

## DAFTAR PUSTAKA

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# LAMPIRAN

## HASIL UJI STATISTIK

### UNTUK KELOMPOK KASUS ( 18 ORANG)

#### Descriptive Statistics

|                    | N  | Minimum | Maximum | Mean     | Std. Deviation |
|--------------------|----|---------|---------|----------|----------------|
| Usia               | 18 | 24.00   | 66.00   | 44.8889  | 13.45095       |
| ICAM-1 Pre         | 15 | 13.96   | 233.64  | 52.6193  | 70.56488       |
| ICAM-1 Post        | 15 | 14.07   | 238.46  | 51.7307  | 64.77601       |
| VCAMPRE            | 14 | 46.59   | 249.68  | 109.3000 | 61.19463       |
| VCAMPOST           | 15 | 56.35   | 429.58  | 117.3593 | 90.86707       |
| GFR 1              | 18 | 12      | 162     | 70.22    | 31.624         |
| GFR 4              | 18 | 12      | 162     | 68.89    | 33.587         |
| UREUM PRE          | 18 | 36      | 162     | 74.17    | 31.341         |
| UREUM POST         | 18 | 11      | 189     | 71.83    | 42.497         |
| KREATININ PRE      | 18 | 3.70    | 29.40   | 9.0222   | 5.72400        |
| KREATININ POST     | 18 | 3.70    | 29.40   | 9.4200   | 6.01202        |
| Valid N (listwise) | 14 |         |         |          |                |

#### Descriptive Statistics

|                    | N  | Minimum | Maximum | Mean    | Std. Deviation |
|--------------------|----|---------|---------|---------|----------------|
| Sistol mgg1        | 18 | 110     | 190     | 141.67  | 20.934         |
| Sistol mgg4        | 18 | 100     | 200     | 138.89  | 25.179         |
| Distol mgg1        | 18 | 70      | 100     | 81.67   | 6.183          |
| Diastol mgg4       | 18 | 60      | 100     | 80.56   | 8.024          |
| Berat badan mgg1   | 18 | 40.50   | 70.50   | 55.2778 | 8.97254        |
| Berat badan mgg4   | 18 | 41.00   | 70.50   | 55.5278 | 9.08695        |
| Valid N (listwise) | 18 |         |         |         |                |

#### Descriptive Statistics

|                              | N  | Minimum | Maximum | Mean    | Std. Deviation |
|------------------------------|----|---------|---------|---------|----------------|
| Pre-test Blood Flow (Pre)    | 18 | 4.78    | 19.94   | 10.5039 | 4.20055        |
| Pre-test Blood Flow (Post)   | 18 | 4.32    | 18.34   | 10.5122 | 4.37116        |
| Intervensi Blood Flow (Pre)  | 18 | 6.11    | 23.02   | 12.4433 | 4.84158        |
| Intervensi Blood Flow (Post) | 18 | 6.28    | 22.07   | 11.6772 | 4.74681        |
| Post-test Blood Flow (Pre)   | 18 | 5.88    | 42.19   | 13.3106 | 8.50700        |
| Post-test Blood Flow (Post)  | 18 | 5.13    | 37.37   | 12.3822 | 7.43468        |
| Valid N (listwise)           | 18 |         |         |         |                |

### UNTUK KELOMPOK KONTROL (12 ORANG)

#### Descriptive Statistics

|                    | N  | Minimum | Maximum | Mean     | Std. Deviation |
|--------------------|----|---------|---------|----------|----------------|
| Usia               | 12 | 24.00   | 65.00   | 48.4167  | 13.70108       |
| ICAM-1 Pre         | 10 | 17.69   | 249.44  | 75.4280  | 77.48107       |
| ICAM-1 Post        | 9  | 16.47   | 242.16  | 92.0600  | 93.04268       |
| VCAMPRE            | 9  | 60.74   | 323.26  | 125.1911 | 81.13114       |
| VCAMPOST           | 9  | 65.13   | 247.03  | 144.7133 | 67.82948       |
| GFR 1              | 12 | 42      | 174     | 76.42    | 36.303         |
| GFR 4              | 12 | 43      | 174     | 76.33    | 35.199         |
| UREUM PRE          | 12 | 54      | 165     | 94.58    | 33.214         |
| UREUM POST         | 12 | 54      | 165     | 94.00    | 34.517         |
| KREATININ PRE      | 12 | 4.10    | 12.70   | 8.2167   | 2.79312        |
| KREATININ POST     | 12 | 4.10    | 12.70   | 7.8717   | 2.34261        |
| Valid N (listwise) | 9  |         |         |          |                |

