## <u>Differences in body weight post-induction sleep deprivation and sleep recovery in white male rats (Rattus norvegicus)</u>

Title	Differences in body weight post-induction sleep deprivation and sleep recovery in white male rats (Rattus norvegicus)
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Abstract	Sleep Deprivation (SD) reduced leptin levels, increased ghrelin levels, and it caused were multifactorial, so research was conducted on experimental animals to prove whether SD was the single factor causing changes in body weight (BW). The study's objectives were to know the difference in BW after induction of paradoxical and total SD and to observe the improvement in sleep recovery (SR). This study was true experimental with posttest only, and a control group design used 25 male albino rats randomly shared into five groups; control, PSD, TSD, PSD+SR, dan TSD+SR onÃ, August – September 2021. The weight is measured by OHAUSÃ,®Ã, balance. Statistical analysis used by One-way ANOVA and paired t-test denoted no significant difference after SD (p=0,277) and SR (p=0,297), a significant difference in the TSD+SR and TSD between before (p=0,014), after SDÃ, (p=0,008), and after SR (p=0,034). Sleep deprivation increases BW through raised ghrelin, and SR Ã, reverses the effects by increasing the antioxidant. Results must be confirmed by measuring ghrelin levels and leptin orexin type 1 and 2 receptors. In conclusion, that was a significant difference in the TSD+SR and TSDÃ, between pre and post-sleep deprivation and the TSD+SRÃ, between pre and post-SR.Ã, Ã, Ã,Â
Publisher Name	Department of Nutrition at the Health Polytechnic of Aceh, Ministry of Health
Publish Date	2023-06-04
Publish Year	2023
Doi	DOI: 10.30867/action.v8i2.930
Citation	
Source	AcTion: Aceh Nutrition Journal
Source Issue	Vol 8, No 2 (2023): June
Source Page	219-225
Url	https://ejournal.poltekkesaceh.ac.id/index.php/an/article/view/930/407
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