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Effect of Aluminum-Containing Antacid on Sperm Parameters And testicular Structure in Male Rats

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Abstract: Aluminum compounds are used in many pharmaceuticals. Antacid as aluminum hydroxide [Al (OH)₃] was tested for its effects on the sperm parameters and testis of rats at dosage of 18 mg/kg/day. Mature male rats were treated orally for 30 days. The sperm parameters in epididymis were counted and testes were examined. Results obtained showed that Al(OH)₃ caused significant (P < 0.05) decrease in sperm concentration, sperm motility percent and sperm viability percent compared to the control group, while abnormal sperm morphology percent were increased. In addition, the exposure of rats to Al(OH)₃ caused obvious histopathological changes in the testes. It can be concluded that high antacid intake for long period can be effective on reproductive system.

Keywords: Antacid, Al(OH)₃, Sperm parameters, Epididymis, Testis, Rat.

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