Active Smoking and Impacts on Male Fertility in Humans

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Abstract

Our work aims to study the impact of active smoking on some parameters indicative of male fertility in humans. The experiment involved a cohort of 20 men against 20 men smokers non-smokers (controls) who came to take spermogramme, some of them were volunteers. The volume of semen, concentration, mobility, speed, vitality and sperm abnormalities, and the level of testosterone were studied in two groups. The results show that there is a non-significant decrease in the volume of semen at smokers compared to non smokers (controls), a significant decrease (p <0.001) in the concentration, mobility, speed, vitality sperm in the group of smokers compared with controls. Smokers are also a significant increase in the level of sperm morphological abnormalities and the level of testosterone was a significant decrease (p <0.01) in subjects smoking compared with controls.

Keywords: Smoking, Nicotine, Fertility, Sperm, Human, Health