

Lampiran 1 – Lembar Persetujuan Kaji Etik



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PERSETUJUAN ETIK
Ethical Clearance
Nomor: 144/KER/FK/I/2019

Komisi Etik Riset Fakultas Kedokteran Universitas Trisakti setelah mempelajari dengan seksama dan mendengarkan penjelasan dari peneliti utama tentang kemungkinan adanya dampak etis terhadap subyek riset, masyarakat dan lingkungan, menetapkan penelitian dengan judul:

**"PENGARUH PEMBERIAN EKSTRAK DAUN BLACKBERRY
(*Rubus Sp*) TERHADAP KADAR SUPEROXIDE DISMUTASE
(SOD) PADA JANTUNG DAN DARAH TIKUS *SPRAGUE
DAWLEY* YANG DIINDUKSI HIPOKSIA**

Peneliti Utama : Steffanny Regina Maria Andini

Lembaga/Tempat penelitian : FK Universitas Tarumanagara

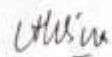
Dinyatakan memenuhi persyaratan etik untuk dilaksanakan.

Jakarta, 17 Januari 2019

Ketua


Prof. DR. dr. Adi Hidayat, MS

Sekretaris


dr. Alvina SpPK

Lampiran 2 – Identifikasi Tanaman Blackberry



LEMBAGA ILMU PENGETAHUAN INDONESIA
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Cibinong, 6 April 2018

Nomor : 365/IPH.1.01/II.07/IV/2018
Lampiran : -
Perihal : Hasil identifikasi/determinasi Tumbuhan

Kepada Yth.
Bpk./Ibu/Sdr(i). **Chindy Tjandra**
Mhs. Univ. Tarumanagara
Jl. Letjend S. Parman No.1
Jakarta - 11440

Dengan hormat,

Bersama ini kami sampaikan hasil identifikasi/determinasi tumbuhan yang Saudara kirimkan ke "Herbarium Bogoriense", Bidang Botani Pusat Penelitian Biologi-LIPI Bogor, adalah sebagai berikut :

| No. | No. Koi. | Jenis | Suku |
|-----|------------|--------------------------|----------|
| 1 | Strawberry | <i>Fragaria vesca</i> L. | Rosaceae |
| 2 | Raspberry | <i>Rubus idaeus</i> L. | Rosaceae |
| 3 | Blackberry | <i>Rubus</i> sp. | Rosaceae |

Demikian, semoga berguna bagi Saudara.

Kepala Bidang Botani
Pusat Penelitian Biologi-LIPI,

Dr. Joepi Setijo Rahajoe
NIP. 196706241993032004

Lampiran 3 – Buah *Blackberry* dan Daun *Blackberry*



Lampiran 4 - Pembuatan Ekstrak Daun *Blackberry*



1.1.1 Proses Pengeringan



1.1.2 Proses Pemplenderan = hingga menjadi bentuk bubuk



1.1.3 Proses Maserasi



1.1.4 Proses Evaporasi

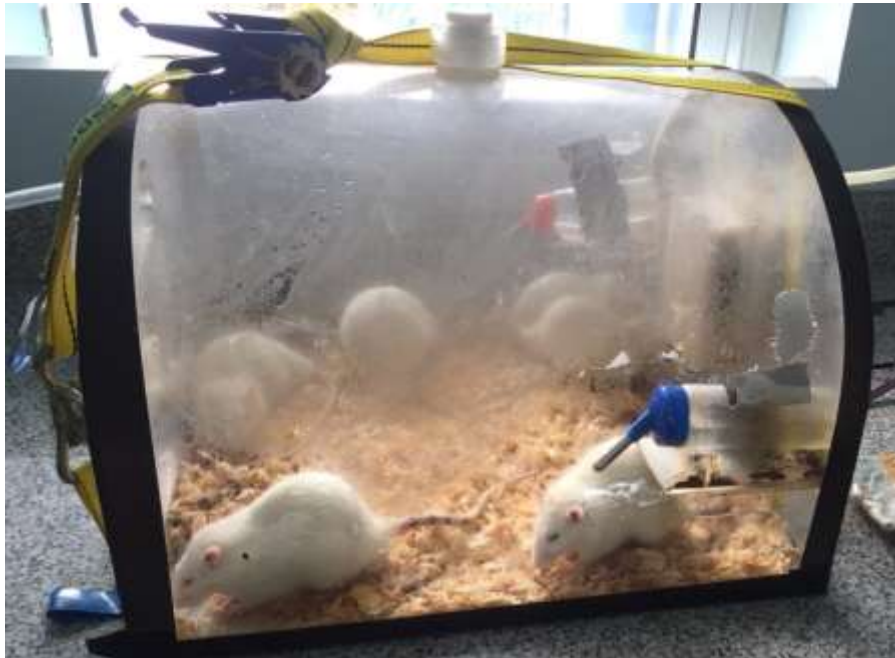
Lampiran 5 – Pemberian Ekstrak Daun *Blackberry* pada Tikus



