

ABSTRACT

Smoke is the one of society habits that be able to cause many disease, which can harm human health, as well as the smoker or the secondhand smoke. In order to young people or beginner who began smoke for the first time, generally they choosed mild cigarette and white cigarette (Kansas). The differences between them are nicotine's, CO, NO₂ and hydrocarbon concentration. Mild cigarette is a kind of the light cigarette because the substance concentration is lower than white cigarette.

The aim of the research is to know about aortic microscopically image of mice (*Rattus norvegicus*) after the treatment of mild and white cigarette inhalation. The subjects consisted of 15 male mice, 3 months old with body weight around 200-300 gram, divided in to 3 groups of 5 mice each. The first groups as control, the second groups was given mild cigarette inhalation twice a day during 40 days. The third groups was given white cigarette inhalation twice a day during 40 days.

The result show there is no changed about aortic microscopical structure of mice. Both the second groups and the third groups are the same with the first group.

The conclusion from this research that mild and white cigarettes inhalation can not cause aortic microscopical structure of mice change during 40 days.

Key words: Mice – inhalation – aortic - cigarettes