THE EFFECT OF LOW PROTEIN DIET ON THE mRNA EXPRESSIONS OF SUPEROXIDE DISMUTASE-1 (SOD-1) AND
CATALASE IN MICE KIDNEY WITH UNILATERAL URETERAL OBSTRUCTION
SETYA ATSIL ALLAM, dr. Junaedy Yunus, M.Sc, Ph.D.; dr. Arta Farmawati, Ph.D.
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APPENDIX

MEDICAL AND HEALTH RESEARCH ETHICS COMMITTEE (MHREC)
FACULTY OF MEDICINE GADJAH MADA UNIVERSITY
– DR. SARDJITO GENERAL HOSPITAL

ETHICS COMMITTEE APPROVAL

Ref : KE/FK/1144 /EC/2018

Title of the Research Protocol	:	Pengaruh Diet Rendah Protein Maternal pada Keadaai Cedera lskemikRepefusi Ginjal: Eksplorasi Mediator Inflamasi, Cedera Oksidatifdan Nitrosatif, dan Kelainan Vaskular
Documents Approved	:	Study Protocol versi 03 2018
Principle Investigator	:	dr. Junaedy Yunus. M.Sc., Ph.D
Participating Investigator(s)	:	1. Fadila Dyah Trie Utami 2. Annisa Fajriani 3. Ummu Kalsum Firdaus 4. Setya Atsil Allam
Date of Approval	:	2 5 OCT 2018 (Valid for one year beginning from the date of approval)
Institution(s)/place(s) of research	:	1. Departemen Anatomi FKKMK UGM 2. Departemen Patologi Anatomi FKKMK UGM 3. Laboratorium Riset Terpadu FKKMK UGM 4. Departemen Biokimia FKKMK UGM

The Medical and Health Research Ethics Committee (MHREC) states that the above protocol meets the ethical principle outlined in the Declaration of Helsinki 2013 and therefore can be carried out.

The Medical and Health Research Ethics Committee (MHREC) has the right to monitor the research activities at any time.

The investigator(s) is/are obliged to submit:
- ☐ Progress report as a continuing review : Annually
- ☐ Report of any serious adverse events (SAE)
- ☑ Final report upon the completion of the study

Prof. dr. Madarina Julia, Sp.A(K)., MPH., Ph.D
Chairperson

dr. Shinta Prawitasari, M.Kes., Sp.OG(K)
Secretary

Attachments:
- ☐ Continuing review submission form (AF 4.3.01-014.2013-03)
- ☐ Serious adverse events (SAE) report form (AF 6.1.01- 019.2013-03)

Recognized by Forum for Ethical Review Committees in Asia and the Western Pacific (FERCAP)
23-Oct-18

Scanned with CamScanner

Appendix 1. Ethical Clearance Approval Letter

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Tests of Normality

	GROUPS	Kolmogorov-Smirnov[a] Statistic	df	Sig.	Shapiro-Wilk Statistic	df	Sig.
CREATININE	SO	.280	5	.200*	.781	5	.056
	UUO	.269	5	.200*	.819	5	.115
	10%	.327	5	.087	.728	5	.018
	12%	.258	5	.200*	.925	5	.563

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Appendix 2. Test of Normality of creatinine serum level

Test Statistics[a,b]

	CREATININE
Kruskal-Wallis H	10.253
df	3
Asymp. Sig.	.017

a. Kruskal Wallis Test

b. Grouping Variable: GROUPS

Appendix 3. Kruskal Wallis test of Creatinine Serum Level

Test Statistics[a]

	CREATININE
Mann-Whitney U	2.000
Wilcoxon W	17.000
Z	-2.200
Asymp. Sig. (2-tailed)	.028
Exact Sig. [2*(1-tailed Sig.)]	.032[b]

a. Grouping Variable: GROUPS

b. Not corrected for ties.

Appendix 4. Post-hoc Mann-Whitney U test of creatinine serum level of SO vs UUO Groups.

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Test Statistics[a]

	CREATININE
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.627
Asymp. Sig. (2-tailed)	.009
Exact Sig. [2*(1-tailed Sig.)]	.008[b]

a. Grouping Variable: GROUPS

b. Not corrected for ties.

Appendix 5. Post-hoc Mann-Whitney U test of creatinine serum level of SO vs UUO+10% Groups.

Test Statistics[a]

	CREATININE
Mann-Whitney U	.000
Wilcoxon W	15.000
Z	-2.619
Asymp. Sig. (2-tailed)	.009
Exact Sig. [2*(1-tailed Sig.)]	.008[b]

a. Grouping Variable: GROUPS

b. Not corrected for ties.

Appendix 6. Post-hoc Mann-Whitney U test of creatinine serum level of SO vs UUO+12% Groups.

Test Statistics[a]

	CREATININE
Mann-Whitney U	9.000
Wilcoxon W	24.000
Z	-.738
Asymp. Sig. (2-tailed)	.461
Exact Sig. [2*(1-tailed Sig.)]	.548[b]

a. Grouping Variable: GROUPS

b. Not corrected for ties.

Appendix 7. Post-hoc Mann-Whitney U test of creatinine serum level of UUO vs UUO+10% Groups.

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Test Statistics[a]

	CREATININE
Mann-Whitney U	9.500
Wilcoxon W	24.500
Z	-.632
Asymp. Sig. (2-tailed)	.527
Exact Sig. [2*(1-tailed Sig.)]	.548[b]

a. Grouping Variable: GROUPS

b. Not corrected for ties.

Appendix 8. Post-hoc Mann-Whitney U test of creatinine serum level of UUO vs UUO+12% Groups.

Test Statistics[a]

	CREATININE
Mann-Whitney U	10.000
Wilcoxon W	25.000
Z	-.527
Asymp. Sig. (2-tailed)	.598
Exact Sig. [2*(1-tailed Sig.)]	.690[b]

a. Grouping Variable: GROUPS

b. Not corrected for ties.

Appendix 9. Post-hoc Mann-Whitney U test of creatinine serum level of UUO+10% vs UUO+12% Groups.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	GROUPS	Statistic	Df	Sig.	Statistic	df	Sig.
SOD-1	SO	.213	5	.200*	.916	5	.502
	UUO	.253	5	.200*	.858	5	.223
	10%	.263	4	.	.866	4	.282
	12%	.369	3	.	.789	3	.088

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Appendix 10. Test of normality of Superoxide Dismutase expression.

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ANOVA

SOD-1

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.055	3	.018	.776	.528
Within Groups	.305	13	.023		
Total	.360	16			

Appendix 11. One way- ANOVA test of Superoxide Dismutase expression.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	GROUPS	Statistic	df	Sig.	Statistic	df	Sig.
CATALASE	SO	.221	5	.200*	.969	5	.868
	UUO	.181	5	.200*	.977	5	.917
	10%	.302	4	.	.829	4	.164
	12%	.377	3	.	.770	3	.045

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Appendix 12. Test of normality Catalase expression.

Test Statistics[a,b]

	CATALASE
Kruskal-Wallis H	5.084
df	3
Asymp. Sig.	.166

a. Kruskal Wallis Test

b. Grouping Variable: GROUPS

Appendix 13. Kruskal-Wallis H test of Catalase expression.

Test Statistics[a]

	CATALASE
Mann-Whitney U	2.000
Wilcoxon W	8.000
Z	-1.640
Asymp. Sig. (2-tailed)	.101
Exact Sig. [2*(1-tailed Sig.)]	.143[b]

a. Grouping Variable: GROUPS

b. Not corrected for ties.

Appendix 14. Mann-Whitney U test of Catalase expression.