Lampiran 6 – Uji Toksisitas Ekstrak Daun *Blackberry*



Lampiran 7 – Uji pada Hewan Coba



Proses induksi hipoksia pada tikus



Pembiusan Tikus sebelum dioperasi



Pengambilan organ dan darah tikus

Lampiran 8 – Alat-alat yang Digunakan



Lampiran 9 - Pembanding = Vitamin C

| Konsentrasi ($\mu\text{g/mL}$) | Absorbansi (A) | % Inhibisi |
|-------------------------------------|--------------------------|-----------------------|
| 2 | 0,346 | 32,6848249 |
| 4 | 0,288 | 43,9688716 |
| 6 | 0,213 | 58,56031128 |
| 8 | 0,152 | 70,42801556 |
| 10 | 0,086 | 83,26848249 |
| | IC₅₀ = | 4,78 $\mu\text{g/ml}$ |

Tabel Regresi Linear Standar Pembanding Vitamin C

| Linear Regression | Nilai |
|----------------------------------|---------------------|
| Best-fit values \pm SE | |
| Slope | 6,381 \pm 0,1261 |
| Y-intercept | 19,49 \pm 0,8363 |
| X-intercept | -3,055 |
| 1/slope | 0,1567 |
| 95% Confidence Intervals | |
| Slope | 5,98 to 6,783 |
| Y-intercept | 16,83 to 22,16 |
| X-intercept | -3,69 to -2,492 |
| Goodness of Fit | |
| R square | 0,9988 |
| Sy.x | 0,7974 |
| Is slope significantly non-zero? | |
| F | 2562 |
| DFn, DFd | 1, 3 |
| P value | <0,0001 |
| Deviation from zero? | Significant |
| Equation | Y = 6,381*X + 19,49 |
| Data | |
| Number of X values | 5 |
| Maximum number of Y replicates | 1 |
| Total number of values | 5 |
| Number of missing values | 0 |

Lampiran 10 - Ekstrak Daun Blackberry

| Konsentrasi ($\mu\text{g/ml}$) | Absorbansi (A) | % Inhibisi |
|----------------------------------|----------------|-------------------------|
| 10 | 0,4965 | 3,404669261 |
| 30 | 0,458 | 10,89494163 |
| 50 | 0,4215 | 17,99610895 |
| 70 | 0,385 | 25,09727626 |
| 90 | 0,3355 | 34,72762646 |
| IC₅₀ = | | 132,19 $\mu\text{g/ml}$ |

Tabel Regresi Linear Hasil DPPH Ekstrak Daun Blackberry

| Best-fit values \pm SE | |
|----------------------------------|---------------------------|
| Slope | 0,3842 \pm 0,01362 |
| Y-intercept | -0,7879 \pm 0,7823 |
| X-intercept | 2,051 |
| 1/slope | 2,603 |
| 95% Confidence Intervals | |
| Slope | 0,3409 to 0,4276 |
| Y-intercept | -3,278 to 1,702 |
| X-intercept | -4,917 to 7,783 |
| Goodness of Fit | |
| R square | 0,9962 |
| Sy.x | 0,8613 |
| Is slope significantly non-zero? | |
| F | 796 |
| DFn, DFd | 1, 3 |
| P value | <0,0001 |
| Deviation from zero? | Significant |
| Equation | $Y = 0,3842 * X - 0,7879$ |
| Data | |
| Number of X values | 5 |
| Maximum number of Y replicates | 1 |
| Total number of values | 5 |
| Number of missing values | 0 |

Lampiran 11 - Total Fenolik pada Ekstrak Daun Blackberry

| Rata-Rata Absorbansi | Kadar Fenolik ($\mu\text{g/mL}$) |
|----------------------|---------------------------------------|
| 0,5355 | 570,82 |

