THE EFFECT OF THE ROOT OF

SEREH (Cympobogon nardus) INFUSION BLOOD POTASSIUM PRODUCTION AND URINE PRODUCTION IN MALE WHITE RATS (WISTAR STRAIN Rattus norvegicus). A LABORATORY EXPERIMENTAL STUDY

Submission date: 24-Aug-2020 10:28/Jy/Cicilia W ahju Djajanti Submission ID: 1373206971 File name: ABSTRACT_tesis_cicil_pdf.pdf (43.73K) Word count: 428 Character count: 2202

ABSTRACT

THE EFFECT OF THE RODT OF .SOUTH {G ympobogon nardus} INFUSION BLOOD POTASSIUM PRODUCTION AND URINE PRODUCTION IN MALE WHITE RATS (WISTAR STRAIN Rattus norvegicus). A LABORATORY EXPERIMENTAL STUDY

Cicilia Wah,ju D,ja,janti

The infusion of the rr>nt of *.srrrh 6'vmyohogon nurd s*), a traditional plant, has been known to have a function as alternative diuretics. However, it has not been proven experimentally. The objective of this study was to prove the effect of *.trrr/i* root infusion on the increa f Prince production and blood potassium in rats.

This study used separate sample pre-test post-test control group design, involving 28 randornl y-selected male Rattus norvegicus, aged 2-3 months, with bod yweight of 150-200 grains. Before treatment, the rats were subjected to btxl yweight measurement and randomly divided into four groups, each comprising 7 rats. Group I was pre-test grou p, which received no treatment. Group 2 served as negative control group, receiving 2 ml distilled water per oral. Group 3 was positive control group, receiving distilled water and lasix of 0.72 rug. Group 4 was the group receiving 20°/c distilled water and .trrr/i root.

Results showed that the infusion of *.sereh* [*C'vmpohog* \odot *n* arm.t) root was able to increase rats Urinee production. In general, the result of anal ysis showed that pre-test group (KO) had Urinee production of 4.885 + 2.832 I cc/24 hours, blood potassium 4.0857 + 0.3185 Mmol/L, and kaliuresis 54.1714 + 21.4948. Mmol/L. Distilled water group (K I) had U rinee production of 7.7285 + 3.05024 cc/24 hours, blood potassium 4.8286 + 0.3352 Mmol/L, and kaliuresis 318.8286 + 10 I .8018 M mol/L. The group receiving distilled water and lasix of 0.72 mg/kg bw (K2) had Urinee production of 7.685 + 3.8293 cc/24 hours, blood potassium 4.357 I + 0.3599, Mmol/L and kaliuresis 315.757 I + I 10.6760 Mmol/L Group receiving distilled water and the infusion of 20"/c .trrr/i root (K3) had U rinee production of 8.5000 + I .035 cc/24 hours, blood potassium of 4.7857 + 0.3848 Mmol/L, and kaliuresis 243.1429 + 70.7855 Mmol/L. It was apparent that the infusion *of .srrrh* root was able to increase U rinee production, blood potassium, and kaliuresis.

Result showed eat there are not significant difference (p > 0.05) of U rinee production, blood potassium was significant difference (p < 0.05) and kaliuresis was not significant difference. The result of LSD test revealed that the infusion of sereh was not able to increase Urinee production and increase blood potassium and kaliuresis.

Keywords: re nt of.tereh *€'vmhopogon* norm.t), increased U rinee production, blood potassium, kaliuresis

THE EFFECT OF THE ROOT OF SEREH (Cympobogon nardus) INFUSION BLOOD POTASSIUM PRODUCTION AND URINE PRODUCTION IN MALE WHITE RATS (WISTAR STRAIN Rattus norvegicus). A LABORATORY EXPERIMENTAL STUDY

ORIGINALITY REPORT

SIMILA	% ARITY INDEX	5% INTERNET SOURCES	2% PUBLICATIONS	0% STUDENT PAPERS
PRIMAR	Y SOURCES			
1	journal.ur	nes.ac.id		3%
2	adln.lib.ur	nair.ac.id		2%
2	Shuren Ji, Limin Gao, Wei Chen, Jing Su, Yixin Shen. "Urea application enhances cadmium uptake and accumulation in Italian ryegrass", Environmental Science and Pollution Research, 2020 Publication			

Exclude quotes	Off	Exclude matches	Off
Exclude bibliography	Off		