

EFFECTS OF BITTER-MELON EXTRACT (*Momordica charantia, L*) ON THE DIAMETER OF SEMINIFEROUS TUBULES AND THE QUANTITY OF MYOID CELLS IN MALE MICE (*Mus musculus*).

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ABSTRACT

This study was aimed to evaluating effects of extract of bitter-melon (*Momordica charantia, L*) on the diameter of seminiferous tubules and the quantity of myoid cells in male mice (*Mus musculus*). The extract bitter-melon (*Momordica charantia, L*) in this study used ethanolic extract. Twenty male mice (*Mus musculus*) were adapted for one week and divided into four groups using simple random sample system; P0 (control) was given solvent of CMC Na 0,5%, P1 was given 23 mg/kg body weight of bitter-melon extract (*Momordica charantia, L*), P2 was given 35 mg/kg body weight of bitter-melon extract (*Momordica charantia, L*), P3 was given 45,5 mg/kg body weight of bitter-melon extract (*Momordica charantia, L*). The treatment were administered per-oral for forty consecutive days. The 41st day, mice (*Mus musculus*) were terminated by euthanasia using chloroform. The diameter of seminiferous tubules was observed microscopically at 100x magnification and assisted by Image Raster. The quantity of myoid cells were observed microscopically at 400x magnification. Data were analyzed by Analysis of Variance Test and continued by Duncan's Multiple Range Test. The result showed that bitter-melon extract (*Momordica charantia L*) could decrease average the diameter of seminiferous tubules and could decrease the quantity of myoid cells significantly.

Keywords: *Momordica charantia L*, Bitter-melon Extract, Seminiferous tubules, Myoid cells.