

**THE POTENTIAL OF ACTIVATED CHARCOAL TO
SPERMATOOZA MEMBRANE INTEGRITY AND
HISTOPATHOLOGIC APPEARANCE OF THE
SEMINIFEROUS TUBULES IN THE TESTIS OF MALE MICE
(*Mus musculus*) EXPOSED BY *Fusarium graminearum* FUNGUS**

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ABSTRACT

This research aimed to determine the potential of activated charcoal to the spermatozoa membrane integrity and histopathologic appearance of the seminiferous tubules in the testis of mice (*Mus musculus*) that were exposed by *F. graminearum* fungus. This study is a laboratory experimental study, with 20 mice (*Mus musculus*) males divided into 1 control group and 4 treatment groups. The control group were not exposed by *F. graminearum* spore nor activated charcoal, P0 were exposed by *F. graminearum* spore. P1 were exposed by *F. graminearum* spore and treated with 0,5 mg activated charcoal, P2 were exposed by *F. graminearum* spore and treated with 1 mg activated charcoal, and P3 were exposed by *F. graminearum* spore and treated with 2 mg activated charcoal, all procedures given by per oral each day. The results indicated that activated charcoal can affecting epididymal spermatozoa of mice (*Mus musculus*) which has been exposed by *F. graminearum* fungus and maintain the histopathological appearance of the seminiferous tubules of male mice (*Mus musculus*) by absorption processes in gastrointestinal level.

Key words: *Fusarium graminearum*, activated charcoal, HOS Test, seminiferous tubules.