

# Occupational Exposure to Air Pollutants in Commercial Kitchen Area †

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**Abstract:** Indoor air quality (IAQ) is essential for human health is no doubt, because of the long exposure time a human has inside. The present study was conducted to evaluate the levels of SPM (suspended particulate matter), RSPM (repairable particulate matter), PM (particulate matter), SO<sub>2</sub> (sulfur dioxides), NO<sub>2</sub> (nitrogen dioxides), and PAHs (polycyclic aromatic hydrocarbons) in the commercial kitchen area. Cooking with these sources of fuel exposes people to toxic fumes which contain dangerous PM, CO (carbon monoxides), NO<sub>2</sub>, Formaldehyde, Benzene, 1,3 butadiene, PAHs, and other toxic pollutants from emissions due to burning fuel such as kerosene, coal, wood, stoves, cooking, gas-fired, appliances which leads to many health problems like reducing lung function, burn, respiratory issues, cancer skin diseases, etc. The study was conducted for eight months (December 2020-July 2021). As per results obtained, pollutants concentration was higher in winter than summer. However, the levels of all the pollutants were found under the permissible limit given by the WHO.

**Keywords:** indoor air quality; human health; toxic pollutants.

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## Conflicts of Interest

The authors declare no conflict of interest.