Tabel Regresi Linear Total Phenolic Content (Kapasitas Total Fenolik) pada Ekstrak Daun Blackberry

| | |
|----------------------------------|----------------------------|
| Best-fit values \pm SE | |
| Slope | 0,00073 \pm 7,332e-005 |
| Y-intercept | 0,1188 \pm 0,0381 |
| X-intercept | -162,7 |
| 1/slope | 1370 |
| 95% Confidence Intervals | |
| Slope | 0,0004967 to 0,0009633 |
| Y-intercept | -0,002447 to 0,24 |
| X-intercept | -478,9 to 2,564 |
| Goodness of Fit | |
| R square | 0,9706 |
| Sy.x | 0,02319 |
| Is slope significantly non-zero? | |
| F | 99,13 |
| DFn, DFd | 1, 3 |
| P value | 0,0022 |
| Deviation from zero? | Significant |
| Equation | $Y = 0,00073 * X + 0,1188$ |
| Data | |
| Number of X values | 5 |
| Maximum number of Y replicates | 1 |
| Total number of values | 5 |
| Number of missing values | 0 |

Lampiran 12 - Total Alkaloid pada Ekstrak Daun Blackberry

| | Absorbansi | Kadar Total Alkaloid ($\mu\text{g/mL}$) | Rata-Rata Kadar Total Alkaloid ($\mu\text{g/mL}$) |
|-----------|------------|--|---|
| I | 0,187 | 16,08 | 15,38 |
| II | 0,175 | 14,68 | |

Tabel Regresi Linear Total Alkaloid Content (Kapasitas Total Alkaloid) pada Ekstrak Daun Blackberry

| | | |
|----------------------------------|--|-----------------------------|
| Best-fit values \pm SE | | |
| Slope | | 0,001715 \pm 0,0001864 |
| Y-intercept | | 0,0491 \pm 0,01237 |
| X-intercept | | -28,63 |
| 1/slope | | 583,1 |
| 95% Confidence Intervals | | |
| Slope | | 0,001122 to 0,002308 |
| Y-intercept | | 0,009743 to 0,08846 |
| X-intercept | | -77,04 to -4,321 |
| Goodness of Fit | | |
| R square | | 0,9658 |
| Sy.x | | 0,01179 |
| Is slope significantly non-zero? | | |
| F | | 84,62 |
| DFn, DFd | | 1, 3 |
| P value | | 0,0027 |
| Deviation from zero? | | Significant |
| Equation | | $Y = 0,001715 * X + 0,0491$ |
| Data | | |
| Number of X values | | 5 |
| Maximum number of Y replicates | | 1 |
| Total number of values | | 5 |
| Number of missing values | | 0 |

Lampiran 13 – Ekstrak Daun Blackberry terhadap Larva A. salina

| Konsentrasi (µg/ml) | Hidup | Mati | Akumulasi Kehidupan | Akumulasi Kematian | Persentase Rata- Rata Kematian Larva Udang (%) |
|-----------------------------------|-------|------|--------------------------------------|-----------------------|--|
| 10 | 15 | 5 | 29 | 5 | 14.70 |
| 100 | 9 | 11 | 14 | 16 | 53.33 |
| 500 | 4 | 16 | 5 | 32 | 86.48 |
| 1000 | 1 | 19 | 1 | 51 | 98.08 |
| log LC₅₀ = 1,87 | | | LC₅₀ = 74,41 µg/MI | | |

Tabel Regresi Uji Toksisitas BSLT pada Ekstrak Daun Blackberry

| | |
|----------------------------------|---------------------|
| Best-fit values ± SE | |
| Slope | 41,67 ± 1,147 |
| Y-intercept | -27,99 ± 2,645 |
| X-intercept | 0,6717 |
| 1/slope | 0,024 |
| 95% Confidence Intervals | |
| Slope | 36,74 to 46,6 |
| Y-intercept | -39,37 to -16,61 |
| X-intercept | 0,4478 to 0,8528 |
| Goodness of Fit | |
| R square | 0,9985 |
| Sy.x | 1,764 |
| Is slope significantly non-zero? | |
| F | 1321 |
| DFn, DFd | 1, 2 |
| P value | 0,0008 |
| Deviation from zero? | |
| Significant | |
| Equation | Y = 41,67*X - 27,99 |
| Data | |
| Number of X values | 4 |
| Maximum number of Y replicates | 1 |
| Total number of values | 4 |
| Number of missing values | 0 |

