



18 Activities of the Training and Extension Division

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Training Programmes/workshops conducted

18.1 Two Training Programmes for German Doctors on tropical and travel medicine jointly organized by Jadavpur University during 26 April to 6 May 2004 and 16-26 November 2004:

Two training programmes were organized in this Institute in collaboration with Institute of Tropical Medicine and Centre for Travel Medicine, Berlin, Germany and Jadavpur University, Kolkata. The aim of the course is to provide knowledge and skill in applied clinical tropical medicine in hospitals in Kolkata, India. In the first training course seven and in the second course twelve German doctors attended the course. Inauguration functions of both the courses were graced by Prof. S. Sanyal, Pro-Vice Chancellor and Prof. Subrata Pal, Faculty of Life Sciences, Jadavpur University, Kolkata. Dr. S.K. Bhattacharya, Director, Dr. S. Chakrabarti and Dr. P. Dutta, Deputy Directors, Senior Grade, Dr. D. Sur, Deputy Director, Dr. K. Sarkar, Assistant Director, delivered the talk. Dr. S.S. Dutta, Director of Pasture Institute, Dr. A. Chowdhury, Dr. P. Chowdhury from S.S.K.M. Hospital, Dr. S.K. Roy from Medical College, Dr. M. Lahiri from B.C. Memorial Hospital for Children were invited to deliver talk as external lecturers. The participants also visited the following hospitals and institutes to see the patients : Dr. B.C. Roy Memorial Hospital for Children, Dr. B.C. Roy Hospital for Crippled Children, Infectious Diseases Hospital, Skin Department of National Medical College, Pasteur Institute, Leprosy Home. They also visited Jadavpur University to get an idea of research activities on indigenous medicine.

18.2 National Technology day celebration on May 11, 2004:

National Technology Day a lecture session was celebrated in the Institute. Prof. S.P. Mukhopadhyay, Prof. & Head, Department of Management Research and Fellowship Programme, Consultant Health and Hospital Management (IISW & BM), Kolkata delivered a talk on "Population and development". All the staff of the Institute attended the meeting.

18.3 Ph.D. orientation course from 14-18 June, 2004:

15 freshly recruited Ph.D. students were undertaken an orientation course during 14-18 June 2004. The objective of the training programmes was to inform the different aspects of diarrhoeal diseases. Series of lectures were delivered by the faculties of the Institute. They had also hands on training to use the sophisticated instruments. They faced viva voce examination conducted by external and internal examiners.

18.4 Training programme on Clinical Management and Diagnostic Aspects of Diarrhoeal Diseases for the doctors of Tripura states during 12-23 July 2004.

Director of Health Services, Govt. of Tripura, deputed Dr. Subrata Roy, Microbiologist and Sri Pujan Sarkar Dey to attend a short term reorientation training course for two weeks during 12-23 July 2004.

18.5 Visit of Mr. Shogo Arai, Parliamentary Secretary for Foreign Affairs, Japan on 15 July 2004.

Mr. Shogo Arai, Parliamentary Secretary for Foreign Affairs, Japan visited this Institute on July 15, 2004. In this occasion Dr. S.K. Bhattacharya, Director of this Institute





welcomed Mr. Arai and other delegates. Dr. Bhattacharya also delivered a lecture on overview of the activities of the Institute. Mr. Arai visited the laboratories of the Institute.

18.6 Four Extramural Training Programmes on Immunization Strengthening Project (funded by Ministry of Health & Family Welfare, Govt. of India)

Immunization is one of the most effective public health interventions to reduce childhood mortality and morbidity due to vaccine preventable diseases. It is also very cost effective. Mid level managers are responsible for effective implementation and supervision of various activities of this programme in our country. They must be there fore, up dated their knowledge, in line with the recent vaccines in this field. Their updated knowledge will equip them further to strengthen the immunization programme of this country. With this view in mind, Ministry of Health and Family Welfare, Govt. of India proposed to train all the district level officers under the programme on Immunization Strengthening Project.

Ministry of health & family welfare, Govt. of India selected 5 Institutes in different parts of India as nodal Institutes to train the midlevel officers. Our Institute is one of these Institutes and got the responsibility for conducting four extramural training programmes two for Assam and two for Orissa. During April 2004 to March 2005 four training programmes were conducted. Dates of these meeting and the number of participants attended are mentioned in Table.

