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Abstract no. 169, : Air Pollution and Health; Exploring the Influence of Time-Activity Patterns on Exposure in Al Jubail Industrial City, Saudi Arabia

Mr. Salem AlBalawi¹, Prof. Tanja Pless-Mulloli¹, Dr. Susan Hodgson¹ and Dr. Anil Namdeo²

¹Institute of Health & Society, Medical School, Newcastle University, ²Transport Operations Research Group, Newcastle University, Newcastle upon Tyne, Tyne & Wear, UK. E-mail: salem.albalawi@ncl.ac.uk

Air pollution is a risk factor for adverse health effects, for example many studies have shown a link between air pollution exposure and hospital admissions for asthma. Many epidemiological studies have used outdoor concentrations to estimate human exposure. Personal exposure monitoring has become available over recent years thus allowing more precise exposure estimation covering both outdoor and indoor exposures but so far there is no such evidence from Saudi Arabia. This study will assess the link between exposure to air pollution and asthma hospital visits in the industrial city of Al Jubail and will identify factors that influence personal exposure.

Key words: air pollution, asthma, hospital admissions, time-activity, microenvironments.