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2-METHOXYETHANOL EXPOSURE AFFECTS PROTEIN PROFILE OF TESTICULAR SPERM MEMBRANE IN MICE (Mus musculus)

Abstract

The 2-Methoxyethanol (2-ME) is one of the toxic agents which affect on male reproduction from phthalate ester. The 2-ME is used for making resins, lacquers and paint in industrial solvent and may enter in the body through skin, by inhalation or per oral. The aim of this study was to determine the effect of 2-ME in varied doses toward sperm membrane protein of mice testis. This study used male BALB/C strain mice (Mus musculus), aged 4-5 weeks with 24-30 g weight. Based on the types of treatment, the subjects were divided into 3 groups. One control group was injected with physiological saline solution and 2 treatment groups were injected with 2-ME dose respectively 50 and 100 mg/kg. All groups were injected daily for 12 days by subcutaneous. Spermatozoa membrane protein was taken from testicular spermatozoa. The protein profiles of spermatozoa membrane were analyzed by sodium dodecyl sulphate-polyacrilamide gel electrophoresis (SDS-PAGE 15%) techniques. Results of this research showed the existence of differences between profile of spermatozoa membrane protein in control group and treatment group. In control and treatment group receiving a dose of 50 mg/kg body weight there was around 15 protein bands with variation of the molecular weight between 93.3-7.4 kDa. Whereas, in treatment group receiving dose of 100 mg/kg body weight there was 14 protein bands with 60 kDa protein not expression. Conclusion of this research was that the exposure of 2-ME can affect the protein profile.

Keyword : 2-Methoxyethanol, protein, profile, testicular, spermatozoa, ,

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