18.7 WHO Biennium funded workshop on Data Based Generation on Disease Burden Estimation

WHO sponsored meeting on Data Based Generation on Disease Burden held at this Institute on 29th July 2004. Following participants were present: Prof. V.I. Mathan, Prof. K. Ramachandran, Dr. A. Pandey, Dr. P.S.S. Sundar Rao, Dr. Lalit Das, Dr. Aswini Kumar, Mr. K. Rajedran, Dr. Alok Deb, Mr. Satinder Singh, Dr. Ambujam Nair, Dr. Sujatha Rao, Dr. B. Manna.



JICA-NICED Domestic Training Programme.





Table 8.6.1. Dates and number of participants attended in these Training Programmes on Immunization Strengthening Project organised at Regional Medical Centres of Bhubaneswar, Orissa and Dibrugarh, Assam

Dates	Centre	Nominated	Attended
19-24 July, 2004	Dibrugarh, Assam	35	8
30th August to 4th September 2004	Bhubaneswar, Orissa	45	18
24-29 November 2004	Bhubaneswar, Orissa	42	15
6-11 December 2004	Dibrugarh, Assam	50	21

Table 18.5.2. Name of the faculties involved in ISP training programmes

Sl.No.	Name of the Institute/ Medical Colleges	Name of the Faculties
1	National Institute of Cholera & Enteric Diseases	1 Dr. S.K. Bhattacharya, Course Director 2. Dr. P. Dutta 3. Dr. D.N Gupta 4. Dr. S.K Mondal 5. Dr. S. Ghosh 6. Dr. U. Mitra
2.	Regional Medical Research Centre, N.E. Region, Dibrugarh, Assam	1. Dr. J. Mahanta 2. Dr. H.K. Das
3.	Regional Medical Research Centre, Bhubaneswar, Orissa	1. Dr. S. Kar 2. Dr. A. Mahapatra

18.8 Workshop of Immunology Study Group West Bengal

The seminar was organized at the Auditorium of the Institute on 13th August 2004 under the banner of Immunology Study Forum. Dr. Tania Das of Bose Institute delivered a talk on "Black tea in cancer and immunity". Ms. Nivedita Mazumder of Bose Institute also delivered a talk on "Dual role of IL-10 in LAM - treated macrophages". Members of the Immunology Study Group, West Bengal, Scientists and research fellows of this Institute attended the seminar.

18.9 Training programme for the medical students of Japan

Twelve medical students of Kanazawa University, Japan, visited the Institute during 21st and 24th August 2004. Lecture was delivered on overview of diarrhoeal disease by Dr. S.K. Bhattacharya, Director of this Institute. They observed the laboratory facilities of this Institute. They also visited Infectious Diseases Hospital, Kolkata to observe some of the infectious diseases including diarrhoea.





18.10 Training programme of INFORMATICS

This programme was held on 28 August 2004 at NICED as an awareness programme on online journals. This programme was attended by the scientists and fellows of the Institute as well as the Library Professionals.

18.11 Organize the visit of students of Chaitanya PG College, Andhra Pradesh

Fourteen post graduate students of Chaitanya PG College visited NICED on 13.9.2004 for training on laboratory aspects of diarrhoeal pathogens.

18.12 JICA-NICED Domestic Training Programme on Molecular Epidemiology of Diarrhoeal Diseases with special reference to cholera jointly organized by NICED and Japanese International Cooperation Agency (JICA)

Diarrhoeal disease is still a major problem in several parts of India. Use of molecular biological tools will provide comprehensive information at the gene level, which are highly reliable, reproducible and also helps in tracing the origin/reservoirs of the pathogens. Hence, it is very important to study the genetic relatedness between the strains using various molecular epidemiological tools to differentiate the isolates from epidemiologically unrelated strains. This domestic training programme organized by JICA- NICED and ICMR from during 27 September to 6 October 2004 helped several researchers to initiate molecular epidemiological studies related with diarrhoeal disease in India. The major objective of this programme is to train the Indian scientists in molecular typing methods using standard techniques. The data generated by the scientists in their respective centers after undertaking the training is expected to participate in the national database program on cholera epidemiology.

