. Brazil
- EP28** Epidemiological surveillance system of leprosy relapses - State of Sao Paulo, Brazil - 1990-1997. TADA, Mitie, Marzliak, M.L.C., Opromolla, D. Brazil

#### SESSION 4

##### Epidemiology III

*Tuesday, 8 September 1998*

#### 13:00 (Room 4)

- EP29** The Bangladesh acute nerve damage study (BANDS): Description of the cohort. CROFT, Richard P., Richardus, J.H., Smith, W.C.S. Bangladesh
- EP30** Nerve function impairment and reactive events in a prospective cohort of leprosy patients at 24 months' follow-up. CROFT, Richard, Nicholls, P., Richardus, J., Anderson, A., Smith, C. Bangladesh
- EP31** Sensitivity and specificity of simple methods of classifying leprosy without the use of skin smears. SMITH, W.C.S., Croft, R., Nicholls, P., Richardus, J.H. United Kingdom
- EP32** Motor impairment without sensory impairment in leprosy. SMITH, W.C.S., Nicholls, P., Richardus, J.H., Croft, R. United Kingdom
- EP33** Factors in delaying diagnosis and treatment of leprosy - findings from the BANDS study. SMITH, W.C.S., Nicholls, P., Croft, R., Richardus, J.H. United Kingdom
- EP34** Gender, case detection and disability in leprosy in Bangladesh: A trend analysis. RICHARDUS, Jan Hendrik, Meima, A., Croft, R., Habbema, D. The Netherlands
- EP35** MILEP 2: Use of PNA in high through-put PCR for *M. leprae* detection. MACDONALD, M., Cree, I.A., Edward, V.K., Jadhav, R.S., Rao, J.R., Fernando, A., Shinde, V., Raiborde, P., Klatser, P., Ryon, J. and Smith, W.C.S. United Kingdom

- EP36** The epidemiology of *M. leprae* PCR positivity in an endemic community - preliminary findings from the MILEP2 study. SMITH, W.C.S., Smith, C.M., Edward, V.K., Rao, J.R., Jadhav, R.J., Fernando, A., Macdonald, M., Klatser, P., Ryon, J., Cree, I.A. United Kingdom
- EP37** MILEP2: Definition of leprosy transmission and protection within leprosy endemic populations. SMITH, Christine, Cree, I.A., Edward, V.K., Ryon, J., Bjune, G., Klatser, P., Smith, W.C.S. United Kingdom
- EP38** A cluster of cases of Hansen's disease in Marshallese residing in Hawaii. FRANKEL, Richard I., Maruyama, M.H., Ong, A.K.Y. U.S.A.
- EP39** Clinical risk factors in leprosy reactions: An epidemiological review of records from Northern Thailand. Smith, Trevor C., Ferris, P.R., CEGIELSKI, J.P. Thailand
- EP40** Epidemiological surveillance of the ocular disabilities in leprosy, Sao Paulo State, Brazil. Medina, Norma Helen, Tada, M., Marzliak, M.L.C., VIETH, H. Brazil
- EP41** Relationship of the leprosy patients in Turkey. Saylan, Turkan, SUTLAS, M. Turkey
- EP42** Rapid geographical information assessment for leprosy surveillance in large urban area. MARTELLI, Celina MT, de Andrade, A.L.S.S., Morais-Neto, O.L., Silva, S.A., Turchi, M.D., Castilho, E.A., Zicker, F. Brazil

## SESSION 5

### Control and Eradication I

*Tuesday, 8 September 1998*

#### 13:00 (Room 5)

- CO01** Leprosy elimination - Urgent action required. SANSARRICQ, Hubert. France
- CO02** Trend of leprosy in the leprosy mission assisted projects in Bangladesh, Ethiopia, India, Indonesia, Nepal and Tchad. CASABIANCA, Nathaniel M., Ong, M. Singapore
- CO03** Case detection through leprosy elimination campaigns in 21 districts of Bangladesh. Ali, Ahsan, LOBO, D., Talukdar, L.R., Ahmed, J.U., Begum, N., Ahmad, N. Bangladesh
- CO04** Prospects of eliminating leprosy: Quo vadis? 40 Years experience in a hyperendemic area. RAO, P.S. Sundar. India
- CO05** Can India reach leprosy eradication target by 2000? An epidemiological and statistical assessment. KUMAR, Anil. India

- CO06** The importance of (household) contacts in leprosy control. van Marrewijk, Corine, MEIMA, A., Chowdhury, S., Croft, R., Richardus, J.H., Habbema, D. The Netherlands
- CO07** Leprosy elimination monitoring - action plan for the next five years - State of Sao Paulo, Brazil. TADA, Mitie, Marzliak, M.L.C., Nogueira, W., Lafratta, T.E., Foss, N., Soubhia, R.M. Brazil
- CO08** Elimination strategy in leprosy - a study on its practicality. ABRAHAM, Thomas, Devadas, T., Ramana, V. India
- CO09** A study on the immediate after effects of leprosy integration in rural Tamil Nadu. ABRAHAM, Thomas, Devadas, T., Cheriyan, C., Ramana, V. India
- CO10** Modified leprosy elimination campaign in Bombay - the mega city. SINGH, M.G., Chavan, S.B. India
- CO11** Leprosy in low-endemic hilly areas of U.P., India: Problems and strategies to achieve the elimination goal. BHARADWAJ, V.P., Hatwal, A.R., Samant, I.S. India
- CO12** Situacion epidemiologica de la leprae en Brasil: Perspectivas de la eliminacion de la misma como meta. OLIVEIRA, M.L.W., Glatt, R., Alvim, M.F.S. Brazil
- CO13** Leprosy elimination in Brazil and the social communication process. Castro, C.R., VENTURA, D.V.R., Patroclo, M.A.A., Oliveira, M.L.W., Barreto, S.M. Brazil
- CO14** Pace of leprosy elimination and support teams - BIHAR. VIJAYAKUMARAN, P., Prabhakar Rao, T., Krishnamurthy, P. India

## SESSION 6

### Control and Eradication II

*Tuesday, 8 September 1998*

#### 13:00 (Room 6)

- CO15** Impact of integration on leprosy control programme in Nepal. BURATHOKI, Kamala. Nepal
- CO16** Instant new case detection - an experience in Bihar State, India. PRABHAKAR RAO, T., Vijayakumaran, P., Krishnamurthy, P., Mishra, R.K., Antonysamy. India
- CO17** National leprosy elimination campaign - Brazil (LEC). Valladares, D., Ledra, V.J., Glath, R., Pereira, G.F., OLIVEIRA, M.L.W. Brazil
- CO18** Combined tuberculosis and leprosy control programmes: Lessons from Nigeria. CHUKWU, J.N. Nigeria

- CO19 Buruli ulcer, an important emerging mycobacterial skin disease in West Africa.** PORTAELS, Françoise, Aguiar, J., Domingo, M.-C., Guedenon, A., Steunou, C., Meyers, W. Belgium
- CO20 Trend of leprosy in Damien Foundation projects in India.** KRISHNAMURTHY, P. India
- CO21 Leprosy defaulter retrieval and management. Amazonas state, Brazil.** DOS SANTOS, Emilia Pereira, Souza, C.O., Maroja, M. De F., Cunha, M. Da G.S. Brazil
- CO22 Leprosy elimination campaign combined with the anti-polio vaccination - municipality of Rio de Janeiro-Brazil.** ANDRADE, Vera, Moreira, T.M.A., Tardin, R.T., de Castro, A.J.W., de Sousa, A.C.M. Brazil
- CO23 The profile of the utilization of health care ambulatorial services by leprosy patients in Brazil.** DE CASTRO, Antonio Joaquim Werneck, Andrade, V., Amaral, T.C.L. Brazil
- CO24 Lucha antileprosa en la ciudad de santo domingo, logros y problemas periodo 1973-1997.** BOGAERT, Huberto D., Lora, M.O. Dominican Republic
- CO25 Are there ghost leprosy patients in Nigeria?** OGBEIWI, Osahon. Nigeria
- CO26 Development of sustainable leprosy control services by adjusting leprosy organizations in Shanghai.** LIU, Guo-wen, Chen, J., Yue, J., Li, F., Wang, Z., Zhang, R., Zhang, J. China
- CO27 Lucha Antileprosa en Republica Dominicana periodo 1973-1997.** BOGAERT, Huberto, Alcantra, F.E.S. Dominican Republic
- CO28 A marriage of convenience? Experience of combining leprosy and tuberculosis programmes in Nepal.** KARN, Virendra Lal, MacRorie, R. Nepal

## **SESSION 7**

### **Control and Eradication III**

*Tuesday, 8 September 1998*

#### **13:00 (Room 7)**

- CO29 Community awareness and involvement.** ANTIA, Noshir. India
- CO30 Volunteer mobilisation campaign for leprosy eradication (VMC).** CHERIYAN, C.S., Abraham, T., Devadas, T. India
- CO31 Cost control in managing leprosy programmes - a study report.** BALASUBRAMANIAN, J., Ravichandran, J. India

- CO32** Crash population survey - a tool for demonstrating rapid case detection. RAMANA, M.V., Devadas, T.J., Abraham, T. India
- CO33** The single health system and the need for remodeling the proposal for upgrading of human resources for Hansen's disease control. METELLO, Heleida Nobrega, Concalves, O.S.J., Nogueira, W. Brazil
- CO34** Implementation of tuberculosis programme in an ongoing tribal leprosy control project strategy and results. Bhuskade, R.A., RAO, V.Prabhakara, Sudhakar, K.S., Rao, P.V.Ranganadha, Desikan, K.V. India
- CO35** Effect of health education and training on case detection in leprosy. Li, Ting-Guang, Yang, J., Ran, S.-P., WEN, Y., Li, H.-Y. China
- CO36** Cost factors of leprosy management. NAIK, S.S., Kingsley, S., Narayanaswamy, P.S., Ganapati, R. India
- CO37** How to detect leprosy patients in an integrated health system when reaching the goal of elimination? Experience from Marchoux Institute. TIENDREBEOGO, Alexandre, Sow, S.O., Doumbia, M.T.et F. Mali
- CO38** Media (radio/television) can play a major role in defusing stigma, increase in voluntary reporting and ultimately assist in the elimination of leprosy. ROY, P.K., Victor, V. India
- CO39** Empowering the community to do case detection and dissemination of scientific facts of leprosy - A preliminary report. NANDA, N.K., Ratre, K.R., Sen, B.C., Das, K. India
- CO40** A suggested strategy for the case detection activities in leprosy. BABU.G, Rajan, Palla, J.P., Robins, T., Nanda, N.K., Baskaran, T.J., Kerketta, W.J., Emmanuel, M., Jeyaraj, P. India
- CO41** Supervision: NA effective alternative for monitoring and managing leprosy control activities. MAGALHAES, M.C., Vasconcellos, J.L., Oliveira, M.L., Ventura, D.V.R. Brazil
- CO42** Case finding by vertical service combined with basic health care. YANG, Jun. China

## SESSION 8

### Control and Eradication IV

*Tuesday, 8 September 1998*

**13:00 (Room 8)**

- CO43** Past and present status of Hansen's disease (leprosy) in Taiwan - successful leprosy control in Taiwan. CHAO, yung-fa, Lai, H. Taiwan

- CO44 MDT in Betim - from implementation to the present (1987 - 1997). Ferreira, Maria, ORSINI, M. Brazil
- CO45 Leprosy in Karakalpakstan. Prospects for its eradication. Eschanov, T.B., Vdovina, N.A., Ibraimov, M.I., JUSCENKO, A.A. Russia
- CO46 Leprosy situation in I.R. Iran. GHASSEMI, Reza Labbaf, Sadr, E., Moghaddam, E.M. Iran
- CO47 Reflexions sur la prise en charge therapeutique et la rehabilitation sociale d'un groupe de malades Hanseniens aores un soioi de longue Duree (1963-1998). GARRIGUE, Rene. France
- CO48 Leprosy control in Sudan: Progress under difficult circumstances. IDLE, Gwen, Buddingh, H. Sudan
- CO49 Government/NGO collaboration in leprosy elimination activities - the Bangladesh experience and model. ALI, Ahsan, Lobo, D., Talukdar, L.R., Ahmed, J.U., Miller, L. Bangladesh
- CO50 Erradication de la lepre en Tunisie. ZAHAF, A., Meziou, T.J., Turki, H., Bouassida, S., Walha, N., Boudaya, S. Tunisia
- CO51 Increasing the MDT coverage in isolated area of nomadic people by using community leader approach. DAY, R., Ribi. Indonesia
- CO52 A comparison of experiences with different methods of intensified case detection applied in some states of Eastern Nigeria. WENDL-RICHTER, H.-U. Nigeria
- CO53 Geo-Medical analysis and their impact on a human disease: A case study of leprosy in Tamil Nadu, India. SARAVANABAVAN, V., Shanmuganandan, S. India
- CO54 Is our society matured enough to accept leprosy into general health system? PRABHAVALKAR, A.B., Dongre, V.V. India
- CO55 Publicity results of "The International Leprosy Day". PAN, Chun-zhi. China
- CO56 Application of rank sum ratio in evaluating the outcome of leprosy control programme. XIANG, Li-fu, Jin, L., Li, Y. China

## SESSION 9

### Control and Eradication V

*Tuesday, 8 September 1998*

**13:00 (Room 9)**

- CO57 Leprosy elimination in Dharavi: The largest slum in Asia. REVANKAR, C.R., Thiruvengadam, R., Girija, D., Samy, M.S.A., Pai, V.V., Ganapati, R. India

- CO58** The initial effect of sapel operated in leprosy endemic area. LIU, Feng-wu, Huang, W. China
- CO59** Leprosy elimination campaign in a metropolitan leprosy project. REVANKAR, C.R., Bulchand, H.O., Chavan, K., Salunkhe, S.S., Samy, M.S.A., Pai, R., Deshpande, S.S., Ganapati, R. India
- CO60** A study of comprehensive measures used in leprosy control for promoting basic elimination of leprosy. ZHAO, Tian-en, Du, L., Pan, Y., et al. China
- CO61** Survey of leprosy in unapproachable and uncovered area. NAIK, S.S., Ganapati, R., Thakar, U.H., Pharande, A. India
- CO62** Impact of multidrug therapy in an endemic district in ten years. NUTHAKKI, Bramhachary S.R. India
- CO63** Strategy of elimination after 2000 A.D. BANDYOPADHYAY, Sudhakar. India
- CO64** Leprosy after the year 2000: Scenarios on the basis of the leprosy simulation model SIMLEP. Smith, W.C., Meima, A., Richardus, J.H., van Oortmarssen, G., HABBEMA, D. The Netherlands
- CO65** Progress of leprosy elimination activities and trends. Profile of leprosy cases over a five-year period from 1993-1997 in Bangladesh. ALI, Ahsan, Lobo, D., Yovapue, S., Ahmed, J.U., Ahmed, S.U. Bangladesh
- CO66** Leprosy elimination - supplementing the state's program by NGO. SHAH, Atul, Shah, N., Salelkar, A., Rege, V. India
- CO67** The drive to eliminate leprosy in Bangladesh: Results of surveys in Gaibandha and Jaypurhat. JAUCIAN, Arthur. Bangladesh
- CO68** An analysis on routine modes of case finding. LI, Jin-lan, Liu, X. China
- CO69** Leprosy case detection in low endemic situation. ZHAO, Zi-shan, Zhang, X., Guo, Z., Liao, X. China
- CO70** Study of effectiveness of skin diagnostic camps in leprosy case detection. BHORE, Prafulla. India

