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The study of Cefixime antibiotic effects on testis tissue and spermatogenesis in wistar rat

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Introduction:

Cefixime is one of the cephalosporins antibiotics with wide usage in infection and bacterial diseases such respiratory system, skin, bone, joint and urinary infections. The target of this study is checking the effects of cefixime in sertoli cells in rat.

Method:

In this study used 40 male wistar rats which grouped in 4. The control group was non treatment and treatment groups fed with 200 ml, 400 ml and 600 ml of cefixime. This stage must be 60 days long. After the examination procedure, samples of testis tissue have taken and make tissue slices for Histopathologic study.

Result:

With increasing doses of drug showed destructivity of testis tissue and the weight of testis decrease in treatment group (p>0.05), also the sperm duct and sertoli cells destructed.

Conclusions:

Cefixime can cause hypo spermatogenesis in male rat and thereinafter may cause histopathological effects on testis tissue and infertility such as human cases.

Key word:

Cefixime, testis, rat