#### Descriptive Statistics

|                    | N  | Minimum | Maximum | Mean    | Std. Deviation |
|--------------------|----|---------|---------|---------|----------------|
| Sistol mgg1        | 12 | 100     | 169     | 128.25  | 23.518         |
| Sistol mgg4        | 12 | 90      | 190     | 131.83  | 33.796         |
| Distol mgg1        | 12 | 60      | 90      | 76.00   | 10.054         |
| Diastol mgg4       | 12 | 60      | 90      | 76.17   | 8.200          |
| Berat badan mgg1   | 12 | 51.50   | 83.00   | 63.4167 | 10.18205       |
| Berat badan mgg4   | 12 | 50.00   | 80.50   | 61.7083 | 9.88217        |
| Valid N (listwise) | 12 |         |         |         |                |

#### Descriptive Statistics

|                              | N  | Minimum | Maximum | Mean   | Std. Deviation |
|------------------------------|----|---------|---------|--------|----------------|
| Pre-test Blood Flow (Pre)    | 12 | 4.88    | 13.10   | 8.2783 | 2.69736        |
| Pre-test Blood Flow (Post)   | 12 | 1.27    | 9.78    | 6.4683 | 2.39504        |
| Intervensi Blood Flow (Pre)  | 12 | 3.99    | 13.75   | 8.4708 | 2.96710        |
| Intervensi Blood Flow (Post) | 12 | 4.83    | 10.30   | 6.7758 | 1.49333        |
| Post-test Blodd Flow (Pre)   | 12 | 3.40    | 13.28   | 7.8708 | 2.92767        |
| Post-test Blodd Flow (Post)  | 12 | 5.63    | 10.89   | 7.6817 | 1.56522        |
| Valid N (listwise)           | 12 |         |         |        |                |

PADA UJI WILCOXON UNTUK MELIHAT PERUBAHAN PADA MASING2 KELOMPOK → TIDAK ADA PERBEDAAN YANG SIGNIFIKAN PERUNAHAN ALIRAN DARAH TSB

**Test Statistics<sup>a</sup>**

|                                | Usia              | Sistol mgg1       | Distol mmg1       | Sistolm mg4       | Diastol mmg4      | GFR 1             | GFR 4             | Berat badan4      | Berat badan1      |
|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mann-Whitney U                 | 89.500            | 73.000            | 80.500            | 88.000            | 80.000            | 101.000           | 99.500            | 77.000            | 67.000            |
| Wilcoxon W                     | 260.500           | 151.000           | 158.500           | 166.000           | 158.000           | 272.000           | 270.500           | 248.000           | 238.000           |
| Z                              | -.784             | -1.498            | -1.318            | -.856             | -1.343            | -.296             | -.360             | -1.313            | -1.738            |
| Asymp. Sig. (2-tailed)         | .433              | .134              | .187              | .392              | .179              | .767              | .719              | .189              | .082              |
| Exact Sig. [2*(1-tailed Sig.)] | .439 <sup>b</sup> | .146 <sup>b</sup> | .249 <sup>b</sup> | .415 <sup>b</sup> | .249 <sup>b</sup> | .787 <sup>b</sup> | .723 <sup>b</sup> | .200 <sup>b</sup> | .087 <sup>b</sup> |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

PADA UJI WILCOXON UNTUK MELIHAT PERUBAHAN PADA MASING2 KELOMPOK → TIDAK ADA PERBEDAAN YANG SIGNIFIKAN PERUBAHAN ALIRAN DARAH TERSEBUT

Kelompok kasus (18 orang)