Dr. S. Yamasaki, Professor, Osaka Prefecture University, Osaka, Japan acted as external expert. Dr. S.K. Bhattacharya, Director, Dr. S. Chakrabarti, Deputy Director (Senior

Grade), Dr. P. Dutta, Deputy Director (Senior Grade), Dr. S.K. Niyogi, Dr. D Sur, Deputy Director, Dr. T. Rammurthy, Deputy Director, Dr. R. Nandy, Senior Research Officer, Dr. A. Mukhopadhyaya, Research Officer of this Institute were also acted as experts. Thirteen research fellows of this Institute acted as instructors.

18.13 Training Programme on Molecular Genetics of *Vibrio cholerae* sponsored by American Society of Microbiology (ASM)

A seminar was organized at this Institute in collaboration with American Society of Microbiology (ASM) during 8-12 November 2004. Dr. Karl E. Klose, Prof. Department of Biology, University of Texas, Santa Rio, visiting professor of ASM conducted this workshop. 20 Ph.D. students of this Institute attended this programme. Dr. T. Ramamurthy, Dr. R. Nandy, Dr. A.K. Mukhopadhyay assisted Dr. Klose to conduct this workshop.

18.14 3rd Country JICA-NICED Training Programme on Molecular Epidemiology of Diarrhoeal Diseases with special reference to cholera jointly organized by NICED and Japanese International Cooperation Agency (JICA)

The JICA-NICED Third country training Programme on "Molecular Epidemiology of Diarrhoeal Diseases with Special Reference to Cholera" was conducted between November 22 to December 5 2004. The following twelve participants were selected as forwarded by the JICA India office, New Delhi through proper diplomatic channel:

This course was inaugurated on November 23rd by Prof. Ashoke Choudhury, President, West Bengal State Medical Council, in presence of Mr. Kenji Shimuzu, Consul General, Consulate General of Japan, Kolkata; Mr. Takashi Matsumoto, Assistant Resident Representative, JICA India office, New Delhi, Prof. Shinji Yamasaki, Osaka Prefecture University, Osaka, Japan and Dr. S. K. Bhattacharya, Direc-



**Table 18.12.1 Name of the candidates and nominated Institutes of NICED-JICA Domestic training Programme**

Name of the Candidates	Nominated Institute
Dr. V. Dhanalakshmi	Institute of Microbiology, Madurai Medical College, Madurai
Dr. B. Shantiadhyia	Institute of Microbiology, Madurai Medical College, Madurai
Dr. Dr. Neelam Taneja	PGIMER, Chandigarh
Dr. Tanuja Chakraborty	Govt. Medical College, New Civil Hospital, Surat
Dr. Manjula Srihran	School of Life Sciences, University of Hyderabad
Dr. Urvesh V. Shah	BJ Medical College, Asarwa, Ahmedabad
Dr. N.C. Sharma	M.V.I.D. Hospital, Delhi
Dr. Chandan Dhondiram Sabale	Dr. V.M. Medical College, Solapur, Maharashtra
Dr. Vandana Vermaangi	Christian Medical College & Brown Memorial Hospital, Ludhiana
Dr. Naveen Saxena	S.P. Medical College, Bikaner, Rajasthan
Dr. Susmita Bhattacharya	N.R.S. Medical College, Kolkata
Dr. Tarun Kumar Roy	Gobinda Ballah Panth Hospital, Agartala, Tripura
Dr. Aparna Yadav	Pt. B.D. Sharma PGIMS, Rohtak
Dr. S. Muralidharan	St. John's Medical College, Bangalore
Dr. Kavita Raja	Medical College, Thiruvananthapuram

tor of the Institute.

Dr. S. Yamasaki, Professor, Osaka Prefecture University, Osaka, Japan acted as an external expert. Dr. S.K. Bhattacharya, Director, Dr. S. Chakraborti, Dr. P. Dutta, Deputy Directors (Senior Grade), Dr. D. Sur, Dr. T. Ramamurthy, Deputy Directors, Dr. R.K. Nandy, Senior Research Officer, and Dr. A. Mukhopadhyaya, Research Officer of this Institute acted as course facilitators and they delivered talks on different subjects. Thirteen Ph.D students of the Division of Microbiology acted as instructors by assisting the faculties to conduct the practical sessions. In the

practical, different aspects composed of isolation and identification of *Vibrio cholerae* and *Vibrio parahaemolyticus*, *Escherichia coli* and *Shigella* spp; pulsed-field gel electrophoresis (PFGE) to determine the clonality of *V. cholerae*; simplex and multiplex polymerase chain reaction (PCR) to determine the specific genes among *V. cholerae* O1 and O139 serogroups, *V. parahaemolyticus*, diarrhoeagenic *Escherichia coli*; group-specific PCR for the detection of pandemic strains of *V. parahaemolyticus*; extraction and analysis of chromosomal DNA from *V. cholerae*; extraction and analysis of plasmid DNA containing the r-RNA probe fragment; construction of dendrogram using PFGE profiles;





ribotyping of *V. cholerae* O1 and O139 serogroups were covered under this programme. The participants visited the Infectious Diseases Hospital, Kolkata to have an idea on how the diarrhoeal patients are receiving the treatment and the symptoms based diagnosis of the disease.

