Environmental Determinants of Infectious Diseases in India (Focus COVID-19)

Date: 7th to 10th December 2020

Background
The epidemiological triad for infectious diseases, including COVID-19, consists of environment, agent and host factors. There is a large body of evidence linking environmental factors such as temperature and humidity with infectious disease such as malaria, cholera and the like. However, particularly in the case of COVID-19, the impact of climatological, environmental and extreme weather risk factors such as temperature, humidity and air pollution are less clear. The e-conference will also address critical challenges of multiple disasters such as when cyclones and COVID-19 co-exist. The Indoor Environment is also of particular concern including workplace, school and industry settings, especially in terms of ventilation and air-conditioning. The meeting is expected to bridge this gap and suggest new areas that can be explored to move the field of environment and COVID-19 forward.

Goals and Objectives of the Conference
- To comprehend the association of climate, environment and natural disasters with infectious disease in India with a focus on COVID-19
- To orient students and scholars with research methods in these areas
- To understand how this knowledge can be applied in practice

Conference Design
The main conference will be over 4 half-day sessions, with each of the following subthemes being a focus on a given day
- Climate
- Air Pollution
- Extreme Weather
- Indoor Environment

Deliberations will be through a keynote lectures, expert sessions, panel discussions, posters and oral sessions by scholars

Conference outcomes
- Proceedings of the meeting
- Strengthening scholar research skills
- Dissemination via social media and other channels
- Select presentations published in a journal special issue
- Expanding the UCHAI community of practice (uchai.net)
- For more details see web-link (www.tinyurl.com/iihmreconference)
- Register at https://niehs.zoomgov.com/webinar/register/WN_bRGIJwTmSujf4HfvyqB3aIQ?timezone_id=Asia%2FCalcutta
E-Conference

Environmental Determinants of Infectious Diseases in India (Focus COVID-19)

Time: 6:00 PM to 9:00 PM (IST) /7:30 AM to 10:30 AM (EST)

Date: 7th to 10th December 2020

Conference Session Outline (as per IST)

DAY 1: Monday, 7th December 2020 (Theme: Climatological Determinants)

Session 1: 6:00 to 7:15PM Inauguration
6:00 to 6:05 PM Conference Overview
Dr. Nitish Dogra, Conference Organizer, Convenor, CCEH & Associate Professor., IIHMR, Delhi

6:05 to 6:10 PM Welcome Address on Behalf of Host Institute
Dr. Sutapa B Neogi, Acting Director, IIHMR Delhi

6:10 to 6:15 PM Opening Remarks
Dr. S D Gupta, Trustee Secretary, IIHMR Delhi and Chairman, IIHMR University

6:15 to 6:20 PM Address on behalf of NIEHS
Dr. Gwen Collman, Acting Deputy Director, NIEHS, NIH, United States

6:20 to 6:30 PM Address on behalf of IMS
Dr. M Mohapatra, Director-General, IMD, New Delhi

6:30 to 6:35 PM Address on behalf of UCHAI
Dr Anand Krishnan, Professor, Centre for Community Medicine, AIIMS, New Delhi

6:35 to 6:45 PM Address on behalf of US Embassy
Dr. Preetha Rajaraman, Health Attaché

6:45 to 6:55 PM Special Address
Dr. V M Katooch, NASI-ICMR Chair on Public Health, Rajasthan University of Health Sciences (RUHS)

6:55 to 7:15 PM Keynote Speaker
Dr. Randeep Guleria, Director, AIIMS, New Delhi

Break: 7:15 to 7:30 PM

Session 2: 7:30 to 8:30 PM Expert Session on Climatological Determinants of Infectious Diseases
Chair: Dr. A.K. Sahai, Scientist G, Indian Institute of Tropical Meteorology (IITM), Pune
Speakers:
Dr. Ben Zaitchik, Associate Professor, Johns Hopkins University, United States
Dr. Sagnik Dey, Associate Professor, Centre for Atmospheric Sciences, IIT Delhi
Dr. Nitish Dogra, Associate Professor, IIMR Delhi, New Delhi
Dr. D. R. Patnaik, Scientist F, IMD, New Delhi

Session 3: 8:30 to 9:00 PM Summary by Scientific Committee Members (proposed)
Dr. Ramesh Dhiman, Consultant (Former Scientist G), ICMR-NIMR, New Delhi
Dr. Raza Rafiqul Hogue, Professor, Tezpur University, Assam
DAY 2: Tuesday, 8th December 2020 (Theme: Air Pollution)

Session 1: 6:00 to 7:00PM Expert Session on Impact of Air Pollution on Respiratory Infections

Chair: Dr. Anand Krishnan, Professor, AIIMS, New Delhi
Speakers:
- Dr. Pawan Kumar Taneja, Faculty, Indian Institute of Public Administration (IIPA), New Delhi
- Dr. Shyam Biswal, Professor, Johns Hopkins University, United States
- Dr. Anurag Agrawal, Director, Institute of Genomics & Integrative Biology (IGIB), New Delhi
- Dr. Aakash Srivastava, Joint Director, National Centre for Disease Control (NCDC), New Delhi