Lampiran 14 – Standar MDA

| | Standar MDA | Kadar MDA (nmol/mL) | Rata-rata Absorbansi |
|-------|--------------------|--------------------------------|---------------------------------|
| | S1 | 0.078 | 0.012 |
| | S2 | 0.156 | 0.021 |
| | S3 | 0.312 | 0.043 |
| | S4 | 0.625 | 0.085 |
| Tabel | S5 | 1.250 | 0.156 |
| | S6 | 2.500 | 0.301 |

Regresi Linear Standar MDA

| | | |
|----------------------------------|--|-----------------------------|
| Best-fit values \pm SE | | |
| Slope | | 0.1191 \pm 0.001715 |
| Y-intercept | | 0.005342 \pm 0.002021 |
| X-intercept | | -0.04487 |
| 1/slope | | 8.398 |
| 95% Confidence Intervals | | |
| Slope | | 0,001122 to 0.1238 |
| Y-intercept | | -0.0002676 to 0,08846 |
| X-intercept | | -0.09469 to 0.002187 |
| Goodness of Fit | | |
| R square | | 0.9992 |
| Sy.x | | 0.003554 |
| Is slope significantly non-zero? | | |
| F | | 4822 |
| DFn, DFd | | 1, 4 |
| P value | | <0.0001 |
| Deviation from zero? | | Significant |
| Equation | | $Y = 0.1191 * X + 0.005342$ |
| Data | | |
| Number of X values | | 6 |
| Maximum number of Y replicates | | 1 |
| Total number of values | | 6 |
| Number of missing values | | 0 |

Lampiran 15 – Tabel Hasil Absorbansi dan Kadar MDA Darah

Tabel Darah Tidak Cekok - **Normoksia**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.085 | 0.087 | 0.086 | 0.685 |
| T2 | 0.072 | 0.068 | 0.070 | 0.551 |
| T3 | 0.070 | 0.066 | 0.068 | 0.534 |
| T4 | 0.084 | 0.080 | 0.082 | 0.647 |
| | | Rata- Rata | 0.077 | 0.604 |

Tabel Darah Tidak Cekok – **Hipoksia 1 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.107 | 0.101 | 0.104 | 0.836 |
| T2 | 0.116 | 0.104 | 0.110 | 0.882 |
| T3 | 0.109 | 0.101 | 0.105 | 0.845 |
| T4 | 0.095 | 0.091 | 0.093 | 0.740 |
| | | Rata- Rata | 0.103 | 0.825 |

Tabel Darah Tidak Cekok – **Hipoksia 7 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.140 | 0.132 | 0.136 | 1.105 |
| T2 | 0.152 | 0.146 | 0.149 | 1.214 |
| T3 | 0.135 | 0.131 | 0.133 | 1.080 |
| T4 | 0.139 | 0.147 | 0.143 | 1.160 |
| | | Rata- Rata | 0.140 | 1.139 |

Tabel Darah Tidak Cekok – **Hipoksia 14 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.178 | 0.174 | 0.176 | 1.441 |
| T2 | 0.199 | 0.185 | 0.192 | 1.571 |
| T3 | 0.190 | 0.182 | 0.186 | 1.525 |
| T4 | 0.180 | 0.176 | 0.178 | 1.458 |
| | | Rata- Rata | 0.183 | 1.498 |

Tabel Darah Cekok - **Normoksia**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.055 | 0.053 | 0.054 | 0.412 |
| T2 | 0.038 | 0.024 | 0.031 | 0.217 |
| T3 | 0.037 | 0.031 | 0.034 | 0.245 |
| T4 | 0.042 | 0.038 | 0.040 | 0.291 |
| | | Rata- Rata | 0.040 | 0.291 |

Tabel Darah Cekok – **Hipoksia 1 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.099 | 0.097 | 0.098 | 0.778 |
| T2 | 0.089 | 0.083 | 0.086 | 0.681 |
| T3 | 0.076 | 0.072 | 0.074 | 0.580 |
| T4 | 0.063 | 0.067 | 0.065 | 0.505 |
| | | Rata- Rata | 0.081 | 0.636 |

Tabel Darah Cekok – **Hipoksia 7 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.132 | 0.126 | 0.129 | 1.046 |
| T2 | 0.137 | 0.127 | 0.132 | 1.071 |
| T3 | 0.115 | 0.105 | 0.110 | 0.882 |
| T4 | 0.110 | 0.100 | 0.105 | 0.841 |
| | | Rata- Rata | 0.119 | 0.960 |

