

worldwide. The process typically involves the use of biomass fuels such as firewood. The combustion of these fuels releases harmful pollutants, including polycyclic aromatic hydrocarbons (PAHs) and particulate matter (PM), which pose significant health risks, particularly affecting the respiratory system and eye health. While much research has focused on domestic exposure to biomass smoke from cooking, less attention has been given to occupational exposure in settings such as fish smoking.^{[1,2](#)}

The combustion of biomass fuels generates smoke that contains a complex mixture of gases and fine particles. These pollutants cause respiratory issues such as chronic obstructive pulmonary disease (COPD), asthma, and pneumonia.

Moreover, prolonged exposure to biomass smoke has been linked to eye conditions like cataracts, conjunctivitis, and other visual impairments.^{[1,2](#)} The eyes are

