



Training on Air Quality and Health

DAPHNE II year Data Review

Sri Ramachandra Institute of Higher Education and Research (DU), Chennai, India
WHO Collaborating Center for Occupational and Environmental Health
ICMR Center for Advanced Research on Air Quality, Climate and Health
29th April to 4th May 2019

FINAL PROGRAMME

Day 1: Monday, 29 April 2019	
0800-0815	Welcome
0815-0830	Introduction to Workshop Objectives (Dr. Kalpana Balakrishnan, SRIHER) <ul style="list-style-type: none"> • Introduction • Purpose and Objectives • Agenda
0830-0915	Air Pollution Attributable Disease Burden in India – What do we know and where are the biggest gaps? (Dr. Kalpana Balakrishnan, SRIHER)
0915-1000	Use of Remote Sensing Methods in Air Pollution Exposure and Disease Burden Assessment (Dr. Sagnik Dey, IIT Delhi)
1000-1030	Break
1030-1115	Development and validation of the Air Speck Sensors: The UK Experience (Dr. DK Arvind, U. of Edinburgh)
1115-0100	Review of data collection protocols for AirSpeck and ReSpeck Sensors [SM/KAP/BAY/EKA/PAL]
0100- 0200	Lunch
0200 – 0330	Exposure (Sensor) Data Review Steered by Dr. DK Arvind, Darius Fischer and Andrew Bates (Skype) <ul style="list-style-type: none"> • Introduction to Airspeck sensors: Function, capability and troubleshoots • Data acquisition and processing • Backend architecture • Data transfer
0330 – 0345	Tea/Coffee
0345- 0500	Review of exposure data: AAP and MC (Dr. DK Arvind, U. of Edinburgh) <ul style="list-style-type: none"> • Sensor analytics • Data visualization • Co-location and Calibration campaigns
0500- 0600	Development of outline of Sensor Validation Manuscript

Day 2: Tuesday, 30 April 2019

0830 – 0915	Air Pollution and Adverse Pregnancy Outcomes: Results from Systematic Reviews (Dr. Kalpana Balakrishnan, SRIHER)
0915-1000	The Tamil Nadu Air Pollution and Health Effects Study: Lessons learnt and implications for DAPHNE (Dr. Thangavel Gurusamy, SRIHER)
1000-1030	Tea/Coffee
1030-1115	Use of IMNCI Methods in Field Epidemiological Studies (Dr. NK. Arora, INCLEN)
1115 – 0100	Review of MC Exposure and Health data collection in WP 2 led by Dr. Divya Nair <i>MC CRF data Tables: Health, Exposure and Biomarkers (EKA/AVI/SHA)</i>
01.00 – 02.00 hrs	Lunch
0200 – 0330	Planning for IMNCI Child assessment (Exposure and Health Data Collection) led by Dr. NK Arora, Dr. Divya Nair and Dr. Sankar Sambandam)
0330 – 0345	Tea/Coffee
0345 – 0500	Plans for MC cohort follow-up led by (Dr. Sankar Sambandam and Dr. Divya Nair) <ul style="list-style-type: none"> • Screening, Informed consent, Recruitment and Loss to follow up • Exposure Assessment, ANC Data collection, Birth Outcome and Biospecimen collection • Field plan for MAY-JUL
0500 – 0600	<i>Bio-marker Test Sample Collection (volunteers = 6; Dr. Naveen)</i>