## **SESSION 10**

### **Psycho-Social I**

*Tuesday, 8 September 1998*

#### **13:00 (Room 10)**

- PS01** Epidemiological and socio-cultural impact of the social marketing programme for leprosy in Sri Lanka. GREWAL, Penny, Kasturiaratchi, N., Gunawardene, P., Dewapura, D., Settinayake, S., Somatunga, L., Weiss, M., Ariyaratne, V. Switzerland

- PS02** Lingering problems of poor community perception, discrimination and social stigma against leprosy. A study of youths in South-Eastern Nigeria. MEREMIKWU, M.M., Odigwe, C.O., Ezedinachi, E.N.U., Nkanga, D.G., Meremikwu, A.N. Nigeria
- PS03** Community actions towards patients with leprosy in Eastern Nepal. de Geus, L., de Stigter, H., HEYNDERS, M.L. Nepal
- PS04** The socioeconomic aspects of the population affected by leprosy in Sorocaba, Brazil. BAKIRTZIEF, Zoica. Brazil
- PS05** A healthy village project in the UK. BROWNE, Derek. United Kingdom
- PS06** Activities for enlightenment on Hansen's disease in Japan. MURAKAMI, Akitoshi, Yuhu, M. Japan
- PS07** Assessment of the factors behind high default rates among leprosy patients in Nepal. (analysis ongoing). HEYNDERS, M.L. Nepal
- PS08** Focus group workshops on leprosy and its impact among rural communities in northern India - a preliminary study. PALLA, Jay, Rao, P., Masih, D. India
- PS09** Determinants of MDT treatment abandonment by leprosy patients in Citrolandia. ORSINI, Maria Beatriz Penna, Figueiredo, G.S., Porto, I.N., Ferreira, M.A.A., Apipe, M.N.V., Lima, R.C. Brazil
- PS10** Lessons for leprosy programmes from social marketing and social advertising: using theoretical frameworks to improve the effectiveness of campaigns. GREWAL, Penny, Dewapura, D., Gunawardene, P., Settinayake, S. Switzerland
- PS11** A study of knowledge, attitude and practices (KAP) among leprosy patients in a leprosy control unit. KUNDU, Manas. India
- PS12** Almenara project, what freedom theology can do for leprosy control? Guedes, Luciula, Climaco, J., Mauro, F., DE ABREU, E. Brazil
- PS13** Leprosy stigma: The phenomenon and its relation with exclusion locus and neighbourhood. DE ABREU, Eduardo. Brazil
- PS14** The leprosy patients attitude towards their chronic and recurring ulcers - a study report. Kathe, V., NAIK, S.S. India

## SESSION 11

### Clinical I

Tuesday, 8 September 1998

#### 13:00-17:00 (Exhibition Hall 2)

- CL57** *M. leprae* in peripheral nerve - 4 years after completion of MDT-PB. ABRAHAM, Selvasekar, Ebenezer, G., Vijayakumaran, P. India 001
- CL58** "Flu" syndrome on monthly rifampicin dose. First case reported from Yemen. Al-Samie, Abdul Rahim, AL-QUBATI, Y. Republic of Yemen 002
- CL59** The diagnosis of pure neural leprosy among patients with symptoms of peripheral neuropathy: A followup study. Sekacel, M., ANTUNES, S.L.G., Jardim, M., Nery, J.A.C., Sarno, E.N. Brazil 003
- CL60** Leishmaniasis anergica de Republica Dominicana. BOGAERT, Huberto, Quinones, M.R. Dominican Republic 004
- CL61** Lepra infantil. BOGAERT, Huberto D., Castellazzi, Z. Dominican Republic 005
- CL62** Five kinds of diseases with enlarged peripheral nerves misdiagnosed or suspected as pure neuritic leprosy. CHEN, Jia-kun. China 006
- CL63** Differential diagnosis of Leishmaniasis cutis and lepromatous leprosy - one case report. DENG, Yun-shan, Xu, H., Li, Y., Zhang, J., Xue, J. China 007
- CL64** Thermal threshold tester for detection of small fibre nerve damage before onset of clinical neuritis. Hansen, S., DUNCAN, M.E., Jamal, G.A., Julu, P.O.O., Kazen, R. United Kingdom 008
- CL65** Use of laser doppler flowmetry in the detection of autonomic nerve deficit in leprosy. Ward, G., DUNCAN, M.E., Challis, A., Selassie, L., Kazen, R. United Kingdom 009
- CL66** Valoracion de lesiones troficas en enfermos de lepra inactivos clinica y bacteriologicamente hace mas de 10 anos. ECHEVARRIA, Jose, Ochoa, V., de las Aguas, J., Diaz de Otazu, M. Spain 010
- CL67** Registration form neuropathic foot. Hoeksma, A.F., Kleij, AJ V.D., FABER, W.R., Dahmen, R., de Valk, H.W. The Netherlands 011
- CL68** Low frequency of testicular dysfunction in 125 patients with lepromatous leprosy - A retrospective study. Leal, Angela Maria O., Magalhaes, P.K.R., FOSS, N.T. Brazil 012
- CL69** Erythema nodosum leprosum with specific bone lesions: Case study. GOMES, Maria Katia, Igreja, R.P., Pinto, G.A., Castro, M.G.C., Trope, B.M., Fernandes, N.C., Maya, T.C. Brazil 013

- CL70** 7 Control granuloma multiforme (G.M.). A non leprosy disease with a difference - no known chemotherapy to cure it. HUSKINSON, Roland A.C. United Kingdom 014
- CL71** Anti-peripheral nerve antibodies in blood serum of leprosy patients. Telesheva, I.V., Dyachina, M.N., Belopasov, V.V., JUSCENKO, A.A. Russia 015
- CL72** A method of assessment of functional state of peripheral nerve system in leprosy patients with using electroacupuncture diagnosis. Shats, E.I., Naumov, V.Z., JUSCENKO, A.A. Russia 016
- CL73** An experience of using pharmacopuncture in treatment of chronic neuritis in leprosy patients. Shats, E.I., JUSCENKO, A.A. Russia 017
- CL74** Average age of death and frequency of cancers - Comparison between lepromatous and tuberculoid patients. KITAJIMA, Shin-ichi, Goto, M., Imaizumi, M. Japan 018
- CL75** Twenty five leprosy patients with histoid leproma. LIANG, Zhong-yuan. China 019
- CL76** Leprosy and pregnancy: a study of reactional states. MAROJA, Maria de Fatima, de Sousa, M.S.T., Ferreira, A.B., Salem, J.I. Brazil 020
- CL77** Nasal lesions on Hansen's disease: Therapeutic and prophylactic procedures. MOREIRA, Joao S., Nery, J.A.C., Aprigliano F.F., Fabri, L., Pantoja, A., Diniz, F. Ribeiro, F.C. Brazil 021
- CL78** Classifying leprosy patients by using the number of skin lesions. MOREIRA, Tadiana M.A., Andrade, V. Brazil 022
- CL79** Descriptive analysis of a series of cases with HIV/*M. leprae* co-infection treated in the leprosy out-patient clinic, laboratory of leprosy. NERY, Jose A., Galhardo, M.C.G., Perisse, A.R.S., Valentim, A., Vieira, L.M.M., Sampaio, E.P. Brazil 023
- CL80** Multibacillary leprosy among the 0 to 14 years of age group: Data gathered at the leprosy outpatient clinic of the Oswaldo Cruz Foundation (FIOCRUZ), Rio de Janeiro, RJ - Brazil. NERY, Jose Augusto, Garcia, C.C., Sales, A.M., Gallo, M.E.N., Vieira, L.M.M. Brazil 024
- CL81** Erythema nodosum leprosum with leukemoid reaction. PEREZ, Montserrat, Perez, E., Puig, L., Pujol, R., Alomar, A. Spain 025
- CL82** CK, CK-MB, LDH and isocitric dehydrogenases in leprosy. RAJENDRAN, M., Suribabu, C.S., Murthy, P.N., Rao Bhau, L.N. India 026
- CL83** Is the response to steroids in neuritis maintained in the long term? REDDY, Raj Gopal, Suneetha, S., Lockwood, D. India 027
- CL84** Pulmonary tuberculosis and tuberculoid leprosy. RODRIGUES, Mirian Lane O., Moscardini, V.A.M., Arruda, D., Foss, N.T. Brazil 028

- CL85** Necrotizing erythema nodosum and thalidomide. RODRIGUES, Mirian Lane de O., Takada, M.H., Roselino, A.M.F., Foss, N.T. Brazil 029
- CL86** Inguinal ganglionic reaction in Virchow leprosy. RODRIGUES, Mirian Lane O., Chiossi, M.P.V., Sassamoto, C.A., Souza, C.S., Nahas, R., Arruda, D., Foss, N.T. Brazil 030
- CL87** Late improvement in chronic cutaneous Leishmaniasis can mimic lepromatous lesion of leprosy in Province of Kerman. SADOLLAH, Shamsadini. Iran 031
- CL88** Lucio's phenomenon: Report of Brazilian cases. SOUZA, Cacilda S., Figueiredo, F., Roselino, A.M.F., Foss, N.T. Brazil 032
- CL89** Fixed drug eruption due to rifampin. STEPHEN S., John. India 033
- CL90** International Leprosy Congress 1998. EILEEN, Tan, Swee, S.C. Singapore 034
- CL91** Leprosy in HIV+ patients: report of two cases. Yoshioka, Marcia, Floriano, M., Alonso, C., Uehara, C., Maeda, S., Porro, A., TOMIMORI-YAMASHITA, J. Brazil 035
- CL92** Characteristics of patients in treatment in the leprosy outpatient clinic of the Oswaldo Cruz Foundation (FIOCRUZ), Rio de Janeiro, RJ - Brazil. VIEIRA, Lelia Maria, Nery, J.A.C., Ferreira, M.L.C., Matos, H.J., Gallo, M.E.N. Brazil 036
- CL93** An analysis of sensory loss in 152 leprosy with disabled hands and feet. ZHANG, Lian-hua, Jing, Qiong-hua. China 037
- CL94** Observation of the effects in 24 cases of silent neuritis treated with prednisone. Zhou, Long-chao, ZHOU, Y. China 038

## SESSION 12

### Disability Control I

*Tuesday, 8 September 1998*

#### 13:00-17:00 (Exhibition Hall 2)

- DC43** Optimisation of a monofilament test for sensibility for use in a field programme of prevention of impairment. ANDERSON, Alison M., Reed, N., van Brakel, W.H., Croft, R.P. Nepal 039
- DC44** Age specific normal thresholds for sensibility testing with monofilaments in a Nepali population. ANDERSON, Alison M., van Brakel, W.H. Nepal 040
- DC45** Interventional study of a self care camp for the leprosy patients with disability. BARKATAKI, Pramila. India 041

- DC46** Prevention of disability through measurement of underlying peripheral nerve involvement. BELL-KROTOSKI, Judith, Lehman, L., Horizonte, B., Gerais, M., Jerskey, R U.S.A. 042
- DC47** Occurrence of lower extremity venous ulceration in Hansen's disease - Etiology and treatment. BRASSEAU, Denise, Hoard, A. U.S.A. 043
- DC48** Study of pressure distribution in different leprosy footwear. Bourrel, P., Watson, J., DEEPAK, S., Klenerman, L., Linge, K. Italy 044
- DC49** Sustainability of field based disability care program in leprosy over 4 years. GANAPATI, R., Reddy, K.N., Kingsley, S., Revankar, C.R., Pai, V.V. India 045
- DC50** Dynamics of impairment during and after treatment. Meima, Abraham, Saunderson, P., Gebre, S., Desta, K., HABBEMA, D. The Netherlands 046
- DC51** Stop nerve involvement in Hansen's disease. HOARD, Alicia, Bell-Krotoski, J., Figarola, J., Brasseaux, D. U.S.A. 047
- DC52** Effect of sole ulcers control in 284 cases: A report of 6-year surveillance. HUANG, Xian-Jun. China 048
- DC53** Change of disability grading in leprosy patients before and after MDT/WHO (A case control study of 847 RFT cases in a urban leprosy control program in the southwest of Bangladesh). ISHIDA, Yutaka, Picorini, L., Guglielmelli, E., Mondol, B. Bangladesh 049
- DC54** Profiles of nerve function impairment and prevention of disability activities at the H.D. Clinic, LAC & USC Medical Center, Los Angeles, California. JERSKEY, Robert S., Rea, T., Mora, H. U.S.A. 050
- DC55** Steroid therapy and the management of severe sensory loss in hands and feet of leprosy patients: Findings and recommendations. JERSKEY, Robert S., Sugumaran, D.S.T., Bell-Krotoski, J. U.S.A. 051
- DC56** Nerve function impairment in leprosy - a report from national POD pilot project. JIANG, J., Watson, J.M., Wei, X.Y., Zhang, G.C. China 052
- DC57** Low cost disability management in leprosy - an experiment in an Urban slum. KINGSLEY, S., Tripathy, A.P., Ganapati, R., Pillai, A.R.K. India 053
- DC58** Profile of leprosy impairment and deformity in Vizianagaram District. KUMAR, B.P. Ravi. India 054
- DC59** Multidisciplinary approach for prevention of disability in Nepal Leprosy Referral Centre. POON, Yuek Ming. Nepal 055
- DC60** Improving compliance of leprosy patients for disability care. REVANKAR, C.R., Joshi, A.N., Kingsley, S., Ganapati, R. India 056

