

عنوان مقاله:

Evaluation of the Protective Role of Marigold Leaf Extract Ethanol on FSH Levels in Male Laboratory Mice Exposed to Cigarette Smoke

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نویسندگان:

Rahma Suci Nabila - Master Student in the Reproductive Health Study Program, Faculty of Medicine, Airlangga University; Jalan Mayjen, Prof. Dr. Moestopo no. ۴۷ Surabaya, Indonesia

Ninik Darsini - Department of Medical Biology, Faculty of Medicine, Airlangga University; Jalan Mayjen, Prof. Dr. Moestopo no. ۴۷ Surabaya, Indonesia

Agustinus Agustinus - Department of Medical Biology, Faculty of Medicine, Airlangga University; Jalan Mayjen, Prof. Dr. Moestopo no. ۴۷ Surabaya, Indonesia

خلاصه مقاله:

Cigarette smoke produces particles such as nicotine, tar, and cadmium which can damage male germ cells and interfere with the hypothalamus, pituitary, and testicles which cause spermatogenesis disorders. The study aimed to analyze the differences in FSH levels in each group of mice (*Mus musculus*) exposed to cigarette smoke by administering ethanol extract from marigold leaves (*Tegetes erecta*). The laboratory experimental research method used a Randomized post-test-only control group design with exposure to one cigarette smoke ۱ cigarette per day and administration of ethanol extract of marigold leaves (*Tegetes erecta*). The grouping of research samples used simple random sampling in ۵ groups with experimental mice (*Mus Musculus*) males aged ۸-۱۲ weeks and weighing ۲۰-۲۵ grams which were divided into ۵ groups, namely K(-) (placebo), K(+) (smoked cigarettes and placebo), P₁ (cigarette smoke and marigold leaf extract dose ۰.۲۵ g/kg-BW), P₂ (smoked cigarettes and marigold leaf extract dose ۰.۵۰ g/kg-BW), and P₃ (smoked cigarettes and marigold leaf extract dose ۱, ۰ g/kg-BW). FSH levels were examined using ELISA. The results of the analysis of examining FSH levels showed an average of K(-): ۰.۸۰ mIU/ml, K(+): ۰.۶۰ mIU/ml, P₁: ۰.۵۴ mIU/ml (dose ۰.۲۵ g/kg-BW), P₂: ۰.۶۰ mIU/ml (dose of ۰.۵۰ g/kg-BW), and P₃: ۰.۵۵ mIU/ml (dose of ۱.۰ g/kg-BW) with p-value ≤ ۰.۰۵. In conclusion, there was a significant effect of the administration of ethanol extract of marigold leaves (*Tegetes erecta*) on the FSH levels of mice exposed to cigarette smoke.

کلمات کلیدی:

Tegetes erecta, Cigarette Smoke, FSH

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