

## EFEK AMFETAMIN TERHADAP ULTRASTRUKTUR SEL SPERMATOGENETIK TIKUS

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### ABSTRACT

*The research was conducted to evaluate the effect of amphetamine as psychostimulan drug on ultrastructure spermatogenic cells of male rats (*Rattus norvegicus L.*). Ultrastructure spermatogenic cells described from six male rats of Wistar stain. They were divided in to 2 groups (control and treatment groups). Four mg/kg/days amphetamine were given sub-cutane injection. In control to injection with physiologic saline. The last of the treatment the rat were killed after 100 days the amphetamine injection. The testis were released into fixative solution. Ultrastructure morphologic analysis of the testis were evaluate of qualitative to assess the effect of amphetamine on spermatogenic cells. Observation of spermatogenic cells (Spermatogonia, Spermatocyte, and Spermatid cells) were done under the electron microscope. The result of this experiment showed different morphologically from the amphetamine-treated group and their respective control. In the treatment groups, Spermatogonia, Spermatocyte, and Spermatid cells less endoplasmic reticulum than normal spermatogenic cells (control). More vacuolisation in membrane line of Spermatogonium cells, and in cytoplasm of Spermatocyte, and Spermatid cells than normal spermatogenic cells (control).*

**Key words :** amphetamine, spermatogenic, vacuolisation