- DC61** A comparative study of ocular morbidity amongst the leprosy affected hospital indoor patients and the residents of after care leprosy colonies. SAMANTA, Swapan K., Roy, I.S. India 057
- DC62** Assessment of disability due to leprosy in relation to EHF score. SAUNDERSON, Paul, Amenu, A., Abebe, G. Ethiopia 058
- DC63** Intra- and inter-observer variation in assessing the EHF score. SAUNDERSON, Paul, Currie, H., Buass, P., Meima, A. Ethiopia 059
- DC64** The EHF score: What is it? SAUNDERSON, Paul, Currie, H., Byass, P., van Brakel, W. Ethiopia 060
- DC65** Techniques for assessment of improvement in claw hand and its relevance to disability management. SHAH, Neela, Shah, A. India 061
- DC66** Effects of eyes, hands and feet self-care in leprosy disabled patients for six years. SHEN, Jin-Jin, Xun, Y., Chen, Q. China 062
- DC67** A clinical study on orbicularis oculi muscle lesion in leprosy. WANG, Qin, Zhang, R., Jia, J., Wu, X. China 063
- DC68** Benefits of self care/occupational therapy. WIENS, Carlos. Paraguay 064
- DC69** Diabetic foot rehabilitation in Istanbul Leprosy Hospital. YUKSEL, Ayse, Ozkan, T., Haciosmanoglu, L., Kultur, A. Turkey 065
- DC70** Effectiveness of protective orthopaedic shoes in neuropathic and deformed feet in leprosy. YUKSEL, Ayse, Ozkan, T., Haciosmanoglu, L., Erdogan, H. Turkey 066
- DC71** Three-year results of self-care among 856 disabled people affected by leprosy. ZHENG, Zhi-ju, Zhang, G., Yan, L., Jiang, J., Zheng, D. China 067

### **SESSION 13**

#### **Rehabilitation I**

*Tuesday, 8 September 1998*

#### **13:00-17:00 (Exhibition Hall 2)**

- RE15** First Brazilian electromyography (EMG) network between Hansen's disease (HD) rehabilitation centers. GARBINO, Jose. Brazil 068
- RE16** Evolution of nerve damage in leprosy - an integrated view of two decades. ANTIA, Noshir, Shetty, V. India 069
- RE17** Socio-economic rehabilitation of people with leprosy towards a world without leprosy by the year 2000 AD and beyond. AKAI, Paul. Kenya 070

- RE18** Master plan for a socio economic rehabilitation of the displaced leprosy affected persons in India - a proposal. Srinivasan, G.R., DEVADAS, T. India 071
- RE19** Social-economic rehabilitation of leprosy - an analysis report. GUO, Zheng-dong, Liao, X., Zhao, Z., Zzhang, X. China 072
- RE20** Grip-aids to improve oral health in highly disabled leprosy patients. KINGSLEY, S., Tripathy, A.P., Pai, V.V., Ganapati, R. India 073
- RE21** L'usage de botte de unna elastique dans le traitement d'ulcere planter en patients lepreux: Manaus-Am-Bresil. MORAES, M.A.Q., Cunha, P.A., Sales, T.H.S., Oliveira, H.A. Brazil 074
- RE22** A preliminary report of community based rehabilitation in urban and rural area. Joshi, S., Kathe, P., NAIK, S.S. Mumbai 075
- RE23** Activities of HANDA Association in Guangzhou for 1996-1997. YANG, Lihe, Winslow, R.C., Tang, X. China 076

## **SESSION 14**

### **Surgery I**

*Tuesday, 8 September 1998*

#### **13:00-17:00 (Exhibition Hall 2)**

- SU15** A functional hand assessment. Thevoz, Philippe, BENBOW, C., Kazan, R. Ethiopia 077
- SU16** Therapeutic surgery for leprosy patients performed in Manaus, state of Amazonas, Brazil. CUNHA, Pedro Aurelio, Alves, M.V., Moraes, M.A., Rola, E.C., Nascimento, J.Y. Brazil 078
- SU17** Plastic and reconstructive surgery in the treatment of plantar ulceration of leprosy: Principle and practice. DONG, Li-wen, Li, F., Wang, Z, Jiang, J., Zhang, G., Zhang, J., Ye, Y. China 079
- SU18** Surgical experience in ocular leprosy. GOUD, Alampur India 080
- SU19** Total intravenous anaesthesia (TIVA) for intraoperative electroneurodiagnostics (IOE) and time consuming neurolysis of peripheral nerves affected by leprosy. KNOLLE, Eric, Turkof, E., Ciovica, R., Katri, B., Richard, B. Austria 081
- SU20** Nursing care of pre-and post-surgical correction of footdrop in leprosy. LIN, Xiu-hua, Jiang, Z.L China 082

- SU21 Extracapsular cataract extraction and intraocular lens implantation in leprosy patients: Visual outcome and complications.** Batistella, Gretchen, MAAKAROUN, M., de Castro, A.V. Brazil 083
- SU22 Punch grafting in non-healing trophic ulcers in leprosy.** Tripathi, S.K., MISHRA, R.N., Amar, A.K. J. India 084
- SU23 Surgical correction of thumb of median and ulnar paralysis. Long-term comparative follow-up study in 111 hands.** NARAYANAKUMAR, T.S. India 085
- SU24 The restoration of protective sensibility in the hand by digital nerve translocation.** OZKAN, Turker, Gulgonen, A., Yuksel, A., Erdogan, H., Saylan, T. Turkey 086
- SU25 Flexor aponeurotic release for resistant adaptive shortening of long flexors in claw hands in leprosy.** RATH, Santosh. India 087
- SU26 Cataract surgery in Pal's - Calcutta experience.** ROBERTS, Helen G. India 088
- SU27 Correction of foot drop in leprosy by tibialis posterior transfer.** SANE, Sanjay, Mehta, J.M. India 089
- SU28 Newer dimensions in tissue cover for plantar ulcers.** SHAH, Atul. India 090
- SU29 Intraoperative electroneurodiagnostics in peripheral nerves affected by leprosy: Techniques, implementation and limitations.** TURKOF, Edvin, Richard, B., El-Dahrawi, M., Ciovica, R., Kamal, S., Tambwekar, S. Austria 091
- SU30 Microsurgical interfascicular neurolysis of the main trunk and all affected peripheral branches of leprous facial nerves can avoid transfer procedures.** TURKOF, Edvin, Richard, B., Knolle, E., Katri, B., Ciovica, R., Tambwekar, S. Austria 092

## **SESSION 15**

### **Miscellaneous**

*Tuesday, 8 September 1998*

#### **13:00-17:00 (Exhibition Hall 2)**

- EP63 Leprosy in Astrakhan Region of Russia.** JUSCENKO, Anatoly A., Duiko, V.V., Parshin, M.P. Russia 093
- EP64 Leprosy in Karakalpakstan. Prospects for its eradication.** Eschanov, T.B., Vdovina, N.A., Ibraimov, M.I., JUSCENKO, A.A. Russia 094
- MI54 A method of storing lepromas.** JUSCENKO, Anatoly A. Russia 095

- PS50** Knowledge and attitude of PHC workers in Ibadan Metropolis towards leprosy and its integration into PHC services. OLASEINDE, Raymond O. Nigeria 096
- TR36** The differences between health workers' and patients' interpretations of some terms used in leprosy control: Implications for health education. EBOH, William. Nigeria 097
- CO113** Propose of Niteroi to elimination of leprosy by the year 2000. W.DE OLIVEIRA, Cortes Jose. Brazil 098
- RE24** Kivuvu - More a refuge than a rehabilitation center. NDOMBE, Martin, Dunda, B Congo, D.R. 099
- DC72** Using natural resources. NUMBI, Jean Felly Mukalayi. Democratic Republic of Congo 100

## **SESSION 16**

### **Clinical II**

*Wednesday, 9 September 1998*

#### **13:00 (Room 1)**

- CL01** Markers for reaction. FABER, W.R., Pool, T.vd, Das, P.K. The Netherlands
- CL02** Neurological assessment of a cohort of children born to mothers with leprosy and healthy controls (A9 Study) - 1. Clinical and conventional tests. DUNCAN, M.E., Hungnaw, M., H/Mariam, H.S., Selassie, L., Melaku, Z., Kazen, R., Challis, A. United Kingdom
- CL03** Neurological assessment of a cohort of children born to mothers with leprosy and healthy controls (A9 Study) - 2. Tests of small nerve dysfunction. DUNCAN, M.E., Hungnaw, M., H/Mariam, H.S., Selassie, L., Melaku, Z., Kazen, R., Hansen, S., Jamal, G.A., Julu, P.O.O., Ward, G., Challis, A. United Kingdom
- CL04** Assessment of the A9 study nerve function tests, hypothesis and applications for leprosy eradication. DUNCAN, M.E., Hungnaw, M., H/Mariam, H.S., Selassie, L., Melaku, Z., Kazen, R., Hansen, S., Jamal, G.A., Julu, P.O.O., Challis, A. United Kingdom
- CL05** Facial "burning sensation" in middle-aged female leprosy patients - A diagnostic blind spot. DUNCAN, M.E., Hungnaw, M. United Kingdom
- CL06** Martin-Gruber anastomosis: Anatomic and electrophysiologic studies. Almeida, Jorge, Vitti, M., GARBINO, J. Brazil
- CL07** The influence of HIV-1 infection on leprosy patients treated with multidrug therapy (MDT) in Western Kenya. OREGI, P.A., Okello, C.M., Obura, M., Okuku, P. Kenya

- CL08** Bacteriological positivity of patients in community over a period of 13 years. VARIGETI, Jayaraj, Achamma, M. India
- CL09** Sensory & motor function follow up of hands of MB patients under MDT. BHATKI, W., Kamble, R., Kothare, K. India
- CL10** Retrospective analysis of 194 leprosy cases in Yemen. Mekhlafi, Ghaleb Aklan, AL-QUBATI, Y. Republic of Yemen
- CL11** Dental problems of leprosy patients in Bangladesh. JAUCIAN, Larcel Sharon. Bangladesh
- CL12** Incidence of neuritis among paucibacillary leprosy patients during treatment and surveillance. JOHN, Annamma S., Babu, G.R., Vijaykumar, D., Roberts, H., Dutta, A. India
- CL13** A case of phimosis due to borderline tuberculoid leprosy. MANI, Mohan Z., Mammen, K. India
- CL14** A propos d'un cas de lepre lepromateuse masquee. MEZICO, T.J., Zahaf, A., Bouassida, S., Masmoudi, A., Boudaya, S., Turki, H. Tunisia

## SESSION 17

### Clinical III

*Wednesday, 9 September 1998*

#### 13:00 (Room 2)

- CL15** Pupic cycle time and autonomic dysfunction in leprosy. MAAKAROUN, Monica, de Castro, A.V., Lana, M.A. Brazil
- CL16** An investigation on ocular leprosy in 1897 patients. WANG, Bao-ren, Wang, S., Zhu, Z., Jiang, Z. China
- CL17** 13 Years of longitudinal follow-up study of eyes in leprosy. RAJAN, Muthiah Arokia. India
- CL18** An epidemiological survey of eye blindness and low vision in 1045 leprosy patients. LIANGBIN, Yan, Guocheng, Z., Wenzhong, L. China
- CL19** Longitudinal study of ocular complications in MB leprosy patients under WHO-MDT. RAVANES, Jesus M., Cellona, R.V., Balagon, M.F., Abalos, R.M., Tan, E.V., Walsh, G.P. Philippines
- CL20** Dry eye in leprosy. TANG, Xin. China
- CL21** Corneal ulcers in leprosy. John, Deepa, DANIEL, E. India

- CL22** Changes in the manifestations of lepromatous leprosy. Observations of a field worker. Theodore, M. Robins, PRASAD, V.P.S. India
- CL23** Adrenal function in male leprotics. ABDEL-HAFEZ, Kamal, El-Dine Ghoneimal, S., El-Tonsy, M.H., Hamouda, E. Egypt
- CL24** Testicular function in patients with leprosy. VEGA-LOPEZ, Francisco, Tapia, R., Serrano, G., Castro, E., Fonseca, M., Saul, A. United Kingdom
- CL25** A study of morphological changes in adult leprosy patients. QAMRA, Suneel, Ghei, S., Sengupta, U., Veeraraju, P., Satyanarayanan, M., Kumar, A. India
- CL26** Evaluation of facial nerve by magnetic resonance imaging (MRI) in leprosy patients. TOMIMORI-YAMASHITA, Jane, Floriano, M., Yamashita, H. Brazil
- CL27** Lipid metabolism in leprosy patients. Naumov, V.Z., JUSCENKO, A.A., Lozovskaya, M.V., Tsemba, V.D. Russia
- CL28** Intra-operative electroneurodiagnostics to detect the most proximal leprosy neuropathology in sciatic nerve. RICHARD, Bruce, Turkoff, E., Khatri, B., Lucas, S. Nepal

## SESSION 18

### Clinical IV

*Wednesday, 9 September 1998*

#### 13:00 (Room 3)

- CL29** Management of steroid resistant patients with severe episodes of painful ENL with repeated fresh transfusion and minimal dose of rifamycin and clofazimine. SAHA, Kunal, Agarwal, S.K., Chakrabarty, A.K. India
- CL30** Risk factors for erythema nodosum leprosum in lepromatous leprosy. Manandhar, Rakesh, LeMaster, J., ROCHE, P. Nepal
- CL31** Ulcerated Type I reaction. OPROMOLLA, D., Fleury, R. Brazil
- CL32** Peripheral autonomic nerve dysfunction in asymptomatic leprosy contacts. WILDER-SMITH, A., Wilder-Smith, E. Switzerland
- CL33** Reversal (DTH) reaction followed by ENL: a distinctive subset of patients. REA, Thomas, Sieling, P.A. U.S.A.
- CL34** Thyroid status in genesis of leprosy neuritis. Balybin, E.S., JUSCENKO, A.A. Russia
- CL35** Studies on reaction, neuritis and deformity of MB leprosy patients. MONG, Aprue, Hatano, K., Thomas, A., Makino, M. Japan

- CL36** The diverse histopathology of single lesion leprosy. PORICHHA, D., Kar, H.K., Bharadwaj, M. India
- CL37** Mono lesions patients. An observation over 13 years. VARIGETI, Jayaraj, Benjamin, David. India
- CL38** Single lesion leprosy - case reports. EDWARD, V. India
- CL39** Predictive value of three common systems of clinical classification in leprosy. PREMKUMAR, R., Daniel, E., Rao, P.S.Sundar. India
- CL40** Correlation of clinical, histological and immunological features across the leprosy spectrum. NARAYAN, N.P. Shankar, Ramu, G., Desikan, K.V., Vallishayee, R.S. India
- CL41** Clinical histopathological and immunohistological appraisal of reversal reaction. Shankernarayan, N.P., Ramu, G., Ramanathan, V.D., NARAYAN, N.P. India
- CL42** Deliberations on the early skin lesion in leprosy. WARNDORFF, D.K., Ponnighaus, J.M., Fine, P.E.M. Malawi

## SESSION 19

### Clinical V

*Wednesday, 9 September 1998*

#### 13:00 (Room 4)

- CL43** Reactions after intermittent therapy with ROM in PB leprosy. GANAPATI, R., Pai, V.V., Chavan, R.G., Salunkhe, S., Revankar, C.R. India
- CL44** A double blind, controlled, dose comparison study of thalidomide in the acute treatment of erythema nodosum leprosum (ENL). KOOK, Karin A., Villahermosa, L., Downs, M., Fajardo, T., Walsh, G., Thomas, S. U.S.A.
- CL45** Response to corticosteroids of acute nerve function impairment in a prospective cohort of leprosy patients. CROFT, Richard P., Nicholls, P., Richardus, J.H., Anderson, A., Smith, C. Bangladesh
- CL46** The effects of prophylactic corticosteroids on the incidence and timing of nerve function impairment in newly diagnosed multibacillary leprosy patients. CROFT, Richard P., Nicholls, P., Anderson, A., van Brakel, W., Smith, C. Bangladesh
- CL47** Prevention of neuritis and deformities in tuberculoid leprosy patients by prophylactic therapy with chloroquine and low-dose prednisolone. Devadas, T. Jeyaraj, Abraham, T., MURUGAN, S. India
- CL48** The efficacy and safety of thalidomide for ENL: A literature review. GELBER, Robert. U.S.A.

