

ANNUAL REPORT 2004-2005



National Institute of Cholera and Enteric Diseases

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Preface



Like that of previous years, National Institute of Cholera and Enteric Diseases, Kolkata continued to pursue its research goal devotedly on different aspects of diarrhoeal diseases, organized workshops, training programmes for manpower development, assisted the various State Governments in conducting investigations on diarrhoeal disease outbreaks including cholera outbreaks and suggested control measures. Institute provided services to several laboratories of our country by providing *Vibrio cholerae* O1, O139 antisera and by phage typing the *Vibrio cholerae* strains isolated by these laboratories.

During the year under report, emphasis was given for infrastructural development of the Institute. The existing institute's building was repaired thoroughly and repainted. Govt. of West Bengal has provided another ward of that hospital for HIV/AIDS patient care unit and for health counseling center for HIV/AIDS patients.

Apart from our routine surveillance to identify and molecular characterization of diarrhoeal pathogens, we have also initiated community-based studies to understand the effect of zinc supplementation in reduction of diarrhoea. It was observed that weekly zinc supplementation is effective in reduction of diarrhoeal morbidity in children. Supplemented children also have less risk of having multiple episodes of diarrhoea.

Hospital based studies showed that most of the peptic ulcer diseases are associated with the infection of *H. pylori*. Eighty five percent of the *H. pylori* strains isolated in Kolkata were resistant to metronidazole and majority of them had mutation in the *rdxA* gene. However, all the Kolkata strains tested were sensitive to clarithromycin and amoxicillin and furazolidone.

The collaborative project entitled "Prevention of Emerging Diarrhoeal Diseases" with Japanese International Cooperative Agency (JICA) has been renewed for another 5 years. Under this project, super-structure upto second floor of another new building has been completed. A number of scientists and technicians of our Institute have been trained in advanced Japanese laboratories. Many Japanese scientists also visited this Institute. Two training programmes (domestic and third country) on "Molecular epidemiology of diarrhoeal diseases special reference to cholera" were conducted in collaboration with JICA.

Recently, this institute has developed collaborative research activities with International Vaccine Institute (IVI), Korea. Support from CSIR, DBT, WHO, UNICEF and other national and international funding agencies is also gratefully acknowledged.

The guidance, support and cooperation received from the office of the Director General, ICMR and members of the Scientific and other Advisory Committees are gratefully acknowledged. The dedicated and sincere efforts of our scientists, technical and administrative staff and research fellows in enhancing the activities of this Institute deserve my sincere and heartfelt appreciation.

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Message

7th January, 2005

I am extremely happy to keep on record the contribution of **National Institute of Cholera and Enteric Diseases (NICED), Kolkata** for significant research work on diarrhoeal diseases, typhoid fever, infective hepatitis, *Helicobacter pylori* infection and HIV/AIDS. NICED is publishing scientific papers with high impact factors and contributing to development of manpower. Increasing trend of collaborative research activities with various national and international organizations is also appreciated.

As in the past, the Council will make all endeavour to help this institute to achieve its ultimate mission.

Prof. N. K. Ganguly





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