**Ranks**

|  | N              | Mean Rank | Sum of Ranks |
|--|----------------|-----------|--------------|
| Intervensi Blood Flow (Pre) - Negative Ranks | 8 <sup>a</sup> | 7.50      | 60.00        |
| Intervensi Blood Flow (Post) Positive Ranks  | 9 <sup>b</sup> | 10.33     | 93.00        |
| Ties   | 1 <sup>c</sup> |           |              |
| Total  | 18             |           |              |

**Test Statistics<sup>a</sup>**

|                        |   |
|------------------------|---|
|                        | Intervensi Blood<br>Flow (Pre) -<br>Intervensi Blood<br>Flow (Post) |
| Z                      | -.781 <sup>b</sup>  |
| Asymp. Sig. (2-tailed) | .435  |

## Kelompok Kontrol (12 Orang)

**Ranks**

|  | N              | Mean Rank | Sum of Ranks |
|--|----------------|-----------|--------------|
| Intervensi Blood Flow (Pre) - Negative Ranks | 5 <sup>a</sup> | 4.80      | 24.00        |
| Intervensi Blood Flow (Post) Positive Ranks  | 7 <sup>b</sup> | 7.71      | 54.00        |
| Ties   | 0 <sup>c</sup> |           |              |
| Total  | 12             |           |              |

|                        |   |
|------------------------|---|
|                        | Intervensi Blood<br>Flow (Pre) -<br>Intervensi Blood<br>Flow (Post) |
| Z                      | -1.177 <sup>b</sup>   |
| Asymp. Sig. (2-tailed) | .239  |

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

## Uji Mann Whitney

|          |                      | Gr |
|----------|----------------------|----|
| Kelompok |                      | I  |
| deltaint | Perendaman CO2       |    |
|          | Perendaman air tawar |    |

Test Statistics<sup>a</sup>

|                                | deltaint          |
|--------------------------------|-------------------|
| Mann-Whitney U                 | 97.000            |
| Wilcoxon W                     | 268.000           |
| Z                              | -.466             |
| Asymp. Sig. (2-tailed)         | .641              |
| Exact Sig. [2*(1-tailed Sig.)] | .662 <sup>b</sup> |

a. Grouping Variable: Kelompok

PADA UJI WILCOXON UNTUK MELIHAT PERUBAHAN PADA MASING2 KELOMPOK → TIDAK ADA PERBEDAAN YANG SIGNIFIKAN PERUBAHAN KADAR VCAM-1 TERSEBUT

Kelompok perendaman co2

Paired Samples Statistics

|               | Mean     | N  | Std. Deviation | Std. Error Mean |
|---------------|----------|----|----------------|-----------------|
| Pair 1 vcampa | 140.5238 | 13 | 177.42984      | 49.21018        |
| vcampa        | 96.1723  | 13 | 30.17281       | 8.36843         |

Test Statistics<sup>a</sup>

|                        | vcampa - vcampa    |
|------------------------|--------------------|
| Z                      | -.105 <sup>b</sup> |
| Asymp. Sig. (2-tailed) | .917               |

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

### Kelompok AIR TAWAR

**Paired Samples Statistics**

|        | Mean     | N        | Std. Deviation | Std. Error Mean |
|--------|----------|----------|----------------|-----------------|
| Pair 1 | vcampra  | 100.4325 | 8              | 34.89350        |
|        | vcampaia | 131.9237 | 8              | 59.79658        |