- CL49** Risk of steroid induced diabetes in leprosy patients. BARKATAKI, Pramila. India
- CL50** Effect of leprosy on pregnancy and childbirth. KAUR, Harvinder, Gandhi, A. India
- CL51** Pregnancy in patients with Hansen's disease: A report of three cases. LYDE, Carolyn B. U.S.A.
- CL52** Charcot's artropathy in leprosy. TERCENIO DE LAS AGUAS, Jose, Ochoa, V.G. Spain
- CL53** Palpation of skin temperature in the neuropathic foot. Hoeksma, A.F., FABER, W.R. The Netherlands
- CL54** Diagnostic procedures for suspected osteomyelitis in neuropathic feet of leprosy patients. FABER, W.R., Hoeksma, A.F., van der Leij, A.J., Maas, M, Dijkstra, P.F. The Netherlands
- CL55** Detection of peripheral dysautonomia in leprosy: clinical versus neurophysiological parameters. WILDER-SMITH, E., Wilder-Smith, A. Switzerland
- CL56** Facial sensation in leprosy: A method of quantitative assessment. PREMKUMAR, R., Daniel, E., Suneetha, S., Yovan, P. India

## **SESSION 20**

### **Disability Control II**

*Wednesday, 9 September 1998*

#### **13:00 (Room 5)**

- DC01** Distraction technique for relieving P.I.P. joint stiffness/contracture. SHAH, Atul, Khote, S., Puri, V. India
- DC02** Reaching out to disabled Pal's. A decade's experience. SHAH, Atul, Ghasura, N., Patel, K., Shah, N., Chopra, N., Dave, P., Gandhi, S. India
- DC03** Retrospective study comparing recovery of motor nerve function deficit with an alternate day regimen of steroids and a once daily regimen. Noele-Marie, Ravikumar, B., PRASAD, N. India
- DC04** Impact of community based disability services in an urban slum - A questionnaire study. KINGSLEY, S., Dhar, R., Ganapati, R. India
- DC05** Leprosy cases prone for nerve function impairment - a guide for identification. KINGSLEY, S., Ganapati, R., Pai, V.V., Revankar, C.R. India
- DC06** Analysis of nerve function events during follow-up. NICHOLLS, Peter, Croft, R.P., Smith, W.C.S. United Kingdom

- DC07** Determination of reliability and accuracy of commercially available monofilaments for the measure of sensibility. Giurintano, David, FIGAROLA, J., Pfeifer, L., Brasseaux, D., Hoard, A. U.S.A.
- DC08** The significance of nerve function alteration in patients during the surveillance or post-surveillance periods in leprosy. NEGESSE, Yohannes, Habte-Mariam, H.-S. Ethiopia
- DC09** Recurrence of reaction and neuritis in leprosy after "standard steroid regimen". PAI, V.V., Revankar, C.R., Kingsley, S., Ganapati, R. India
- DC10** Registration delay and old age: Primary risk factors for impairments in new leprosy patients. MEIMA, Abraham, Saunderson, P., Gebre, S., Desta, K., Habbema, D. The Netherlands
- DC11** Key modalities of field-based disability care approach. SHAH, Neela, Shah, A. India
- DC12** Planning & organising disability prevention, care & rehabilitation services as integrated leprosy control activities. SHAH, Atul. India
- DC13** Disability management information system. SHAH, Atul, Shah, N., Grewal, P. India
- DC14** Foot care - a systematic approach for field area. Shah, Atul, SHAH, N. India

## SESSION 21

### Disability Control III

*Wednesday, 9 September 1998*

#### 13:00 (Room 6)

- DC15** Silicone oil prevention of insensitive foot ulcers. BALKIN, S.W., Kaplan, L., Rea, T. U.S.A.
- DC16** The treatment of plantar ulcers in leprosy patients with felt cut-outs. Kiewied, Jessica, Alemu, T., Currie, H., KAZEN, R., Saunderson, P., Groenen, G. Ethiopia
- DC17** Asrass - a standard MCR footwear for management of forefoot ulcers. KIRAN, K., Beine, A., Elsamra, V. India
- DC18** An important correction to the process of making plastazote shoes. Zondervan, Pitrik, Kalkman, T., SAUNDERSON, P., Kazen, R. Ethiopia
- DC19** Leprosy footwear. ANTIA, Noshir. India
- DC20** Secondary infections of leprosy foot ulcers. Kandel, Krishna, Ghimire, P., Macdonald, M., ROCHE, P. Nepal

- DC21** Can self care at home bring down the prevalence of plantar ulcers? MATHEW, Jacob, Antony, P., Ethiraj, T., Krishnamurthy, P. India
- DC22** Prevention of plantar ulcers in Hansen's disease. TRAPLE, Germano, Disenha, L.M., Colina, N.M., Piekarski, A. Brazil
- DC23** Utilization of Semmes-Wienstein monofilaments for control of the potential impairment in Hansen' s disease. TRAPLE, Germano. Brazil
- DC24** Thalidomide neuropathy. CRAWFORD, C.L. United Kingdom
- DC25** A review of the associated ocular lesions amongst the leprosy sufferers with lagophthalmos. SAMANTA, Swapan, K., Roy, I.S., Dey, P., Das, A. India
- DC26** Ocular morbidity in leprosy. RAO, P.S. Sundar, Daniel, E., Kurian, N., Gayathri, K.J. India
- DC27** Prevalence of disability in an urban slum - an assessment with reference to rehabilitation. GANAPATI, R., Pai, V.V., Kingsley, S., Dhamale, C.B. India
- DC28** Does active surveillance after RFT prevent further disability? GEBRE-YESUS, Alemu, Saunderson, P. Ethiopia

## SESSION 22

### Disability Control IV

*Wednesday, 9 September 1998*

#### 13:00 (Room 7)

- DC29** Care after cure: Alternatives based on a South American model. DUERKSEN, Frank, Virmond, M. Canada
- DC30** Prevention of disability in China. GUOCHENG, Zhang, Watson, J., Piefer, A., Winslow, R., Smith, W.C.S., Samson, P.D. China
- DC31** Hansen's disease disabilities - From curing to caring. GUERRA, Irma E. U.S.A.
- DC32** Prevention of disabilities and rehabilitation into a leprosy control program. PAREDES, Silvia, Cardoso, C.V. Republica Argentina
- DC33** Experience of POD programme in an urban leprosy project involving paramedical workers. RAO, P.V. Ranganadha, Reddy.B, P., Chauhan, T.S., Palande, D.D. India
- DC34** Results of the neurological status and the disability grade of 358 HD patients followed in 6 Brazilian outpatient facilities for 1 and one-half years. LEHMAN, Linda, Orsini, M., Bell-Krotoski, J. Brazil
- DC35** A follow-up on self-care for eyes, hands and feet among 9995 leprosy cases. Xiao-yu, Wei, Juan, J., Cheng, Z., Watson, J. China

- DC36 **Need based analysis of leprosy patients.** SAHANI, E.E., Lalli, M., Babu, R. India
- DC37 **Treatment of nerve function deficit using an ambulatory alternate-day regimen of prednisolone. A retrospective study.** PRASAD, Noela-Marie, Ravikumar, B.P. India
- DC38 **Teaching patients about self care: An evaluation of an health education program for leprosy patients with established nerve function loss.** SCHAFER, Johannes, de Koning, M. Germany
- DC39 **Home-based self-care in the ALERT leprosy control area, Ethiopia.** AMENU, Assefa, Benbow, C. Ethiopia
- DC40 **Disability care needs of leprosy patients. A field model.** VARIGETI, Jayaraj, Raju, R., Rajan, G. India
- DC41 **The EHF score: How good is it as an indicator for POD programme management?** SAUNDERSON, Paul, Currie, H., Byass, P., Meima, A. Ethiopia
- DC42 **The management of chronic neuritis at ALERT.** BIZUNEH, Elisabeth, Leekassa, R., Hunegnaw, M., Begna, J., Kazen, R. Ethiopia

### SESSION 23

#### Psycho-Social II

*Wednesday, 9 September 1998*

#### 13:00 (Room 8)

- PS15 **Leprosy: A grassroots perspective.** RAMIREZ, JR., Jose, Ramirez, M. U.S.A.
- PS16 **Transforming the image of leprosy: Society needs a new metaphor.** SKINSNES LAW, Anwei U.S.A.
- PS17 **Leprosy in the United States: A case study of a low endemic country.** JUSTICE, Judith. U.S.A.
- PS18 **Those disabled by leprosy demand dignity and full participation.** ZELELEW, Arega Kassa. Ethiopia
- PS19 **IDEA Africa: The census and the take off.** EKEKEZIE, Uche 'M. Nigeria
- PS20 **Social acceptance of children of people affected with leprosy.** PAUL, Mary. India
- PS21 **Social stigma status of PALS in the project area community - preliminary findings.** RICHARD, T.J. Baskaran, Christian, D., Baskaran, E., Samuel, R. India
- PS22 **Psychological impact of stigma in the absence of social stigmatization.** KASTURIARATCHI, Nimal, Weiss, M., Grewal, P., Gunawardene, P., Dewapura, D., Settinayake, S., Somatunga, L., Ariyaratne, V. Sri Lanka

- PS23 **Persons affected by Hansen's disease: with a challenge...with a mission.** CABANOS, Jr., Ernesto. Philippines
- PS24 **Whether RFT strategy in MDT leads to more amputations in leprosy patients - a 20 year study.** DURAI, V., Oommen, P. India
- PS25 **Progress or abandonment?** PARKER, Les. England
- PS26 **Stepping out of the darkness: A narrative and slide presentation.** PUNIKAI'A, Bernard. U.S.A.
- PS27 **How will we remember people who lived with leprosy?** MONSON, Valerie. U.S.A.
- PS28 **Many faces of stigma: Comparison of methodologies.** Kasturiaratchi, Nimal, Weiss, M., Grewal, P., GUNAWARDENE, P., Dewapura, D., Settinayake, S., Somatunga, L., Ariyaratne, V. Sri Lanka

## SESSION 24

### Rehabilitation II

*Wednesday, 9 September 1998*

#### 13:00 (Room 9)

- RE01 **Survey of disability rates in 28,674 persons affected by leprosy in Jiangsu Province, China.** LIANHUA, Zhang, Zhizheng, X., Zhizheng, X, Yuhui, H., *et al.* China
- RE02 **Relevance to future planning of lessons learned during the China Rehabilitation Project.** WATSON, Jean M., Guocheng, Z., Bin, Y.L., Juan, J., Xiaoyu, W., Piefer, A. England
- RE03 **A scale to assess activities of daily living in persons affected by leprosy.** VAN BRAKEL, Wim H., Anderson, A.M., de Boer, M., Scholten, E., Worpel, F.C., Saiju, R., Hari, B. B.K., Sherpa, S., Sunwar, S.K., Gurung, J. Nepal
- RE04 **Use of the eyes, hands, feet (EHF) score as an impairment severity score in leprosy.** VAN BRAKEL, Wim H., Reed, N.K., Reed, D.S. Nepal
- RE05 **An ICIDH-based survey of disability in persons affected by leprosy.** VAN BRAKEL, Wim H., Anderson, A.M. Nepal
- RE06 **Rapid appraisal in assessment of the factors related to leprosy rehabilitation - A preliminary report.** CHEN, Shu-min, Han, C., Li, B., Zheng, R., Zhang, L., Wang, X. China
- RE07 **Coping patterns among leprosy and non-leprosy disabled cases.** SAXENA, Manisha, Kochar, V. India

- RE08** A sociological study of rehabilitation among leprosy and non-leprosy disabled cases. SAXENA, Manisha, Kochar, V. India
- RE09** Stages in the rehabilitation of the leprosy handicapped (as organised by Poona District Leprosy Committee). JADHAV, Vithal, Kabadgi, V., Mehta, J. India
- RE10** Care-after-cure programs towards a world without leprosy. JOSEPH, Geetha A., Rao, P.S.S. India
- RE11** Prevention of disability and rehabilitation for the leprosy affected in China. GUO-CHENG, Zhang. China
- RE12** Community based rehabilitation of leprosy patients in Ghana. ABRAM, George, Bainsan, K. Ghana
- RE13** Identifying target groups for socio-economic development in leprosy. GOPAL, P.K., Devadas, T.J., Srinivasan, G.R. India
- RE14** Prevention and correction of claw hand by splint application. DAVE, P.V., Patel, K.N. India

## **SESSION 25**

### **Surgery II**

*Wednesday, 9 September 1998*

#### **13:00 (Room 10)**

- SU01** Outcomes of reconstructive surgery in leprosy - a functional, socio-economic and rehabilitation perspective. RATH, Santosh, Chauvan, T., Soreng, N. India
- SU02** Long-term follow up of joint stabilization procedures in the treatment of deformed feet in leprosy. WANG, Zai-ming, Li, F., Dong, L. China
- SU03** Reconstructive surgery of deformities in Hansen's disease in the camps. An evaluation and long term follow up. RAO, K.S., Swamy, M.K.S., Betal, Patond. India
- SU04** Leprosy affects facial nerves in a scattered way from the main trunk to all peripheral branches. TURKOF, Edvin, Richard, B., Knolle, E., Katri, B., Ciovica, R., Tambwekar, S. Austria
- SU05** Results of temporalis muscle transfer procedure for correction of lagophthalmos. VIJAYAKUMAR, D., Roberts, H.G. India
- SU06** Intraocular lens implantation in leprosy patients. ANAND, Shyamala, Anand, S., Babu, G.R., Walter, C.S. India

