Asthma and Smoking

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Editorial

Allergic diseases, such as asthma, are a world public health concern. Asthma, a common and chronic disease of the airways, and smoking are so common within the world’s population and also their prevalence has increased markedly over. Indeed smoking and asthma pandemic have huge implications for public health. Tobacco smoke is probably the most significant source of toxic chemical exposure. And we know that toxic chemical substance exposure increased formation of health problems related with smoking as asthma.

Asthma has a multifactorial cause involving both genetic and environmental factors. Results show that asthma can depend on exposure to an environmental factor, as environmental tobacco smoke (ETS). ETS is a potential risk factor for asthma, would improve the ability to map genes for asthma. Especially, ETS increases morbidity for children with asthma [1,2]. Studies indicate that more than 200,000 episodes of childhood asthma per year have been attributed to parental smoking in the United States [3]. Infants and children are more prone to the risks related to ETS exposure than adults. Children of smoking mothers have an increased risk of respiratory diseases during infancy [4]. Analyses results that maternal smoking of 0.5 packs per day was identified as an independent risk for children’s use of asthma medications and for asthma developing especially in the first year of life. As a result of maternal smoking is associated with higher rates of asthma, an increased likelihood of using asthma medications, and an earlier onset of the disease [5].

Children are effected by nicotine that is coming from indirect exposure to tobacco smoke. Residual nicotine that persists in high concentrations on the interior surfaces, including clothing that is a third-hand smoke. Ozone and related atmospheric oxidants react with nicotine smoke or smoke coming from the second-hand smoke, giving the smallest particles with high risk of asthma. Also ozone reacts with cigarette smoke or second-hand smoke to form ultraviolet particles with a high asthma hazard index [4,6]. In addition, tobacco smoking may be associated with an increased incidence rate of adult-onset asthma, especially among women [7].

The importance of tobacco smoking for adult onset asthma is controversial. Some studies have failed to show an increased risk among smokers [1,8,9] while others have not found an increased risk [10] some of them found an increased risk mainly among infants and children [2,5]. In addition some of them indicate if environmental tobacco smoke is considered a co-factor provoking wheezing attacks, rather than a cause of the underlying asthmatic tendency [6].

Researchers indicate that adults with asthma do not appear to selectively avoid cigarette smoking. Specific smoking prevention and cessation efforts should be targeted to adults with asthma.

Last, but not least, continued vigorous efforts are required to discourage all women and girls from taking up smoking and to encourage those who smoke to quit. This is particularly pertinent for asthmatic women who are pregnant or planning a pregnancy.

References