Break: 7:00 to 7:15 PM

Session 2: 7:15 to 8:30 PM Panel Discussion on COVID-19 Lockdown on Air Pollution and Health

Chair: Dr. Sekhar Bonu, Director General, Development Monitoring and Evaluation Organization, New Delhi
Panelists:
- Dr. Kristen Koehler, Associate Professor, Johns Hopkins University, United States
- Dr. Pradeep Guin, Associate Professor, O P Jindal Global University, Haryana
- Dr. Harshal Salve, Associate Professor, All India Institute of Medical Sciences (AIIMS), New Delhi
- Dr. S. Padma, Principal Scientist, Central Road Research Institute (CRRI), New Delhi/Dr. Vikas Sharma

Session 3: 8:30 to 9:00PM Summary by Scientific Committee Members (proposed)
- Dr. Preetha Gopinathan, Associate Professor, IIHMR, Delhi
- Dr. Shyam Pingle, Adjunct Professor, PHFI, Gandhinagar, Gujrat

DAY 3: Wednesday, 9th December 2020 (Theme: Extreme Weather)

Session 1: 6:00 to 6:45PM presentation by Scholars (all themes)

Presentation By Scholars
- Dr. M.V.V. Murali Mohan, Regional Training Centre, Visakhapatnam
- Dr. Shilpy Gupta, National Institute of Urban Affairs (NIUA), New Delhi
- Dr. Debanjana Moitra, IIHMR Delhi
- Dr. Sazida Begum, IIHMR Delhi
- Dr. Shivam Kapoor, International Union against Tuberculosis and Lung Disease (IULTD), New Delhi
- Dr. Tavleen Kaur Malik, IIHMR Delhi
- Dr. Neha Mishra, IIHMR Delhi
- Dr. Soumya Rani Gouda, Xavier University, Bhubaneswar

Break/Video Session: 6:45 to 7:00 PM

Session 2: 7:00 to 8:30 PM Panel Discussion on Addressing Extreme Weather & COVID-19 Synergistic Challenges

Chair: Dr. John Balbus, Senior Advisor, NIEHS, NIH, United States
Panelists:
- Dr. Shyamli Singh, Faculty, Indian Institute of Public Administration (IIPA), New Delhi
- Mr. Kamal Kishore, Hon’ble Member, National Disaster Management Agency (NDMA), New Delhi
- Ms. Suruchi Bhadwal, Senior Fellow, TERI, New Delhi
- Dr. Thomas Kirsch, Director, National Center for Disaster Medicine, United States

Session 3: 8:30 to 9:00PM Summary by Scientific Committee Members (proposed)
- Dr. Shyamala Mani, Senior Advisor, PHFI, New Delhi
- Dr. Muralikrishna Iyyanki, Former Director, JNTU, Hyderabad
DAY 4: Thursday, 10th December 2020 (Theme: Indoor Environment)

Session 1: 6:00 to 7:15 PM Panel Discussion on Indoor Environment and Infectious Diseases

Chair: Dr. Prashant Gargava, Member Secretary, Central Pollution Control Board, New Delhi
Panelists: Mr. S A Verma, General Manager, Delhi Metro Rail Corporation (DMRC), New Delhi
Dr. Pratibha Kale, Associate Professor, Institute of Liver and Biliary Science (ILBS), New Delhi
Dr. Ravindra Khaiwal, Additional Professor, PGIMER, Chandigarh
Mr. Leonard Pease, Engineer, Pacific Northwest National Laboratory, USA

Break: 7:15 to 7:30 PM

Session 2: 7:30 to 8:00 PM Summary by Scientific Committee Members (proposed)

Dr. Anuradha Shukla, Former Chief Scientist, CRRI
Dr. Srikanth Nadadur, Program Director, NIEHS, NIH

Session 3: 8:00 to 9:00 PM Session on UCHAI Experience

Chair: Dr. Sanjiv Kumar, Founder Chair, UCHAI Advisory Committee
Speakers: Dr. Meena Sekgal, Senior Fellow, TERI, New Delhi
Dr. Upasona Ghosh, Senior Lecturer, Indian Institute Of Public Health (IIPH), Bhubaneswar
Dr. Shailendra Mandal, Faculty, National Institute of Technology (NIT), Patna
Dr. Jitendra Saini, Chest Specialist Grade-1, National Institute of TB & Respiratory Diseases, New Delhi

Session 4: 9:00 to 9:30 PM Valedictory Session and Scholar Felicitation

Speakers: Dr. John Balbus, Senior Advisor, NIEHS, NIH, United States
Dr. Sutapa B Neogi, Acting Director, IIHMR, Delhi
Dr. Nitish Dogra, Conference Organizer, Convener CCEH & Assoc. Prof., IIHMR, Delhi

Conference Host

Day 1 Dr. Anandhi Ramachandran, Associate Professor, IIHMR, Delhi (Conference Co-Organizer)
Day 2 Dr. Pankaj Talreja, Assistant Professor, IIHMR, Delhi (Conference Logistics Committee Member)
Day 3 Dr. Nikita Sabherwal, Associate Professor, IIHMR, Delhi (Conference Logistics Committee Member)
Day 4 Dr. Manish Priyadarshi, Associate Professor, IIHMR, Delhi (Conference Co-Organizer)