- SU07 Eyebrows reconstruction by transplantation of multiple punch scalp grafts.** de Castro, Aldemar Vilela, MAAKAROUN, M., Neto, J.A.M., Rodrigues, M.de L.V. Brazil
- SU08 Surgical correction of lagophthalmos by temporalis muscle transfer in Hansen's disease.** SWAMY, M.K. Siddalinga, Rao, K.S. India
- SU09 Two methods for intrinsic replacement of the leprosy hand: A comparison of hand function.** KAZEN, Roland, Benbow, C., Mengiste, A., Abate, Y., Chachu, F.M., Thevoz, P. Ethiopia
- SU10 Adductor replacement for thumb by transfer of half-index sublimis tendon.** OOMMEN, P., Durai, V. India
- SU11 Posterior tibial nerve decompression in prevention of plantar ulcer.** PALANDE, Dinkar. India
- SU12 Flap repair for plantar ulcers of leprosy.** QIAN, Chong-zu, Chen, J., Qian, J., Yu, A., Yao, J., Jin, Y. China
- SU13 Heel ulcers in leprosy treated with a fasciocutaneous island flap from the instep of the sole: 10 years experience.** GRAVEM, Paul Egil, Mengiste, A., Kazen, R., Hassen, I.M. Ethiopia
- SU14 The deformed foot: The place of corrective surgery. A 12 year review.** MACDONALD, Mark, Schwarz, R. Nepal

## **SESSION 26**

### **Chemotherapy I**

*Wednesday, 9 September 1998*

#### **13:00-17:00 (Exhibition Hall 2)**

- CH43 A case for treating all single lesions PB leprosy patients.** ANAND, Sunil, Kerketta, W., Babu, G.R., Walter, C.S. India 001
- CH44 Surveillance of 994 cures by DDS monotherapy retreated with MDT.** BA, De-ma, Wang, C., Huang, W., Ju, L., Wu, R. China 002
- CH45 Efficacy of single dose ROM for the treatment of single lesions PB leprosy - 24 months followup from the date of intake.** BABU.G, Rajan, Nanda, N.K. India 003
- CH46 Minocycline used in leprosy causes long term marked blue pigmentation in skin lesions.** BARNETSON, R. StC. Australia 004
- CH47 Eight-year surveillance of 481 PB leprosy cases with DDS after completion of WHO MDT regimen.** CHEN, Ning, Dai, F., Zhang, X., Qi, B. China 005

- CH48** Field trial of ofloxacin drug regimens in multibacillary and paucibacillary leprosy. Preliminary results. CUNHA, M. Da Graca Souza, Schettini, A.P.M., Rebello, P.B., Pennini, S.N. Brazil 006
- CH49** Leprosy reaction in multibacillary leprosy patients after 2-year multidrug therapy. CUNHA, Maria da Graca S., Rebello, P.B., Pennini, S.N., Sadahiro, M., Schettini, A.P.M. Brazil 007
- CH50** Anti PGL-1 levels in multibacillary leprosy patients treated with ofloxacin combined drug regimens. CUNHA, Maria da Graca Souza, Schettini, A.P.M., Ferreira, W.A., Bonato, V.L.D., Foss, N.T. Brazil 008
- CH51** An analysis of 1313 cured leprosy cases with modified WHO MDT regimen in Jiangsu Province. DAI, Fu-lei, Chen, N., Zhang, L. China 009
- CH52** Multiple drug resistance in lepromatous leprosy - a case report. GANAPATI, R., Pai, V.V., Verma, S.K., Jayashree. India 010
- CH53** Regression of clinically active lesions after short course chemotherapy in leprosy. GANAPATI, R., Revankar, C.R., Pai, V.V., Chavan, R.G. India 011
- CH54** Is there a need to retreat PB leprosy with MDT after ROM? - A case report. GANAPATI, R., Chavan, K., Salunkhe, S., Pai, V.V. India 012
- CH55** Granuloma regression after "FDT" in leprosy - a literature review. GANAPATI, R., Salunkhe, S.R., Pai, V.V. India 013
- CH56** Clinical trial of sparfloxacin in leprosy patients. ISHII, Norihisa, Sugita, Y., Nakajima, H., Kusakabe, Y. Japan 014
- CH57** Activity of minocycline against *M. leprae* in mice and its effect on lepromatous patients. JIANPING, Shen, Wenzhong, L., Heying, W., Wanhui, W., Ganyun, Y., Yuankun, X., Wenbiao, H., Fengwu, L., Shunpeng, R., Fugui, Y. China 015
- CH58** Treatment of PB leprosy using a MDT regimen containing clofazimine. KATOCH, K., Natrajan, M., Bhatia, A.S., Katoch, V.M., Sengupta, U. India 016
- CH59** An analysis of 119 relapsed leprosy patients in Chaohou City. LIN, Zuo-gui, Wang, S. China 017
- CH60** Single dose multi drug therapy for the treatment of single lesion PB leprosy. MANIMOZHI, N., Vijayakumaran, P., Jesudasan, K., Selvasekar, A., Samuel, P. India 018
- CH61** Epidemiological survey and genetic impact of multidrug therapy in leprosy patients at Coimbatore. Kalaiselvi, K., Rajaguru, P., MURUGAN, S., Kumar, H.V., Elangeswaran, N., Abraham, T., Devadoss, T.J., Llangovan, M., Rani, M.V.U. India 019

- CH62** Comparative study of two drug regimen and three drug regimen in paucibacillary leprosy. MURUGESH, S.B., Guruprasad, Y.K. India 020
- CH63** Aminoglycosides as an effective therapy for mycobacterial species. El Tayeb, Sawsan H.M., NASR, E.M., Elzohiri, Y.Z. Egypt 021
- CH64** Cohort results of 383 released leprosy patients (MB). OLIVEIRA, M.L.W., Gomes, H.M., Gallo, M.E.N., Nery, J.A.C., Cunha, M.G.S., Rebello, P.F.B., Mercon, M. Brazil 022
- CH65** Effect of hydrocarpus on wound healing. OOMMEN, Tom, Rao, C.M. India 023
- CH66** Significance of "viable" *M. leprae* in treated MB leprosy patients. PAI, V.V., Ganapati, R. India 024
- CH67** Relapses after multidrug therapy in leprosy respond to retreatment. PAI, V.V., Bulchand, H.O., Revankar, C.R., Ganapati, R. India 025
- CH68** An assessment of efficacy on multidrug therapy among 795 multibacillary leprosy patients in Shandong Province, China. PAN, Yu-lin, Chen, S., Zhang, L. China 026
- CH69** Delayed clinical problems in single lesion PB leprosy after single dose ROM treatment. REVANKAR, C.R., Pai, V.V., Bulchand, H.O., Ganapati, R. India 027
- CH70** Ofloxacin containing combined drug regimens in the treatment of multibacillary leprosy. SAMPOONACHOT, Prasert, Bundit, C., Peerapakorn, S., Kampirapap, K., Tiasiri, S., Surasondhi, S., Supanwanit, S., Wiriawipart, S. Thailand 028
- CH71** Activity of minocycline against *M. leprae* in mice and its effects on lepromatous patients. SHEN, Jian-ping, Li, W., Wang, H. China 029
- CH72** Reaction to rifampin in the treatment of leprosy (MDT/WHO) recorded in the Ribeirao Preto Region. SOUZA, Cacilda S., Foss, N.T. Brazil 030
- CH73** Potential application of molecular biology in field trials of anti-leprosy vaccines. Sodhi, Aljeet, Chaturvedi, M.M., Mishra, A.K., Anchal, M., SRIVASTAVA, K.D., Garg, T. India 031
- CH74** Relapses after MDT (Isoprodian-RMP). WIENS, Carlos. Paraguay 032
- CH75** Relationship between the level of PCL-IgM antibody and relapse in cured leprosy patients. YU, Xiu-lu, Cheng, H., Li, B., Du, W., Li, G. China 033
- CH76** Twelve-year surveillance of 657 cured persons affected by leprosy re-treated with MDT. ZHOU, Dao-hai, Zhang, J., Zheng, R., Feng, X, Chen, J. China 034

## SESSION 27

### Experimental I

Wednesday, 9 September 1998

#### 13:00-17:00 (Exhibition Hall 2)

- EX15** Drug resistance monitoring in Nepali leprosy patients. Neupane, Kapil, BUTLIN, C.R., Faibus, S., Roche, P. Nepal 035
- EX16** Coagulation methods for early diagnosis of leprosy. Nasr, Ezzat M., EL-TAYEB, S., Moham, A.H. Egypt 036
- EX17** Inhibition of lipid synthesis in *Mycobacterium leprae* by the antibiotic cerulenin. Harris, Eugene. U.S.A. 037
- EX18** The influence of dapsone on biological rhythms of blood count. JUSCENKO, Anatoly A., Urlyapova, N.G., Anokhina, V.V., Luzhnova, S.A., Daudova, A.D. Russia 038
- EX19** Chromosomal aberrations in bone marrow and germ cells of mice treated with anti-leprotic drugs. KALAISELVI, K., Rajaguru, P., Elangeswaran, N., Vinodkumar, H., Ooman, Murugan, S., Rani, M.V.U. India 039
- EX20** Reactivity of a population of armadillo lymphocytes with an antibody to human gamma, delta T-cells. SCOLLARD, David M., Lathrop, G., Dietrich, M. U.S.A. 040
- EX21** Fate of *M. leprae* injected intraneurally in a murine model: its viability, fold increase and clearance in the sciatic nerve of swiss white mice. SHETTY, V.P., Matharu, P.K., Antia, N.H. India 041
- EX22** Protein phosphorylation studies in leprosy. SUNEETHA, Lavanya M., Korula, R.J., Job, C.K., Balasubramanian, A.S. India 042
- EX23** Protein phosphorylation in *Mycobacterium leprae*. SUNEETHA, Lavanya M., Suneetha, S., Job, C.K., Balasubramanian, A.S. India 043
- EX24** The susceptibility to *Mycobacterium leprae* of NF-IL6 KO mice and induction of cytokines. YOGI, Yasuko, Endoh, M., Tanaka, T., Akira, S., Ikamura, H., Nomaguchi, H. Japan 044

## SESSION 28

### Immunology I

Wednesday, 9 September 1998

#### 13:00-17:00 (Exhibition Hall 2)

- IM29** Responses of activated armadillo macrophages to challenge with *Mycobacterium leprae*. ADAMS, Linda B., Truman, R.W., Krahenbuhl, J.L. U.S.A. 045

- IM30** Studies on lymphocyte physiology - study of marker enzymes of metabolic pathways. BABU, C.S. Suri. India 046
- IM31** HLA DR-B1 and DQ alleles in leprosy patients with uveitis. CAKINER, Tulay, Oguz, F.S., Karcorlu, M., Dolgun, G., Saylan, T., Carin, M. Turkey 047
- IM32** Study on serological activity of three recombinant of antigens-85B in leprosy. CAO, Yuan-hua. China 048
- IM33** Study of affinity of anti-PGL-1 antibodies in the LL patients with type I and type II reactions. CHAKRABARTY, A.K., Chattopadhy, D., Kashyap, A., Saha, K. India 049
- IM34** Immunoassays with 29/33kd doublet and 65kd antigens of *Mycobacterium tuberculosis* for serodiagnosis of borderline leprosy patients. DAS, Pranab, Verhagen, C., Burggraaf, J., Yong, S., Faber, W., Rambukkana, A. The Netherlands 050
- IM35** In situ expression of IFN-gamma and IL-4 in the lesional skin across the immunopathological spectrum of leprosy: reflect disease activity. Verhagen, Claudia, Buffing, A., Slebos, R., van der Loos, C., Faber, W., DAS, P. The Netherlands 051
- IM36** Role of macrophages in the pathogenesis of *Mycobacterium tuberculosis*. EL-TAYEB, Sawsan H.M., Rich, E., Sadem, M.M. Egypt 052
- IM37** Cell mediated immune response in healthy exposed individuals settled in non-endemic area - a pilot study. FERNANDO, Augusta, Matt, N., Jolly, G., Edward, V., Cree, I. India 053
- IM38** A possible link between timing of development of mucosal and systemic immunity - apparent protection? FERNANDO, A., Edward, V., Cree, L. India 054
- IM39** Detection of nitric oxide (NO) in dermal lesion of patients with leprosy. FIGUEIREDO, Florencio, Zangrande, A.M., Cunha, F.Q., Ballejo, G., Foss, N.T. Brazil 055
- IM40** Production of TGF- B1 by blood monocytes from patients with different clinical forms of leprosy. Goulart, Isabela M.B., Mineo, J.R., FOSS, N.T. Brazil 056
- IM41** Cytokines serum profile and leprosy spectrum. FOSS, Norma T., Almeida, A.M., Silva, C. L. Brazil 057
- IM42** Cytokine Th1 and Th2 profile, TGF-beta-1 and immunosuppression of lepromatous leprosy. FOSS, Norma T., Oliveira, M.A.S., Zangrande, A.M., Silva, C.L., Figueiredo, F. Brazil 058
- IM43** Reactional episodes, cytokines pattern and microbial mechanisms in leprosy. FOSS, Norma T., Souza, C.S., Zangrande, A.M., Figueiredo, F. Brazil 059

- IM44** Antigen recognition mechanism of anti-PGL-I antibody DZ 1. FUJIWARA, Tsuyoshi, Fukase, K., Kusumoto, S., Minagawa, F., Douglas, J.T. Japan 060
- IM45** Lepromin reaction in HIV positive individuals. JAYAKUMAR, J., Baskaran, B., Job, C., Aschhoff, M. India 061
- IM46** An experience of using leuciferon for treatment of lepromatous leprosy patients. Ajupova, A.K., Dyachina, M.N., Urlyapova, N.G., JUSCENKO, A.A. Russia 062
- IM47** Definitive role of lepromin positivity in bacteriological clearance in multibacillary leprosy. Sharma, Pankaj, Misra, R., KAR, H., Rani, R., Kaur, H., Mukherjee, R. India 063
- IM48** An in vitro model of macrophage turnover in experimental leprosy. Adams, Linda B., KRAHENBUHL, J.L. U.S.A. 064
- IM49** Comparison between anti-PGL-I serology and Mitsuda's reaction (clinical reading, microscopic findings and immunohistochemical analysis). MAEDA, Solange, Cruaud, P., Sunderkotter, C., Michalany, N., Tomimori-Yamashita, J., Rotta, O. Brazil 065
- IM50** Lymphocyte and cytokine responses to subfractions of the leprosy bacilli in patients with Type I reactions. MANANDHAR, Rakesh, Roche, P. Nepal 066
- IM51** Analysis of cytokine mRNA profile in leprosy lesions during acute inflammatory episodes: Impact of pentoxifylline, thalidomide and prednisone treatment. MORAES, Milton, Sarno, E.N., Almeida, A.S., Saraiva, B.C.C., Nery, J.A.C., Sampaio, E.P. Brazil 067
- IM52** Serum IL-1ra is elevated in lepromatous leprosy patients. MORRIS FAFUTIS, Mary, Guillen, V.C., Navarro, F.S., Morales, O.R., Armendariz-Borunda, J. Mexico 068
- IM53** Do gamma/delta T-cells play a role in lepromin skin reactions in Hansen's disease-naïve volunteers? MROCZKOWSKI, Tomasz F., Scollard, D.M., Shannon, E.J., Krotoski, W.A. U.S.A. 069
- IM54** Immunological response of a TT leprosy patient post BCG vaccination during disease and after healing of the leprosy lesion. Lima, Monica, Salgado, J.L., PESSOLANI, M.C.V., Pereira, G.M.B., Rumjanek, F.D., Duppre, N., Nery, J.A.C., Porto, L.C.M.S, Pontes, L.F.S., Sarno, E.N. Brazil 070
- IM55** Effect of phenolic glycolipid-I on TNF-alpha production and T-cell activation. PESSOLANI, M.V.C., Charlab, R., Alvim, I.M.P., Nery, J.A.C., Esquenazi, D., Sarno, E.N., Pereira, B.M.B. Brazil 071
- IM56** Immunohistochemical study on patients of Mitsuda positive lepromatous leprosy. QUINTANA, Maria, Cuevas, J., Terencio, J. Spain 072