Tabel Darah Cekok – **Hipoksia 14 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.165 | 0.163 | 0.164 | 1.340 |
| T2 | 0.178 | 0.180 | 0.179 | 1.462 |
| T3 | 0.143 | 0.141 | 0.142 | 1.155 |
| T4 | 0.139 | 0.135 | 0.137 | 1.113 |
| | | Rata- Rata | 0.156 | 1.267 |

Lampiran 16 – Tabel Hasil Absorbansi dan Kadar MDA Otak

Tabel Otak Tidak Cekok - Normoksia

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.238 | 0.230 | 0.234 | 1.928 |
| T2 | 0.236 | 0.228 | 0.232 | 1.911 |
| T3 | 0.220 | 0.218 | 0.219 | 1.794 |
| T4 | 0.192 | 0.190 | 0.191 | 1.567 |
| | | Rata- Rata | 0.219 | 1.800 |

Tabel Otak Tidak Cekok – Hipoksia 1 hari

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.289 | 0.285 | 0.287 | 2.365 |
| T2 | 0.245 | 0.237 | 0.241 | 1.979 |
| T3 | 0.237 | 0.235 | 0.236 | 1.945 |
| T4 | 0.239 | 0.235 | 0.237 | 1.953 |
| | | Rata- Rata | 0.250 | 2.060 |

Tabel Otak Tidak Cekok – Hipoksia 7 hari

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.257 | 0.253 | 0.255 | 2.104 |
| T2 | 0.248 | 0.250 | 0.249 | 2.045 |
| T3 | 0.259 | 0.265 | 0.262 | 2.154 |
| T4 | 0.262 | 0.266 | 0.264 | 2.177 |
| | | Rata- Rata | 0.257 | 2.120 |

Tabel Otak Tidak Cekok – Hipoksia 14 hari

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.290 | 0.290 | 0.290 | 2.390 |
| T2 | 0.281 | 0.273 | 0.277 | 2.280 |
| T3 | 0.283 | 0.285 | 0.284 | 2.339 |
| T4 | 0.292 | 0.288 | 0.290 | 2.391 |
| | | Rata- Rata | 0.285 | 2.350 |

Tabel Otak Cekok - **Normoksia**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.126 | 0.126 | 0.126 | 1.018 |
| T2 | 0.125 | 0.121 | 0.123 | 0.988 |
| T3 | 0.120 | 0.118 | 0.119 | 0.960 |
| T4 | 0.118 | 0.116 | 0.117 | 0.944 |
| | | Rata- Rata | 0.121 | 0.977 |

Tabel Otak Cekok – **Hipoksia 1 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.179 | 0.175 | 0.177 | 1.440 |
| T2 | 0.150 | 0.146 | 0.148 | 1.204 |
| T3 | 0.147 | 0.145 | 0.146 | 1.188 |
| T4 | 0.140 | 0.134 | 0.137 | 1.112 |
| | | Rata- Rata | 0.152 | 1.236 |

Tabel Otak Cekok – **Hipoksia 7 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.236 | 0.230 | 0.233 | 1.914 |
| T2 | 0.199 | 0.201 | 0.200 | 1.642 |
| T3 | 0.175 | 0.177 | 0.176 | 1.440 |
| T4 | 0.145 | 0.143 | 0.144 | 1.166 |
| | | Rata- Rata | 0.188 | 1.540 |

Tabel Otak Cekok – **Hipoksia 14 hari**

| | Absorbansi (Duplo) | | Rata-Rata Absorbansi | Kadar MDA (nmol/mL) |
|-----------|--------------------|------------|-------------------------|------------------------|
| | I | II | | |
| T1 | 0.265 | 0.261 | 0.263 | 2.163 |
| T2 | 0.270 | 0.268 | 0.269 | 2.213 |
| T3 | 0.260 | 0.256 | 0.258 | 2.121 |
| T4 | 0.270 | 0.270 | 0.270 | 2.222 |
| | | Rata- Rata | 0.265 | 2.180 |

