

PURWOCENG ROOTS ETHANOL EXTRACT MAKE NO IMPROVEMENT IN LEYDIG CELLS ACTIVITY TO MALE WHITE RATS (*Rattus norvegicus*) EXPOSED BY PARADOXICAL SLEEP DEPRIVATION (PSD) STRESS MODELS

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Abstract	To observe the improvement of Leydig cell activity after the administrations of Purwoceng roots ethanol extract in white male rats which is exposed by PSD stress model. Experimental research, pre and post with control group study design. White male rats (<i>Rattus norvegicus</i>) Wistar strain animals were divided into six groups, five rats each group, there are negative control group (KI), PSD control group without sleep recovery (KII), PSD control group with sleep recovery (KIII), and also PSD group with Purwoceng roots ethanol extract with the dose of 16,65-16,75 mg, 33,30-33,75 mg and also 50,25 mg/200 gramBW/day (KIV, KV, KVI). PSD stress model exposure was administrated in 96 hours, continued by sleep recovery and intervention method in the next seven days after it and then leydig cell number and serum testosterone level r is examined. Statistical analysis shown that in leydig cell number study (p value = 0,589) and serum testosterone level study (p value = 0,572) so the result is not significant. Administration of Purwoceng roots ethanol extract make no significant effect in leydig cell number and serum testosterone level (p>0,05) so there is no improvement of Leydig cell activity in white male rats which is induced by PSD stress model.
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