- IM57** Study of humoral and cellular immunology in patients of Mitsuda positive lepromatous leprosy. QUINTANA, Maria, Enguidanos, J., Terencio, J. Spain 073
- IM58** An immunogenetic study of differential manifestations of leprosy in north India. RANI, Rajni, Sharma, P., Kaur, H., Mukherjee, R. India 074
- IM59** Rapid and simple measurements of antileprosy antibodies. ROCHE, Paul, Britton, W., Cole, R. Nepal 075
- IM60** Neutrophils isolated from leprosy patients exhibit accelerated apoptosis in vitro and release TNFalpha and IL-8. Oliveira, R.B., Sarno, E.N., Moraes, M.O., Oliveira, E.B., Almeida, A.S., SAMPAIO, E.P. Brazil 076
- IM61** Clofazimine interferes with T-lymphocyte activation in vitro. Martins, M.B.V.S., Sarno, E.N., SAMPAIO, E.P. Brazil 077
- IM62** Serum antibody to a synthetic peptide antigen of the 85B *Mycobacterium leprae* protein complex in newly diagnosed leprosy patients. SCHAFER, Johannes, Knobloch, J. Germany 078
- IM63** Early local and regional events in the secondary response of Rhesus monkeys to *M. leprae*. LeMarchand, Thomas, Ratterree, M., Gormus, B., SCOLLARD, D. U.S.A. 079
- IM64** Serological diagnosis of leprosy using full thickness skin cultures in vitro: A preliminary study. SENGUPTA, U., Beuria, M.K., Mohanty, K.K., Katoch, K. India 080
- IM65** In vitro thalidomide is agonistic to the synthesis of IL-2 and frequently antagonistic to the synthesis of TNF-A in ENL and HIV seropositive patients. SHANNON, Edward, Pankey, G., Aseffa, A., Sandoval, F., Webster, K. U.S.A. 081
- IM66** Thalidomide can modulate the ability of mononuclear cells to incorporate [3H]-thymidine when stimulated with *M. leprae* antigens. SHANNON, Edward, Sandoval, F., Harris, E. U.S.A. 082
- IM67** The possible role of interleukin (IL) 12 and interferon- $\gamma$ -inducing factor/IL-18 in protection against experimental *Mycobacterium leprae* infection in mice. SINGH, Ram Pyare, Kai, M., Gidoh, M., Nakata, N., Endoh, M., Kobayashi, K., Saito, H. Japan 083
- IM68** Antibody responses with recombinant selective sequence based peptides in human leprosy patients. SINGH, Ram Pyare, Wilfred, D., Nath, I. Japan 084
- IM69** Assessment of anti-PGL I as prognostic marker of leprosy reaction. STEFANI, Mariane M.A., Martelli, C.M.T., Morais-Neto, O.L., Martelli, P., Costa, M.B., de Andrade, A.L.S.S. Brazil 085

- IM70** Frequency of IFN $\gamma$  secreting cells in the peripheral blood of leprosy patients depends on the clinical form of the disease and show a dominant CD4<sup>+</sup> phenotype. Salgado, J.L.F., Sampaio, E.P., Hernandez, M.O., Moreira, R.O., Ferreira, A.P., Sarno, E.N., TEIXEIRA, H.C. Brazil 086
- IM71** Dendritic cell enhancement of interferon-gamma in lepromatous leprosy. VEMURI, Nalini, Jain, S., Mittal, A., Misra, R.S., Nath, I. India 087
- IM72** Cutaneous delayed-type hypersensitivity responsiveness in lepromatous leprosy as determined by multitest CMI. WALSH, Douglas, Villahermosa, L., Fajardo, T., Tan, E., Walsh, G. Thailand 088
- IM73** The involvement of HLA in leprosy in Southern China. WANG, L.M., Kimura, A., Sato, M., Mineshita, S. Japan 089
- IM74** Analysis of in vitro T-cell responses to candidate *M. leprae* skin test antigens in leprosy patients and control subjects. WEIR, R.E., Brennan, P.J., Butlin, C.R., Roche, P.W., Dockrell, H.M. United Kingdom 090
- IM75** A study on the methods for early serological diagnosis of leprosy and their potential use. WU, Qin-xue, Ying, Y., Su, H., Wei, W., Liu, Q., Ye, G. China 091
- IM76** Anti-leprosy protective vaccination of monkeys with BCG and BCG plus heat-killed *Mycobacterium leprae*: Immunologic observations. XU, Keyu, Gormus, B.J., Baskin, G.B., Mack, P.A., Bohn, R.P., Ratterree, M.S., Cho, S.-N., Meyers, W.M., Walsh, G.P., U.S.A. 092

## SESSION 29

### Microbiology I

Wednesday, 9 September 1998

#### 13:00-17:00 (Exhibition Hall 2)

- MI29** Inhibition of metabolism and growth of *Mycobacterium leprae* by gamma-irradiation. ADAMS, Linda B., Soileau, N.A., Fajardo, R., Battista, J.R., Krahenbuhl, J.L. U.S.A. 093
- MI30** Gene fusion expression of an immunomodulator from *Mycobacterium leprae*. BABU, S. Suresh, Mahadevan, P.R. India 094
- MI31** Mycolates of different leprosy-related mycobacteria: A comparative study. CHAKRABARTI, Aparna, Ghosh, K., Sen, A., Dastidar, S.G., Chakrabarty, A.N. India 095
- MI32** Beta-lactam targets in *Mycobacterium leprae*. CHAKRABARTI, Parul. India 096

- MI33** **In vitro growth of *Mycobacterium leprae* in stirred cells.** DHOPLE, Arvind M. U.S.A. 097
- MI34** **Presence of calmodulin-like protein in *M. leprae* and its implications on the development of new antileprosy drugs.** DHOPLE, Arvind M. U.S.A. 098
- MI35** **Modeling activity of single dose combination regimens by simulating human pharmacokinetics in macrophage cultures of *Mycobacterium leprae*.** FRANZBLAU, Scott, Adams, L., White, K., Krahenbunhl, J. U.S.A. 099
- MI36** **Elongation of *Mycobacterium leprae* in macrophages cultured in the presence of interleukin-10.** FUKUTOMI, Yasuo, McCormick, G., Pasqua, J.P., Krahenbuhl, J.L., Torantani, S., Matsuki, G., Matsuoka, M. Japan 100
- MI37** **Global epizootic in fish by a leprosy like actinomycete posing a potential hazard to human health.** GANGULY, Kumkum, Dastidar, S.G., Chakrabarty, A.N. India 101
- MI38** **Strict conservation of *Mycobacterium leprae* DNA sequences.** GILLIS, Thomas P., Williams, D.L., Robbins, N., Frothingham, R. U.S.A. 102
- MI39** **Determination of metabolically active state of slow growing mycobacteria.** ISHAQUE, M. Canada 103
- MI40** **A method of storing lepromas.** JUSCENKO, Anatoly A. Russia 104
- MI41** **DNA amplification for detection of leprosy and assessment of efficacy of leprosy chemotherapy.** KAMPIRAPAP, Kowit, Klatser, P.R., Wiriyawipart, S. Thailand 105
- MI42** **Confirmation of diagnosis in mono lesion leprosy cases by gene amplification techniques.** KATOCH, V.M., Sharma, V.D., Singh, H.B., Katoch, K., Natrajan, M., Singh, D., Sharma, R.K., Chauhan, D.S. India 106
- MI43** **On the nerve lesions caused by a leproma-derived and cultivated mycobacterium HI-75 produced in mice.** Sidik, Hamit, Furuno, Y., Murata, K., MATSUO, E. Japan 107
- MI44** **Limited growth of *Mycobacterium leprae* in cell-free liquid medium containing adenosine.** NAKAMURA, Masahiro, Matsuoka, M. Japan 108
- MI45** **The antimycobacterial action of ampicillin/sulbactam in cell-free and intracellular systems.** PRABHAKARAN, K., Harris, E.B., Randhawa, B. U.S.A. 109
- MI46** **Protein kinase regulates phagocytosis of *Mycobacterium leprae* by macrophages.** PRABHAKARAN, K., Harris, E.B., Randhawa, B. U.S.A. 110
- MI47** **Genomic identification of the leproma-derived, cultivable and nerve invading *Mycobacterium HI-75* by the complete DNA sequencing of 16S ribosomal RNA gene.** SAKAI, Tetsuo, Sidik, H., Matsuo, E., Wakizaka, A. Japan 111

- MI48** A method of changing reversion of in vitro morphology of CAN bacteria to in vivo forms of leprosy bacillus. SEN, Aninda, Chakrabarti, A., Chakrabarty, A.N., Dastidar, S.G. India 112
- MI49** Oxidation of <sup>14</sup>C-Palmitate as an index of infectivity and viability of 'fast' and 'slow' growing *M. leprae* isolates. TRUMAN, R.W., Franzblau, S.G., Sanchez, R.M., Biswas, A. U.S.A. 113
- MI50** Culture and pathogenic characteristics of the *Mycobacterium leprae* isolate "THAI-53" in armadillos (*Dasyus novemcinctus*). TRUMAN, R.W., Scollard, D.M., Sanchez, R.M. U.S.A. 114
- MI51** Effect of UV radiation on *Mycobacterium leprae*. TRUMAN, R.W., Gillis, T.P. U.S.A. 115
- MI52** Rapid detection of rifampin resistance in mycobacterial pathogens: Evaluation of PCR/UHG-RIF assay. WILLIAMS, Diana, Spring, L., Gillis, T.P. U.S.A. 116
- MI53** Preparation and application study on a2 antigen of *Mycobacterium leprae*. YUE-PING, Yin, Yasuhiko, S., Masanao, M., Qinxue, W., Wei, H. China 117

### SESSION 30

#### Pathology I

Wednesday, 9 September 1998

#### 13:00-17:00 (Exhibition Hall 2)

- PA15** Expresion de las celulas del sistema monocito-macrofago en el espectro inmunopatologico de la lepra: Estudio inmunohistoquimico. Santos, Santos, Contreras, R., GOMEZ ECHEVARRIA, J., Munoz, P., Hernandez, R. Spain 118
- PA16** Polarized microscopic observation of amyloidosis. FURUTA, Mutsuhiro, Hatano, K., Matsuki, T., Okano, Y., Nakaya, K., Ikeda, T., Fujino, M., Makino, M. Japan 119
- PA17** The polarized substances seen in the tissue of leprosy rendering the character of apoptosis. HATANO, Kentaro, Matsuki, T., Saito, T., Makino, M., Furuta, M. Japan 120
- PA18** Histopathological and transmissional electron microscopical observation on the leprotic lesions in scrotum with deep infiltration. LIU, Ji-he, Li, W.-Z., Zhang, G.-C., Kong, Q.-Y., Ye, G.-Y. China 121

**SESSION 31**  
**Chemotherapy II**  
*Thursday, 10 September 1998*

**13:00 (Room 1)**

- CH01** Activity against leprosy bacillus of a single dose combination of ofloxacin plus minocycline, with or without rifampin, in mice and in patients. GROSSET, Jacques, Sow, S., Perani, E., Lienhardt, C., Diderot, V., Ji, Baohong. France
- CH02** Why multidrug therapy for multibacillary leprosy can be shortened to 12 months. JI, Baohong, Grosset, J. France
- CH03** Two new drug combinations in the treatment of leprosy. CHAN, Gertrude, Gonzaga, E., de los Santos, M., Reyes, L., Franzblau, S. Philippines
- CH04** ROM single dose for PB leprosy with 1 to 3 lesions. Pai, V.V., Revankar, C.R., PAI, R.R., Das, M., Ganapati, R. India
- CH05** ROM vs CROM in monolesion Hansen's disease. AMAR, A.K. Jha, Roy, P.K. India
- CH06** Evaluation of newer drugs in leprosy. AMAR, A.K. Jha, Tripathi, S.K., Sinha, D., Mishra, R.N. India
- CH07** Single dose (ROM) in monolesion PB leprosy cases. AMAR, A.K. Jha, Tripathi, S.K., Mishra, R.N. India
- CH08** Efficacy of 7, 14 and 30 days daily doses of combined rifampicin and minocycline in single lesion paucibacillary leprosy. KAR, H.K., Narayan, R. India
- CH09** Study of single dose chemotherapy in paucibacillary leprosy patients with two to three lesions. VALLISHAYEE, R. India
- CH10** Evaluation of 4 drugs combination (CROM) for 28 days in MB leprosy cases. Amar, A.K.Jha, TRIPATHI, S.K., Mishra, R.N. India
- CH11** Recombinant interferon alpha 2b in the treatment of multibacillary leprosy - Preliminary observations. PAI, V.V., Banerjee, U., Thomas, J., Saha, B., Bulchand, H.O., Chavan, R.C., Ganapati, R. India
- CH12** Treatment of MB leprosy using conventional and newer drugs. KATOCH, K., Natrajan, M., Katoch, V.M., Sharma, V.D., Singh, H.B., Shivannavar, C.T., Gupta, U.D. India
- CH13** Short course chemotherapy to hasten the process of leprosy elimination. REVANKAR, C.R., Pai, V.V, Samy, M.S.A., Ganapati, R. India

- CH14** **Controlled clinical trial comparing the effect of WHO-MDT with intermittent drug regimen in the treatment of lepromatous (BL-LL) leprosy.** VILLAHERMOSA, Laarni G., Fajardo, Jr., T.T., Cellona, R.V., Balagon, M.F., Abalos, R.M., de la Cruz, E.C., Tan, E.V., Walsh, G.P. Philippines