Day 3: Wednesday, 1 May 2019

0830-0915	Asthma and Ambient Air Pollution: Results from recent Systematic Reviews (Dr. Pawan Tiwari, AIIMS)
0915-1030	Air pollution exposure assessment methods and instrumentation (Dr. Sankar Sambandam, SRIHER)
1030- 1100	Tea/Coffee
1100- 0100	Review of AAP Exposure and Health data collection in WP 1 and 1.2 led by Dr. Pawan Tiwari and Dr. Sankar Sambandam -AAP Health CRF data (SRK/Dr. Pawan Tiwari) -AAP Exposure CRF data (PAL/KAP/BAY]
01.00-2.00	LUNCH
0200 – 0330	Review of AAP Biomarker Data collection in WP1 and 1.2 led by Dr. Naveen
0330 – 0345	Tea/Coffee
0345 – 0500	Plans for AAP follow-up led by (Dr. Sankar Sambandam and Dr. Pawan Tiwari) <ul style="list-style-type: none"> • Screening, Informed consent, Recruitment and Loss to follow up • Exposure Assessment, ANC Data collection, Birth Outcome and Biospecimen collection • Field plan for MAY-JUL (SAM/PAL/KAP/BAY/SRK)


Prof. S.P. THYAGARAJAN
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 (Deemed to be University)
 (Declared under Section 3 of the UGC Act, 1956)
 Porur, Chennai - 600 116.

0500-0600	Discussion on potential for expansion of asthma cohort using alternative exposure assessment methodologies Dr. Sagnik Dey (IIT –Delhi), Dr. Pawan Tiwari (AIIMS)
Day 4: Thursday, May 2, 2019	
0900-1030	Biomarkers and its application in air pollution epidemiology-Strengths and limitations (Dr. Naveen Puttaswamy, SRIHER)
10.30-11.00	Tea/Coffee
11.00-0100	Biomarker Laboratory Training and Analyses (Naveen/Karthik/Sudhakar/Kokila) <ul style="list-style-type: none"> • SOP review (Naveen) • Urine creatinine, specific gravity and uric acid (Kokila)
01.00-02.00	LUNCH
0200-0500	Biomarker Laboratory Training and Analyses <ul style="list-style-type: none"> • IL6 and TSH immunoassay (Team A) (Karthik) • OH-PAH metabolites in urine (Team B) (Sudhakar)
Day 5 : Friday, May 3, 2019	
0830-0930	Multi-Variate Modeling for Air Pollution and Health Effects (Dr. Santu Ghosh, St. Johns Medical College)
0930-600	Biomarker Laboratory Training and Analyses <ul style="list-style-type: none"> • IL6 and TSH immunoassay (Team B) (Karthik) • OH-PAH metabolites in urine (Team A) (Sudhakar)
Day 6: Saturday, May 4, 2019	
1000-0100	Debriefing on WP 1/WP1.2/WP2 and presentation of Biomarker Analyses Reports
01.00 -02.00	Lunch
02.00- 245	Presentation on WP4 (Dr. Sachi Tripathi via Skype)
0245-0400	Next Steps : Field Plans; Team Organization; Data Analyses; 2019 Manuscripts
0400	Meeting Adjourn

Parallel Discussion On Exposure Modeling Approaches for Multi-City Studies on Air Pollution and Health Effects: Steered by Dr. Kalpana Balakrishnan, Dr. Santu Ghosh on Day 5.

Attendees

DAPHNE Research Staff	DAPHNE Investigators	SRIHER Faculty	Visitors
Divya Nair (DIV) Satish Madhav (SAM) Palak Balyan (PAL) Kriti Upadhyay (KUS) Shweta Rathi (SHE) Shraddha Kapoor (SRK) Bhavya Bhardwaj (BAY) Kapil Dev (KAP) Avinash Sharma (AVI) Ekta Chaudhary (EKA) Shani Thankachen (SHT)	Dr. Kalpana Balakrishnan Dr. Randeep Guleria Dr. Narendra K. Arora Dr. Kiran Guleria Dr. Sagnik Dey Dr. DK Arvind Dr. Karan Madan Dr. Pawan Tiwari Dr. Sankar Sambandam Dr. Naveen Puttaswamy	Dr. Gurusamy Thangavel Dr. Krishnendu Mukhopadhyay Dr. Karthik Sudhakar Rao Kokila	Dr. Gufran Beig Dr. Santu Ghosh Shahana Bano


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