

## MOTILITAS SPERMATOZOA MENCIT (*Mus musculus*) SETELAH PEMBERIAN POLISAKARIDA KRESTIN DARI EKSTRAK JAMUR *Coriolus versicolor*

### Abstrak :

*This study aimed to know the motility speed of sperm mice (*Mus musculus*) after using polysaccharide cretine of *Coriolus versicolor* mushroom extract.*

*Twenty four male mice aged 8-10 week, 25-30 g weight were*

*used as experimental animals which were divided into four groups (1 controlled group and 3 treatment groups) which consisted of 6 animals for each. The first group was the controlled group (P0) that aquades 0,1 mL was daily put by gavage for 62 days. On the other hand, the treatment groups (P1, P2, and P3) were treated by giving polysaccharide cretine derived from*

**Coriolus versicolor**

*mushroom extract with 3 different doses, such as: 1,5; 3,0; dan 6,0 mg/kg BB for 62 days. The sperms were collected from epididymis cauda. The parameters of a given sperm quality were motility speed.*

*Further, the data were analyzed by employing one-way ANOVA. This study resulted that the sperm motility speed of controlled group was higher; that was, (5,487 &micro;m/second) compared to the three treated groups; they were in order: 4,768; 4,345; and 4,197 &micro;m/second. The conclusion could be drawn that giving polysaccharide cretine of*

**Coriolus versicolor* mushroom extract could decrease motility speed as well.*

### Keyword :

### Daftar Pustaka :

*Aryosetyo, L. Hubungan antara Jumlah Leukosit dengan Morfologi Spemratozoa pada Pasien Infertilitas di rumah sakit Dokter Kriadi Fakultas Kedokteran 2009 -*

*Cui, J. dan Chisti, Y. Polysaccharopeptides of *Coriolus versicolor*: physiological activity, uses, and production J. biotechnology advances, New Zaeland: Science Direct 2003 -*

*Fisher, M., and Yang, L.X. Anticancer Effects and Mechanism of Polysaccharide-K (PSK): Implication of Cancer Immunotherapy J. Anticancer Research, 22 (3): 1737-54 2002 -*

*Hayati, A. Kajian Kualitas dan Protein Membran Spermatozoa Tikus (*Rattus norvegicus*) Akibat Pemaparan 2-Methoxyethanol Disertasi, Universitas Gadjah Mada, 2007 Yogyakarta*

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