## **SESSION 32**

### **Chemotherapy III**

*Thursday, 10 September 1998*

#### **13:00 (Room 2)**

- CH15** **Post surveillance follow up of multibacillary patients treated with MDT.** THOMAS, A., Chandra, S., Nagarajan, M., Hari, L. India
- CH16** **Relapses during long term follow up among multibacillary patients treated with MDT regimen.** THOMAS, A., Nagarajan, M., Hari, L. India
- CH17** **Leprosy relapses after fixed duration MDT.** LI, Huan-Ying, Yuan, L.-C., Hu, L.-F., Ning, Y., Huang, W.-B., Zhou, Y.-X., Ye, F.-C., Li, J.-L. China
- CH18** **Surveillance of leprosy relapse after rifampin plus dapsone therapy.** Huan-Ying, LI, Xiao-Man, W., Fu-Tian, L., Shun-Peng, R. China
- CH19** **Intervals between stopping rifampicin-containing regimens and occurrence of relapse in multibacillary leprosy.** SOW, Samba, Ji, B., Marchoux Chemotherapy Study Group. Mali
- CH20** **Recidivas en enfermos de lepra que han completado el tratamiento con multidroga.** BOGAERT, Huberto D., Alcantara, F.E.S. Dominican Republic
- CH21** **Relapse in MB leprosy after rifampicin and ofloxacin for 28 days - a case report.** GANAPATI, R., Pai, V.V., Revankar, C.R., Bulchand, H.O. India
- CH22** **Bacteriological changes and relapse in 157 multibacillary leprosy with high BI load after WHO/MDT.** WENZHONG, Li, Jianping, S., Cheng, J., Liangbin, Y., Ganyun, Y. China
- CH23** **Viability of *M. leprae* isolated from MB patients treated with WHO/MDT.** HABTE-MARIAM, Haile-selassie, Saunderson, P. Ethiopia
- CH24** **Viability of *M. leprae* in the nasal mucosa and skin of persistent smear positive lepromatous patients after 2 years of MDT.** Job, Anand, EBENEZER, G.J., Abraham, S., Abraham, S., Siromani, A. India
- CH25** **Relapsed leprosy after multi drug therapy presenting in a histoid form.** EBENEZER, Gigi, Barkataki, A. India

- CH26 Relapse and recurrence of lesions after MDT in leprosy: clinical, bacteriological and histopathological investigations of 56 cases.** SHETTY, V.P., Dighe, A.R., Uplekar, M.W., Antia, N.H., Pai, V.V., Ganapati, R. India
- CH27 Relapses in multibacillary leprosy after 2 years treatment with WHO-MDT regimen.** BALAGON, Ma. Victoria F., Cellona, R.V., Fajardo, T.T., Villahermosa, L.G., de la Cruz, E.C., Tan, E.V., Abalos, R.M., Walsh, G.P. Philippines
- CH28 An analysis of relapses after stopping multidrug therapy.** HU, Lu-fang, Luo, J., Zheng, Y., Jiang, D., Lai, Z., Zhang, G. China

### SESSION 33

#### Chemotherapy IV

*Thursday, 10 September 1998*

#### 13:00 (Room 3)

- CH29 Agranulocytosis and dermatitis during the second month of MDT in leprosy.** KNUUTTILA, Jukka P. Nepal
- CH30 Evaluation of MDT during pregnancy.** MISHRA, Sulekha, Roy, P. K., Amar, A.K.J. India
- CH31 Hypersensitivity syndrome to dapsone - an epidemiological review.** WOZEL, Gottfried, Gobel, K., Blasum, C. Germany
- CH32 Evaluation of plasma clofazimine levels in leprosy patients.** VENKATESAN, K., Mathur, A., Girdhar, A., Girdhar, B.K. India
- CH33 Evolution of the leprosy problem in Anjouan (Comores) after 17 years of intensive treatment.** Grillone, S., PATTYN, S.R. Belgium
- CH34 Long term followup study of 140 leprotics treated by M.D.T.** MOHAREB, Roshdy W. Egypt
- CH35 Clinico-bacteriological follow up of smear + VE MDT defaulters.** BHATKI, W. India
- CH36 Our experience with another multidrug therapy regimen for leprosy.** GELBER, Robert. U.S.A.
- CH37 Fixed duration multi-drug therapy in leprosy - a preliminary follow up report.** GANAPATI, R., Revankar, C.R., Pai, V.V., Girija, D. India
- CH38 Evaluation of WHO MDT in tribals of Bihar - a study in 18000 leprosy cases.** AMAR, A.K. Jha, Prasad, M. India

- CH39** Comparison of 1 & 2 years multidrug therapy (WHO) in MB leprosy - a study of 3740 cases. AMAR, Kant Jha, Tripathi, S.K., Mishra, R.N., Prasad, M. India
- CH40** The effect of MDT for 27 months and post-treatment surveillance for 11 years in MB leprosy cases. HUANG, Wen-biao, et al. China
- CH41** A long-term observation of the effect of multidrug therapy in leprosy in Liangshan and Pangzhihua. JIAN, Da-ming, Hu, L., Luo, J., Ning, Y., Zheng, Y., Yu, L. China
- CH42** Evolution sous polychimiotherapie du statut neurologique des malades hanseniens nouvellement depistes. MANE, Ibrahima, Bouly, S., Diop, M.M., Cartel, J.-L., Lepers, J.-P., Grosset, J.H. Senegal

### SESSION 34

#### Experimental II

Thursday, 10 September 1998

#### 13:00 (Room 4)

- EX01** A global strategy for basic biomedical research on leprosy eradication. BRENNAN, Patrick J. U.S.A.
- EX02** Anomalies in neurofilament proteins: some clues to molecular mechanism of passive nerve damage in leprosy. Save, M.P., SHETTY, V.P., Antia, N.H., Shetty, K.T. India
- EX03** Study on anti-ND-O-BSA IgM antibody in sera from mice. WANG, He-ying, Zhang, W., Wu, Q., et al. China
- EX04** The limited diversity in responses to lepromin-A among armadillos in the Southern United States. TRUMAN, R.W., Job, C.K. U.S.A.
- EX05** *M. vaccae* vaccination of *Mycobacterium leprae* infected mice. DE LA CRUZ, Eduardo C., Balagon, M.F., Villahermosa, L.G., Fajardo, Jr., T.T., Cellona, R.V., Tan, E.V., Abalos, R.M., Walsh, G.P., Watson, J.D. Philippines
- EX06** An attempt of optimization of mice footpad technique by Shepard. Maslov, A.K., Kalyanina, O.V., JUSCENKO, A.A. Russia
- EX07** Protection of mice against *Mycobacterium leprae* by skin-test antigens. NGAMYING, Maeya, Brennan, P., Levy, L. Thailand
- EX08** Report of an attempt to experimentally infect goats and pigs with *M. leprae* JOB, Charles, Jeyakumar, J., Aschhoff, M. India
- EX09** Investigation of the postantibiotic effect of rifampin against *Mycobacterium leprae* using a BACTEC system. HARRIS, Eugene. U.S.A.

- EX10 **An in-vitro model of human cells phagocytosing *M. leprae* be used to assay the effect of antileprotics.** QIU, Ju-shi, Quan, S., Qiu, H., et al. China
- EX11 **Immunological potential of Schwann cells and its implications in reactions in leprosy.** MISTRY, Nerges, Birdi, T., Antia, N. India
- EX12 ***Mycobacterium leprae* infection results in differentially transcribed genes in cultured rat Schwann cells.** Hagge, Deanna, Spring, L., Gillis, T.P., WILLIAMS, D.L. U.S.A.
- EX13 ***Mycobacterium leprae* binds to a 25 kDa phosphorylated glycoprotein of human peripheral nerve.** SUNEETHA, Lavanya M., Suneetha, S., Job, C.K., Balasubramanian, A.S. India
- EX14 **Regenerative potential of leprosy nerves.** BIRDI, T.J., Singh, N., Mistry, N.F., Antia, N.H. India

### SESSION 35

#### Immunology II

Thursday, 10 September 1998

#### 13:00 (Room 5)

- IM01 **A study on serum SIL-2R and TNF-alpha level in MB leprosy.** GAO, Jin-cheng, et al. China
- IM02 **Development of a new peptide-based skin test for leprosy.** GEBRE, Negussie, Hunegnaw, M., Negese, Y., Amare, G., Britton, S. Ethiopia
- IM03 **WHO synthetic peptide skin test initiative.** DOCKRELL, H.M., Shahid, F., Chiang, T., Roche, P., Butlin, R., Pessolani, C., Sampaio, E., Sarno, E., Gebre, N., Hunegnaw, M. United Kingdom
- IM04 **Evaluation of a rapid ML dipstick assay for detection of IgM antibody in leprosy.** DOUGLAS, James T., Tesoro, R.A., Buhner, S., Klatser, P.R. U.S.A.
- IM05 **The application *Mycobacterium leprae* particle agglutination (MLPA) test and enzyme linked immunosorbent assay (ELISA) on distribution and persistence of IGM antibodies among individuals in leprosy endemic area, South Sulawesi, Indonesia.** HATTA, Mochammad, Izumi, S., Matsuoka, M., van Beers, S., Klatser, P. Indonesia
- IM06 **A simple dipstick assay for the detection of antibodies to phenolic glycolipid-1 of *M. leprae*.** Buhner, Samira S., Smits, H.L., Gussenhoven G.C., van Ingen C.W., KLATSER P.R. The Netherlands
- IM07 **Simple blood tests to detect exposure to leprosy.** MANANDHAR, Rakesh, Roche, P. Nepal

- IM08** New skin-test antigens for the diagnosis of leprosy. BRENNAN, Patrick J., TerLouw, S.M. U.S.A.
- IM09** Emergence of Th1 like responses during leprosy reactions. NATH, Indira, Sreenivasan, P., Misra, R.S., Wilfred, D. India
- IM10** Immunohistochemical analysis of mycobacterial antigens in skin lesions of leprosy patients related to reactions. Verhagen, Claudia, FABER, W., Klaster, P., Buffing, A., Naafs, B., Das, P. The Netherlands
- IM11** The role of cytokines in the pathogenesis of ENL. KAPLAN, Gilla. U.S.A.
- IM12** A distinct Th1/Th2 pattern of cytokine mRNA expression in leprosy patients undergoing reactional episodes. MORAES, Milton, Sarno, E., Almeida, A., Saraiva, B., Nery, J., Sampaio, E. Brazil
- IM13** A possible role for IFN $\gamma$  and IL-12 in the pathogenesis of erythema nodosum leprosum. SAMPAIO, Elizabeth, Moraes, M.O., Saraiva, B.C.C., Almeida, A.S., Teles, R.M.B., Sarno, E.N. Brazil
- IM14** Lymphocyte-macrophage contact provides a potent stimuli amplifying TNF- $\alpha$  production in leprosy. SAMPAIO, Elizabeth Pereira, Oliveira, R.B., Warwick-Davies, J., Griffin, G.E., Hernandez, M.O., Sarno, E.N., Shattock, R.J. Brazil

## SESSION 36

### Immunology III

Thursday, 10 September 1998

#### 13:00 (Room 6)

- IM15** Role of interleukin-12 (IL-12) and IL-12 receptor signalling in patients with disseminating infections with *M. leprae* and other mycobacteria. OTTENHOFF, T.H.M. The Netherlands
- IM16** Leprosy patients with lepromatous disease recognise cross reactive T cell epitopes in the *M. leprae* 10 kDa antigen. HUSSAIN, Rabia, Dockrell, H., Shahid, F., Zafar, S., Chiang, T.J. Pakistan
- IM17** T cell and cytokine reactivity to the *Mycobacterium leprae* 45 kDa antigen by leprosy patients, contacts and endemic controls. MacFarlane, Anne, Mondragon, R., Flores, O., VEGA-LOPEZ, F., Wieles, B., Rodriguez, O., de Pena, J., Dockrell, H. United Kingdom
- IM18** Heat shock protein and apoptosis of peripheral blood monocytes in leprosy patients and healthy individuals. NASSAR, Samia, Badria, F., El-Nashar, E., Hawas, S., Hassnein, M., Muller, W. Egypt

- IM19** Dichotomy and paradigm of TH1 and TH2 subsets in relation to their cytokine profile in leprosy pathology. DAS, P.K., Verhagen, C., Wierenga, E., Buffing, A., Chand, A., Aarden, L., Faber, W. The Netherlands
- IM20** Granuloma formation and growth of *Mycobacterium leprae* in INOS deficient mice. ADAMS, Linda B., Scollard, D.S., Krahenbuhl, J.L. U.S.A.
- IM21** The role of transforming growth factor - beta (TGFB) and inducible nitric oxide syntase in leprosy reversal reactions: an immunohistological study. Khanolkar-Young, S., Snowden, D., LOCKWOOD, D.N.J. United Kingdom
- IM22** A study on serum TNF-alpha and SIL-2R in relapses in leprosy. ZHENG, Bi-zhong, et al. China
- IM23** BCG prophylaxis for leprosy in south India. GUPTE, M. India
- IM24** Vaccination against leprosy using naked DNA vaccines. ROCHE, Paul, Martin, E., Neupane, K., Britton, W. Nepal
- IM25** *Mycobacterium leprae*-AIDS virus interactions in monkeys. GORMUS, Bobby J., Xu, K., Murphey-Corb, M., Martin, L.N., Baskin, G.B., Mack, P.A., Ratterree, M.S., Gerone, P.J., Scollard, D.M., Gillis, T.P. U.S.A.
- IM26** Simian immunodeficiency virus (SIV)-associated delay of CD4 cell accumulation at *M. leprae* sites in vivo is accompanied by a delay in lymphocyte responses in vitro. SCOLLARD, David M., Gillis, T.P., Gormus, B.J., Lathrop, G., Murphey-Corb, M. U.S.A.
- IM27** Modulation of lepromin response in multibacillary leprosy following immunochemotherapy (MDT + Mw vaccine) and chemotherapy (MDT + Placebo). SHARMA, Pankaj, Misra, R., Kar, H., Rani, R., Kaur, H., Mukherjee, R. India
- IM28** Immunotherapy with *Mycobacterium w* vaccine in multibacillary leprosy accelerates B.I. decline, reduces therapy duration for smear negativity: a 7 years experience. SHARMA, Pankaj, Misra, R., Kar, H., Rani, R., Kaur, H., Mukherjee, R. India

## SESSION 37

### Microbiology II

Thursday, 10 September 1998

#### 13:00 (Room 8)

- MI01** Identification of species-specific antigenic determinants of *M. leprae* in cultivable mycobacteria. Salamatina, O.S., Dyachina, M.N., Kalykina, O.A., Chernojusova, L.N., Kalyanina, O.V., Yushin, M.Y., JUSCENKO, A.A. Russia

