UQ-IITD ACADEMY OF RESEARCH SEMINAR SERIES

Nurturing Minds Through Progressive Research: Unveiling the Future

UQ IITD Academy of Research

Child respiratory health burden associated with long term NO_2 exposure in India

Abstract: Nitrogen dioxide is associated with adverse respiratory health outcomes globally. This study aims to develop a national-scale NO_2 exposure dataset using land use regression modeling and to assess the burden of acute respiratory infections (ARI) among children <5 age (CU5) attributable to NO_2 in India. We used the NFHS-4 survey, which was conducted from 2015 to 2016. Further, we analyzed cross-sectional associations between annual exposures to NO2 and ARI in CU5 using a multivariate logistic regression model. We found for every 10 µg/m^3 increase in NO2, the odds of having ARI have increased by 1.26 times (1.19-1.34). These outcomes indicate that India needs specific NO_2 emission reduction policies, just like NCAP for PM2.5.

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22nd December 2023
10:30 – 11:30 AM IST
3:00 – 4:00 PM AEST

Venue: LHC 212, IIT Delhi
Or you can join online (Microsoft Teams):
https://shorturl.at/jksP8

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