All the participants presented their area of research interest during the special session in the programme. During the last day of the course, Dr. S.K. Bhattacharya, Director, NICED, gave away the certificates to the participants.

Table 18.14.1 List of participants of NICED-JICA 3rd country training programme

Name of the participants	Country
Dr. Azharul Islam Khan	Bangladesh
Ms. Jasmin Akter	Bangladesh
Dr. Hasna Hena Pervin	Bangladesh
Mr. Bijay Kumar Khajanchi	Bangladesh
Dr. N.S. Chandrasiri	Sri Lanka
Dr. K.M.M.P. Dassanayake	Sri Lanka
Ms. JuLiana Chepkemoui Tonui	Kenya
Prince DOE John Tamakloe	Ghana
Mr. Donati Paskali Mlay	Tanzania
Ms. Josefina Geronimo Garcia	Philippines
Mr. Binay Thapa	Bhutan
Mr. Duochun Wang	People's Republic of China

18.15 Training programme for WHO fellows for Research Methodology

The following eight WHO fellows attended training programme during 8-21 November 2004

Dr. Kumari Jayageetha	Kerala
Dr. Peyyala Venkata Vara Prasad,	Andhra Pradesh
Dr. Gurivireddy Ravi Chandra Reddy	Andhra Pradesh
Dr. Lakshmana Kumar Yerneni	New Delhi
Dr. Jaydip Deb	West Bengal
Dr. Nayan Ranjan Mandal	Tripura
Dr. Chittaranjan Manna	West Bengal
Dr. Venugopal Acharya Middela	Andhra Pradesh

18.16 Training programme for WHO fellows for DNA-PCR based techniques for detection of diarrhoeal pathogens

Four WHO fellows attended this Institute to undergo training programme on DNA-PCR technologies for detection of diarrhoeal pathogens during 13-22 December 2004.

Dr. Rama Saha	Kolkata, West Bengal
Mr. Mukesh Kumar	Delhi
Dr. Sunil Gupta	Delhi
Dr. Ratnakar Bhalchandra Kulkarni	Maharashtra





18.17 Training programme for Clinical Management of Acute Diarrhoea

Dr. Sarathi Partha Pal
Tripura

18.18 Training programme for International WHO fellows for Clinical Management of Acute Diarrhoea

Three doctors from DPR, Korea, attended the training course of management of acute diarrhoea of children for four months during 29th August to 24th December 2004

Dr. Kang Sung Chel	Korea
Ham Song Chan	Korea
Hong Yong IL	Korea

18.19 Training programme for Delhi Municipality doctors for diagnosis and management of diarrhoeal diseases including cholera

Three doctors of Infectious Diseases Hospital, Delhi attended the training course during 27-28 January 2005. Dr. P. Dutta, Deputy Director (Senior Grade) took care of clinical management part and Dr. T. Ramamurthy, Deputy Director, took care of diagnostic aspect of the training programme.

18.20 Training programme for the students of National Homeopathy Medical College, Kolkata

Fifty BHMS students of the National Institute of Homeopathy visited the Institute on 8th February 2005 to acquaint themselves with different facets of diarrhoeal diseases and its management. They also apprised the present situation of AIDS in our country. Lectures on respective topics were delivered by Dr. S. Chakrabarti, Dr. P. Dutta, Dr. D.N. Gupta, Deputy Directors (Senior Grade), Dr. S.K. Mondal, Dr. D. Sur, Dr. D.N. Gangopadhyay, Deputy Directors.

18.21 ICMR-Lancet-IPHA (WB) workshop on medical paper writing

Three editorial board members of the Lancet conducted the workshop for the scientists and research scholars of this Institute and for the faculties of four medical colleges of Kolkata on 21 February 2005. A total of 60 participants attended the meeting. Prof. Jacob John was nominated by ICMR HQ to organize this workshop.