**Test Statistics<sup>a</sup>**

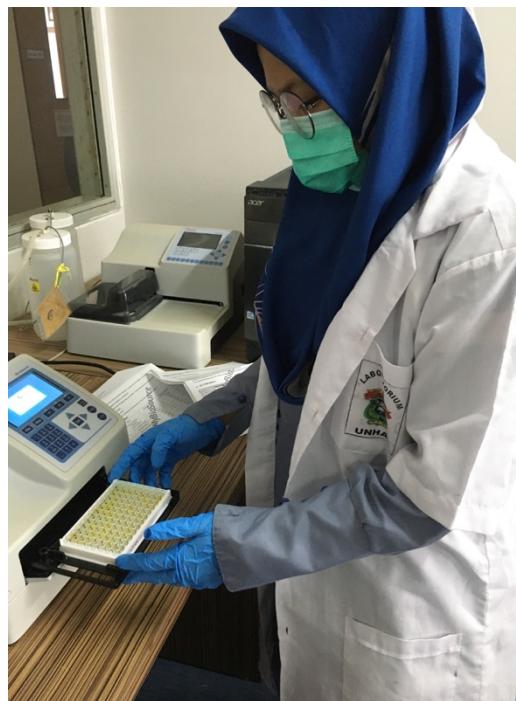
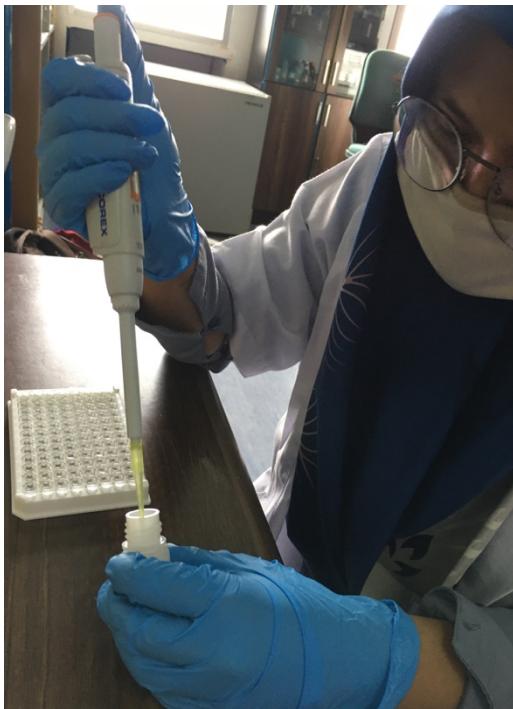
|                        |                       |
|------------------------|-----------------------|
|                        | vcampaia -<br>vcampra |
| Z                      | -1.960 <sup>b</sup>   |
| Asymp. Sig. (2-tailed) | .050                  |

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

## DOKUMENTASI





## PERSETUJUAN ETIK



**KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
 UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN  
 KOMITE ETIK PENELITIAN KESEHATAN  
 RSPTN UNIVERSITAS HASANUDDIN  
 RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR**



Sekretariat : Lantai 3 Gedung Laboratorium Terpadu  
 JL. PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.  
 Contact Person: dr. Agussalim Bukhari, MMed, PhD, Sp.GK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

### **REKOMENDASI PERSETUJUAN ETIK**

Nomor : 334/UN4.6.4.5.31/PP36/2020

Tanggal: 24 Juni 2020

Dengan Ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

|   |  |  |                           |
|---|--|--|---------------------------|
| No Protokol                                       | UH20010008   | No Sponsor Protokol  |                           |
| Peneliti Utama                                    | <b>Annisa Suwahru S.Pd</b>   | Sponsor  |                           |
| Judul Peneliti                                    | Pengaruh Perendaman Kaki Dalam Campuran Air dan Karbondioksida Terhadap Perubahan Nilai Aliran Darah dan Mengukur Kadar VCAM-1 Pada Penderita Gagal Ginjal |  |                           |
| No Versi Protokol                                 | 2  | Tanggal Versi  | 2 Januari 2020            |
| No Versi PSP                                      | 2  | Tanggal Versi  | 2 Januari 2020            |
| Tempat Penelitian                                 | <b>RSPTN Universitas Hasanuddin Makassar, Laboratorium Biologi Molekuler (Hum Rc)</b>  |  |                           |
| Jenis Review                                      | <input type="checkbox"/> Exempted<br><input checked="" type="checkbox"/> Expedited<br><input type="checkbox"/> Fullboard                                   | Masa Berlaku<br><b>24 Juni 2020</b><br>Sampai<br><b>24 Juni 2021</b> | Frekuensi review lanjutan |
| Ketua Komisi Etik Penelitian Kesehatan FK UH      | Nama<br><b>Prof.Dr.dr.Suryani As'ad.,MSc,Sp.GK (K)</b>   | Tanda tangan<br>   | Tanggal                   |
| Sekretaris Komisi Etik Penelitian Kesehatan FK UH | Nama<br><b>dr. Agussalim Bukhari, M.Med, PhD, Sp.GK (K)</b>  | Tanda tangan<br>   | Tanggal                   |

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Lapor SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari prokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan