

CHAPTER 31

MEDICAL SCIENCES PULMONARY MEDICINE

Doctoral Theses

01. SINGH (Kamal)
Indoor Air Pollution Exposure and Asthma in Children.
Supervisor: Prof. Raj Kumar
Th 26512

Abstract

It reviewed the outcome of present study and explores the scope for further research in the indoor environment and public health domain with more immunological parameters. This study showed that the prevalence of asthma was 10.4% in group A and 8.4% in group B and the concentration of particulate matters was found higher in households of asthmatic children where biomass fuel combustion, passive smoking, poor occupancy, poor ventilation, diesel chara-cutting machine, kerosene oil lamp and lack of exhaust fan in the kitchen & in the room. Even the LPG using household of asthmatic children also showed a higher concentration of particulate matter as compared to controls. This may be attributed to the presence of the above factors. This study highlights the importance of other factors like passive smoking, poor occupancy, poor ventilation, diesel chara-cutting machine, kerosene oil lamp, and lack of exhaust fan contribution to the LAP. The modifications in these factors might contribute to decrease IAP bur further follow-up study with large sample size is needed in this area. Simple measures like installation of exhaust fan, improving ventilation, avoid tobacco smoking & kerosene oil etc. may help to decrease IAP. So, it is very important to create awareness about the harmful effects of IAP in the rural population by involving schools, colleges, and public areas with the help of organizations (Government and Non-government).

Contents

1. Introduction 2. Review of literature 3. Material and methods 4. Results 5. Discussion 6. Summary 7. Conclusion, Limitations of and Future scope of work. References. Annexure and Publications