18.22 3rd Phase External Quality Assurance Scheme for HIV testing funded by NACO

Twenty laboratory personnel working in the different medical colleges and blood banks of West Bengal attended this programme during 22-24 February 2005.

18.23 National Science Day celebration

The theme of the National Science Day for the year 2005 was "Celebration of Physics". This day was celebrated in this Institute on 28 February 2005. Prof. Ashok Sen, Sr. Professor of Saha Institute of Nuclear Physics, Kolkata, delivered a talk on "Dynamics of Complex System from Geology to Biology". All staff members attended the meeting.



Inaugural Session of JICA-NICED domestic Training Programme.





18.24 All India meeting and workshop on phase III clinical trials with once a month injectable contraceptive cycloferm and with subdermal implant - Implanon

This meeting was primarily conducted to review the progress of ongoing clinical trial with one monthly injectable contraceptive 'Cycloferm' and sub-dermal implant 'Implanon' being conducted through the HRRCs during 19-20 March 2005. Research Officer and one Research Fellow of the following participating centers attended this meeting:

SMGS Hospital, Jammu, PGI, Chandigarh, Kasturba Hospital, Delhi, Safderjung Hospital, Delhi, KGMC, Lucknow, MLN Medical College, Allahabad, LLRM Medical College,

Meerut, GSVM Medical College, Kanpur, JNMC Medical College, Belgaum, Medical College, Patna, KEM Hospital, Pune, BJ Medical College, Pune, SMS Medical College, Jaipur, Medical College, Bikaner, SAT Hospital, Trivandrum, IOG, Chennai, Medical College, Goa, JJ Hospital, Mumbai, SSKM Hospital, Kolkata, Eden Hospital Kolkata, RG Kar Medical College, Kolkata, JIPMER, Pondicherry.

18.25 Training programme for the medical students of Japan

Three students from Yokohomo City University visited this Institute on 22 March 2005. Dr. Bhattacharya, Director, delivered a talk on institutional profile. They visited the Infectious Diseases Hospital, Kolkata.

18.26 Organize the lecture of Guest Speakers

Date	Name	Affiliation	Talk
22 November 2004	Dr. Dale Whittington	Professor, University of North Carolina at Chapel Hill, Department of Environmental Sciences and Engineering Rosenau CB 7431, Chapel Hill	House hold demand and willingness to pay for cholera and typhoid vaccines.
11 January 2005	Prof. N. Kobayashi	Head, Department of Hygiene, Sapporo Medical University, School of Medicine, Japan	Community acquired methicillin resistant staphylococcus aureus (CAMRSA) as an emerging pathogen.
7th February 2005	Dr. Masaho Ishino	Assistant Professor, Department of Hygiene, Sapporo Medical University, School of Medicine, Japan	NSP4 of human group B rotavirus has an enterotoxin like sequence that cause diarrhoea in neonatal mice.
17th February 2005	Dr. Asis Kumar Ghosh	Department of Pathology, Saint Louis University, Saint Louis, Missouri, USA	MBP-1, a novel cellular factor involved in transcriptional regulation and apoptosis.





18.27 Summer Training Programme conducted for the Students of the following Universities during April, 2004 to March, 2005

A total of 34 students of Microbiology and Biotechnology of different universities were trained in the Divisions of Microbiology, Virology, Immunology and Vaccine Development for a period of one to three months. Name of the universities are given in the table 18.27.1

Table 18.27.1 Name of the universities and the number of students attended the summer training programme.

Universities	Number of Students
Calcutta University, Kolkata	9
Kalyani University, West Bengal	4
Bardhaman University	4
Vidyasagar University, West Bengal	7
Bangalore University, Karnataka	10
Kannur University, Kerala	1
Sambalpur University, Orissa	1
Jiwaji University, Gwalior	1
Doon University, Dehradun	1

18.28 Organise the Institutional seminars for the Scientists and fellows.

Every Thursday, one of the scientist of the Institute delivers a talk on his/her field of work or common scientific topic. All the Scientists and research fellows attended the meeting.

18.29 Ms. Pritha Ghosh, Indiana University School of Medicine, 406 D Canan Court South, Indiana Polise IN 46202, USA - completed orientation trained course on laboratory diagnosis and management of acute diarrhoeal diseases during 30th November to December 24, 2004.



Observation of sterilisation of immunization session.