- MI02** Detection of *Mycobacterium leprae* in nasal secretions of household contacts of multibacillary and paucibacillary patients. GILLIS, Thomas, Tan, E., Williams, D., Balagon, M., Cellona, R., Walsh, G. U.S.A.
- MI03** Use of PCR mediated amplification of *Mycobacterium leprae* in different types of clinical samples and serology in leprosy patients and contacts. TORRES MUNOZ, Pedro, Gomez, J.R., Gimeno, V., Terencio, J., Camarena, J., Nogueira, J., Navarro, J., Olmos, A. Spain
- MI04** A comparative study of the detection of *Mycobacterium leprae* by PCR-based methods. GAN, Seng-Chiew, Lim, T.H., Koh, C.L., Nasuruddin, B.A. Malaysia
- MI05** Identification of strain variation in *M. leprae* by amplified ribosomal DNA finger printing. KATOCH, V.M., Sharma, V.D., Singh, H.B., Katoch, K., Natraja, M., Singh, D., Sharma, R.K., Chauhan, D.S. India
- MI06** Detection of *Mycobacterium leprae* by polymerase chain reaction in nasal specimens of leprosy patients and household contacts. Gander, Rita M., LYDE, C.B., Gillis, T.P. U.S.A.
- MI07** A comprehensive study on PCR for detecting infection with *M. leprae*. WU, Qin-xue, Li, T., Ying, Y., Li, X., Hou, W., Zhang, J., Cai, X., Ye, G. China
- MI08** Immunostimulatory "CpG" motifs in the DNA of *M. leprae*. Tascon, Ricardo, COLSTON, M.J. United Kingdom
- MI09** PCR assay for the detection and identification of *M. leprae* in patients in the United States. SCOLLARD, David M., Gillis, T.P., Williams, D.L. U.S.A.
- MI10** The proteome of *Mycobacterium leprae*. BRENNAN, Patrick J., Belisle, J.T., Pessolani, M.C.V. U.S.A.
- MI11** Secreted proteins of *Mycobacterium leprae*. HARBOE, Morten, Wiker, H.G. Norway
- MI12** Preparation and application study of alpha 2 antigen of *Mycobacterium leprae*. YING, Yue-ping, Yasuhko, S., Masanao, M., Wu, Q., Hou, W. China
- MI13** Prospects of using *M. lufu* in leprosy studies. Yushin, M.Y., Dyachina, M.N., Kalyanina, O.V., Degtyarev, O.V., Bochanovsky, V.A., JUSCENKO, A.A. Russia
- MI14** Gene vaccination for *M. leprae* hsp65 using plasmid DNA carrying immunostimulatory sequences. NOMAGUCHI, Hiroko, Aye, T.M., Yogi, Y., Okamura, H., Miyata, M., Sato, Y. Japan

**SESSION 38**  
**Microbiology III**  
*Thursday, 10 September 1998*

**13:00 (Room 9)**

- MI15** Devising a more perfect leprosy vaccine. CHAKRABARTY, A.N., Dastidar, S.G. India
- MI16** In vitro determination of antimicrobial susceptibility of *Mycobacterium leprae* by the microplate alamar blue assay. FRANZBLAU, Scott. U.S.A.
- MI17** A new rapid method to measure rifampicin resistance in *Mycobacterium leprae*. Cole, Stewart, Honore, N., Thomas, A., ROCHE, P. Nepal
- MI18** The dihydropteroate synthase of *Mycobacterium leprae* and dapson resistance. WILLIAMS, Diana, Gillis, T.P. U.S.A.
- MI19** Rifampicin resistant *Mycobacterium leprae* isolated from Japanese patients and mutation in *rpoB* gene. MATSUOKA, Masanori, Kashiwabara, Y., Gidoh, M., Kai, M., Maeda, S., Nakata, N., Nagao, E., Kinjoh, K. Japan
- MI20** How *M. leprae* defeats a defense mechanism of the host. PRABHAKARAN, K., Harris, E.B., Randhawa, B. U.S.A.
- MI21** Structural analysis of the high molecular mass penicillin-binding protein 1 of *Mycobacterium leprae*. Mahapatra, Sebabrata, Das, S., BASU, J. India
- MI22** Some biochemical features of the interaction of *Mycobacterium leprae* with laminin Mam, Marques, Brennan, P.J., PESSOLANI, M.C.V. Brazil
- MI23** Structural characterization of the cell wall of *Mycobacterium leprae*. CHATTERJEE, Delphi, Motichka, K., Brennan, P. U.S.A.
- MI24** Comparison of assessment of viability by normal mouse footpad, ATP measurement and PCR assays. GUPTA, U.D., Katoch, K., Singh, H.B., Natrajan, M., Sharma, V.D., Katoch, V.M. India
- MI25** Identity of the leprosy bacillus with CAN bacteria. DASTIDAR, Sujata G., Sen, A., Chakrabarti, A., Chakrabarty, A.N. India
- MI26** Gram-positive coccoid microorganisms cultivated from the Hansen's disease patient specimens, and *M. leprae*. HIRATA, Tsunehiko. Thailand
- MI27** In vitro cultivation of *Mycobacterium leprae* with interleukin-2. OH, Choong-San. Korea
- MI28** Cultivation of *Mycobacterium leprae* in artificial culture medium. BISWAS, S. India

## SESSION 39

### Pathology II

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- PA01** Histopathologic findings of iridocyclitis in lepromatous leprosy. JOB, Charles, Thompson, K., Daniel, E., Ebenezer, J. India
- PA02** Solitaries nodules with necrotizing vasculitis: a late event of erythema nodosum leprosum (ENL). FLEURY, Raul, Opromolla, D, Ura, S. Brazil
- PA03** Relationship between capillary pattern and amyloid deposition in secondary amyloidosis of leprosy. FLEURY, Raul, Opromolla, D., Assis, G. Brazil
- PA04** Visceral involvement during Type I reactions in leprosy. FLEURY, Raul, Opromolla, D. Brazil
- PA05** Histological changes in the nasal mucosa of patients with primary neuritic leprosy. SUNEETHA, Sujai, Arunthathi, S., Job, A., Date, A., Kurian, N., Chacko, C.J.G. India
- PA06** Significance of plasma cells in histological classification of leprosy. LAKSHMI RAJAN, G. India
- PA07** Localization of *M. leprae* to epineural blood vessels in experimental leprosy neuritis. SCOLLARD, David M., McCormick, G.T., Allen, J.L. U.S.A.
- PA08** Infection of distal peripheral nerves by *M. leprae* in armadillos: An experimental model of nerve involvement in leprosy. SCOLLARD, David M., Lathrop, G., Truman, R.W. U.S.A.
- PA09** Role of PCR in the diagnosis of early leprosy. Job, Charles K., Jayakumar, J., Williams D., GILLIS, T.P. U.S.A.
- PA10** Histopathologic changes of skin lesions in relapsed borderline tuberculoid patients. JOB, Charles, Jeyakumar, J., Aschhoff, M. India
- PA11** Histological evolution of reactivation of Hansen's disease during or after treatment. Trindade, Maria, FLEURY, R., Escuder, M., Ghidella, C., Aveller, J., Viana, F., Marques, A., Ura, S. Brazil
- PA12** Laboratory methods in diagnosis of leprosy relapse. WENG, Xiao-man, Li, H.-Y., Li, F.-T., Ran, S.-P. China
- PA13** Relationship between pathological and clinical manifestations in MB patients during MDT. MA, Jia-ju, Deng, Y., He, C., Zhang, X., Yin, Y., Men, F., Sun, L. China

**PA14** Clinico-pathological correlations of macular lesions in leprosy, before and after multi-drug therapy. MANI, Mohan Z. India

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- CO72** The Nepal network of leprosy N.G.O.s. BUTLIN, C. Ruth. Nepal 002
- CO73** Evaluation on key county activity for leprosy control from 1990 to 1996 in Guangdong. CHI, Ying-qing, Xu, Y. China 003
- CO74** Improving accessibility to MDT in difficult areas. Amazaonas State, Brazil. CUNHA, Maria da Graca Souza, Brito, O.S., Der Meer, W.C., Pedrosa, V.L., Ibanez, L.S., Berbegal, M.R. Brazil 004
- CO75** The decrease of Hansen's disease prevalence in the State of Minas Gerais - Brazil from 1986 to 1997. DE FARIA GROSSI, Maria Aparecida, Leboeuf, M.A.A., de Magalhaes, E.da S.B. de M., Ferreira, M.A.A. Brazil 005
- CO76** Prioritizing municipalities - Strategy for Hansen's disease control in a Brazilian state with 853 municipalities. DE FARIA GROSSI, Maria Aparecida, Leboeuf, M.A.A., de Magalhaes, E.da S.B. de M. Brazil 006
- CO77** Problems and strategies after basic eradication of leprosy. FU, Hui-lai, Lu, M. China 007
- CO78** Leprosy elimination plan - Baixada Fluminense/RJ: An experiment on university - health services integration. GOMES, Maria Katia, Dias, M.S.C., Silva, C.L., Santos, T.M.T., Teixeira, M.J.O., Castro, M.G.C. Brazil 008
- CO79** Hansen's disease care delivery in a country of low endemicity (USA). GUERRA, Irma. U.S.A. 009
- CO80** Epidemic and control of leprosy in Guangzhou. GUOXI, Fang, Shaoqiong, Y., Youhong, H., Qizhi, M., Lihe, Y. China 010
- CO81** Lot quality assurance sampling (LQAS) technique for monitoring leprosy control programmes. GUPTE, Mohan, Murthy, B. India 011
- CO82** Update on the ongoing leprosy vaccine trial in south India. GUPTE, Mohan. India 012

- CO83** Sixty years of leprosy control in Hanzhong Sanatorium, Shanxi Province, China. HE, Cun-xin, Deng, Y., Ma, J., He, J. China 013
- CO84** The use of photography to motivate leprosy staff workers. JAUCIAN, Arthur . Bangladesh 014
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- CO86** Statistical discharge - cohort study of Hansen's disease patients who became prevalence cases again after having been administratively discharged due to default. LEBOEUF, Maria Ana Araujo, de Faria Grossi, M.A. Brazil 016
- CO87** A study of 18-year surveillance of leprosy prophylaxis by DADDS injection. LU, Yun-qing. China 017
- CO88** Demands of 4390 cured leprosy cases for health services. MAO, Zhi-min, Xu, Z., Zhang, W., Wang, F., Zhou, J., Hong, W. China 018
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- CO91** Leprosy control program in Morocco with its unique regimen. NAMISATO, Masako, Smahi, F., Sekkat, A., Izumi, S., Murakami, K., Ogawa, H. Japan 021
- CO92** Monitoring human resources for control actions in Hansen's disease. NOGUEIRA, Wagner, Marzliak, M.L.C. Brazil 022
- CO93** Implanting special procedures for epidemiological surveillance of Hansen's disease in the municipalities of the State of Sao Paulo-Brazil with elimination prevalence. NOGUEIRA, Wagner, Goncalves, O.S.J., Metello, H.N., Sanches, M.A.P., Lessa, Z.L., Diniz, M.dL.B. Brazil 023
- CO94** Monitoring the use of thalidomide in the state of Sao Paulo-Brazil. NOGUEIRA, Wagner, Karl, W.M., Eto, C.S. Brazil 024
- CO95** Information nationale sur la lepre a travers des appels gratuits au ministere de la Sante - Bresil. Magalhaes, C., Ayer, E.Z., OLIVEIRA, M.L.W., Torres, W., Ledra, V.J., Penne G. Brazil 025
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- CO97** Leprosy elimination campaign, Amazonas-Brazil, 1997. PEREIRA, Emilia dos Santos, Cunha, M. da G.S., Maroja, M. De F., Tavares, T., Ibanez, L.S., R.Berbegal, M.D.P. Brazil 027

- CO98** Implementation of joint TB programme in a leprosy project - Participation of Anganwadi workers (grass-root level) in administration of DOTS. RAO, V. Prabhakara, Bhuskade, R.A., Sudhakar, K., Chauhan, T.S. India 028
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- CO107** Lepre et Lutte Antilepreuse Dans Les Huit Pays Membres de L'Occge de 1935 A 1997. TIENDREBEOGO, Alexandre. Mali 037
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- EP44** **La lepre en Algerie.** BOUDGHENE-STAMBOULI, O., Merad-Boudia, A. Algeria 044
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- EP46** **Leprosy disease in minors 15 years of age and under: The influence of detection procedures on clinical and epidemiological characteristics.** Duppre, N.C., NERY, J.A.C., Garcia, C.C., Periera, R.M.O., Sarno, E.N. Brazil 046
- EP47** **Analysis of 512 children with leprosy.** DUAN, Zhong-dong, Kuang, V.F., Di, X.D., Wang, J.X., Gao, X.L. China 047
- EP48** **The epidemiology of leprosy and its control in Tibet.** DUOJIJIANGCUN. China 048
- EP49** **Genetic markers in leprosy.** GHEI, S.K., Qamra, S.R., Sengupta, U., Girdhar, B.K. India 049
- EP50** **Leprosy in infancy: HUCFF-UFRJ (Rio de Janeiro, Brazil) statistics (1990-7).** GOMES, Maria Katia, Lamy, F., Castro, M.G.C., Pimentel, M.I.F., Oliveira, M.L.W., Pereira, Jr., A.C. Brazil 050
- EP51** **The determination of IgM antiphospholipid-1 antibodies in cured leprosy patients.** LI, Zhi-cheng, Yu, H., Zhang, F., Wang, D. China 051
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- EP54** **Incidence rates and use of a logistic regression model to characterise risk factors in a cohort study.** MATOS, Haroldo, Duppre, N, Alvim, M.F.S., Vieira, LM.M., Sarno, E.N., Struchiner, C.J. Brazil 054
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- EP57 The effectiveness of the BCG-ID vaccine among household contacts of multibacillary leprosy patients - A retrospective study.** Duppre, N.C., Nery, J.A.C., Wanzaeller, S.H., Mattos, H., SARNO, E.N., Struckiner, C.J. Brazil 057
- EP58 Impact of HIV infection on survival of leprosy and tuberculosis patients in Mwanza, Tanzania.** VAN DEN BROEK, J., Mfinanga, S., Moshiro, C., O'Brien, R., et al. The Netherlands 058
- EP59 Modelling the prevalence of persons affected by leprosy in Tanzania.** VAN DEN BROEK, J., van der Steen, F., Rubona, J., van Wijnen, A. The Netherlands 059
- EP60 Household contacts still at high risk?** VIJAYAKUMARAN, P., Manimozhi, N., Jesudasan, K. India 060
- EP61 Epidemiological characteristics of leprosy in low endemic areas along the middle-lower reaches of Yangtze River.** ZHU, Zhong-jiang, Sun, Q., Xu, M. China 061
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- PS35 Economic self sufficiency and social integration of displaced leprosy affected persons through micro enterprises.** DEVADAS, T. Jayaraj, Srinivasan, G.R. India 069
- PS36 Factors that affect leprosy patient's decision to disclose his illness to others.** GONZAGA, Edgardo M., Gepte, T.A., Lupisan, S.P., Medalla, F.M. Philippines 070
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- TR18** In service training module for social assistants and theoretical methods of assessment of such practices in the attention for Hansen's disease patients. GONCALVES, Otilia Simoes J., Metello, H.N., Nogueira, W., Lopes, A., Guisard, C.L.M.P., Cardoso, A.A.A.C., Bizetto, M.S.F., Jesus, R.C., Verri, M.H., Coutinho, R.P.M. Brazil 087
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