Lampiran 17 – Uji Statistik Kadar MDA Darah

Nilai Rerata dan Uji Mann-Whitney untuk Perbedaan Kadar MDA Darah

| Col. | 0 TC | 0 C | 1 TC | 1 C | 7 TC | 7 C | 14 TC | 14 C |
|--|--------|--------|--------------------|------------------|--------------------|------------------|---------------------|-------------------|
| Mean | 0.6043 | 0.2913 | 0.8258 | 0.636 | 1.14 | 0.96 | 1.499 | 1.268 |
| Std. Dev. | 0.0733 | 0,0860 | 0.0605 | 0,119 | 0,05972 | 0,1154 | 0,0602 | 0,1629 |
| Std. Error | 0.0366 | 0,0430 | 0.0302 | 0,0595 | 0,0298 | 0,0577 | 0,0301 | 0,0814 |
| Mann-Whitney Test | | | 1 TC Vs 0 TC | 1 C Vs 0 C | 7 TC Vs 0 TC | 7 C Vs 0 C | 14 TC Vs 0 TC | 14 C Vs 0 C |
| P value | | | 0.0286 | 0.0286 | 0.0286 | 0.0286 | 0.0286 | 0.0286 |
| Significantly different (P < 0.05)? | | | Yes | Yes | Yes | Yes | Yes | Yes |
| One- or two tailed P value? | | | Two-tailed | Two-tailed | Two-tailed | Two-tailed | Two-tailed | Two-tailed |

Lampiran 18 – Uji Statistik Kadar MDA Otak

Nilai Rerata dan Uji Mann-Whitney untuk Perbedaan Kadar MDA Otak

| Col. | | | | | | | | |
|-------------------------------------|--------|--------|------------|------------|------------|------------|------------|------------|
| Stat | 0 TC | 0 C | 1 TC | 1 C | 7 TC | 7 C | 14 TC | 14 C |
| Mean | 1,8 | 0,9775 | 2,061 | 1,236 | 2,52 | 1,541 | 2,944 | 2,482 |
| Std. Dev. | 0,1664 | 0,0325 | 0,2035 | 0,1418 | 0,1066 | 0,3163 | 0,3544 | 0,0632 |
| Std. Error | 0,0831 | 0,0162 | 0,1018 | 0,0709 | 0,0533 | 0,1582 | 0,1772 | 0,0316 |
| Mann-Whitney Test | | | 1 TC | 1 C | 7 TC | 7 C | 14 TC | 14 C |
| | | | Vs | Vs | Vs | Vs | Vs | Vs |
| | | | 0 TC | 0 C | 0 TC | 0 C | 0 TC | 0 C |
| P value | | | 0.0286 | 0.0286 | 0.0286 | 0.0286 | 0.0286 | 0.0286 |
| Significantly different (P < 0.05)? | | | Yes | Yes | Yes | Yes | Yes | Yes |
| One- or two tailed P value? | | | Two-tailed | Two-tailed | Two-tailed | Two-tailed | Two-tailed | Two-tailed |

Lampiran 19 – Uji Korelasi Pearson Kadar MDA

| Kadar MDA Tidak Cekok | | |
|-----------------------|-------|-------|
| | Otak | Darah |
| Normoksia | 1.800 | 0.604 |
| Hipoksia 1 hari | 2.061 | 0.825 |
| Hipoksia 7 hari | 2.520 | 1.139 |
| Hipoksia 14 hari | 2.944 | 1.498 |

| Correlation | Kadar MDA Otak & Darah Tidak Cekok |
|-----------------------------|------------------------------------|
| Pearson r | |
| R | 0,999 |
| 95% confidence interval | 0,9511 to 1 |
| R squared | 0,998 |
| P value | |
| P (two-tailed) | 0,0010 |
| P value summary | *** |
| Significant? (alpha = 0.05) | Yes |
| Number of XY Pairs | 4 |

| Kadar MDA Cekok | | |
|------------------|-------|-------|
| | Otak | Darah |
| Normoksia | 0.977 | 0.291 |
| Hipoksia 1 hari | 1.236 | 0.636 |
| Hipoksia 7 hari | 1.540 | 0.960 |
| Hipoksia 14 hari | 2.482 | 1.267 |

| Correlation | Kadar MDA Otak & Darah Cekok |
|-----------------------------|------------------------------|
| Pearson r | |
| R | 0,9388 |
| 95% confidence interval | -0,2283 to 0,9987 |
| R squared | 0,9813 |
| P value | |
| P (two-tailed) | 0,0612 |
| P value summary | *** |
| Significant? (alpha = 0.05) | Yes |
| Number of XY Pairs | 4 |

DAFTAR RIWAYAT HIDUP

A. Data Pribadi

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B. Latar Belakang Pendidikan

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