Ameliorative effect of 50% ethanol extract of moringa leaves *(Moringa oleifera* Lam.) on lead-induced oxidative stress in the liver of male wistar rat model

Publons ID	(not set)
Wos ID	WOS:000895816500002
Doi	10.15562/bmj.v11i3.3728
Title	Ameliorative effect of 50% ethanol extract of moringa leaves *(Moringa oleifera* Lam.) on lead-induced oxidative stress in the liver of male wistar rat model
First Author	
Last Author	
Authors	Laksana, ASD; Kusumasita, L; Faniyah, F;
Publish Date	2022
Journal Name	BALI MEDICAL JOURNAL
Citation	2
Abstract	Purpose: This study aimed to examine the ameliorative effect of 50% ethanol extract of Moringa leaves on lead-induced oxidative stress in the liver of male Wistar rat model.Experimental Animal and methods: In this study, adult male Wistar rats were divided into 4 groups, consists of one control group (Kn) and three experimental groups (P1, P2 and P3). All group received Pb-acetate 750 mg/kgBW/day for 7 days. After that, control groups received 1 ml aqua for 14 days, and 3 experimental groups received 1 ml volume of 250, 500 and 1.000 mg/kgBW/day of 50% ethanol extract of moringa leaves orally for 14 days, respectively. Methods measured liver level of GSH, GPx, SOD, CAT and MDA describes by Hernayanti and Simanjuntak (2018) and Ratnaningtyas et al (2022). GSH was measured by a method described by El Shater et al (2016). Data were analyzed with ANOVA and Tukey HSD post hoc test.Results: Study results demonstrated that there was significant elevation of liver level of GSH, GPx, SOD, and CAT ($p<0,05$), and significant decreased of MDA levels ($p<0,05$) in all experimental groups. Significant amelioration of oxidative stress ($p<0,05$) were found in groups received 250, 500 and 1.000 mg/kgBW/day orally for 14 days.Conclusion: In conclusion, 50% ethanol extract of moringa leaves doses 250, 500 and 1.000 mg/kgBW/day orally for 14 days ameliorates lead-induced oxidative stress in rat liver. The most effective dose was 1.000 mg/kgBB/day orally for 14 days.
Publish Type	Journal
Publish Year	2022
Page Begin	1887
Page End	1891
Issn	2089-1180
Eissn	2302-2914
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000895816500002
Author	Dr Dr AGUNG SAPRASETYA DWI LAKSANA, M.Sc.