

Lampiran 1. Lembar Persetujuan Etik



KOMISI ETIK RISET
FAKULTAS KEDOKTERAN
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PERSETUJUAN ETIK *Ethical Clearance* Nomor: 125/KER/FK/XII/2017

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 *CRESCENTIA CUJETE* TERHADAP STRES OKSIDATIF PADA JANTUNG DAN OTAK TIKUS *SPRAGUE DAWLEY* YANG DIINDUKSI HIPOKSIA"

Peneliti Utama : Alfred H Alphanto

Lembaga/Tempat penelitian : FK Universitas Tarumanagara


Dinyatakan memenuhi persyaratan etik untuk dilaksanakan.

Jakarta, 18 Desember 2017

Ketua

Prof. DR. dr. Adi Hidayat, MS

Sekretaris


dr. Alvina, SpPK

**Lampiran 2. Pencecokan Tikus dengan Ekstrak Daun berenuk
(*Crescentia Cujete*)**



Lampiran 3. Evaporasi Ekstrak berenuk



Lampiran 4. Perlakuan Hipoksia pada Tikus



Lampiran 5. Absorbansi dan Kadar MDA Hati Tikus

1. Hati Normoksia kontrol

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar MDA (nmol/L)
	I	II		
Tikus 1	0.132	0.140	0.136	1.097
Tikus 2	0.82	0.78	0.080	0.627
Tikus 3	0.207	0.210	0.209	1.71
Tikus 4	0.8	0.86	0.083	0.652
	Rata-Rata		0.127	0.614

2. Hati Hipoksia 3 hari Kontrol

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tiksu 1	0.18	0.22	0.2	1.634
Tikus 2	0.410	0.416	0.413	3.423
Tikus 3	0/382	0.380	0.381	3.154
Tikus 4	0.205	0.215	0.210	1.718
	Rata-Rata		0.301	2.482

3. Hati Hipoksia 7 hari Kontrol

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.240	0.242	0.241	1.979
Tikus 2	0.276	0.274	0.275	2.264
Tikus 3	0.322	0.316	0.319	2.63
Tikus 4	0.430	0.420	0.425	5.524
	Rata-Rata			2.6

4. Hati Hipoksia 14 hari Kontrol

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.498	0.506	0.502	4.17
Tikus 2	0.435	0.453	0.454	3.767
Tikus 3	0.426	0.438	0.432	3.582
Tikus 4	0.445	0.441	0.443	3.675
	Rata-Rata			3.799

Hati Normoksia Berenuk

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.068	0.068	0.064	0.492
Tikus 2	0.111	0.109	0.110	0.879
Tikus 3	0.132	0.136	0.134	0.543
Tikus 4	0.123	0.127	0.125	0.551
	Rata-Rata		0.078	0.614

Hati Hipoksia 3 hari Berenuk

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.121	0.119	0.120	0.963
Tikus 2	0.141	0.147	0.144	1.206
Tikus 3	0.130	0.138	0.134	1.080
Tikus 4	0.123	0.127	0.125	1.004
	Rata-Rata		0.132	1.063

Hati Hipoksia 7 hari Berenuk

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.137	0.139	0.139	1.122
Tikus 2	0.182	0.188	0.185	1.508
Tikus 3	0.245	0.235	0.240	1.97
Tikus 4	0.230	0.234	0.232	1.903
	Rata-Rata		0.199	1.626

Hati Hipoksia 14 hari Berenuk

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.214	0.206	0.210	1.715
Tikus 2	0.230	0.234	0.232	1.903
Tikus 3	0.269	0.275	0.272	2.239
Tikus 4	0.213	0.211	0.212	1.735
	Rata-Rata		0.232	1.899

Lampiran 6. Absorbansi dan Kadar MDA Darah Tikus

1. Darah Normoksia Kontrol

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.046	0.042	0.044	0.325
Tikus 2	0.037	0.033	0.035	0.249
Tikus 3	0.039	0.042	0.042	0.308
Tikus 4	0.033	0.036	0.035	0.247
	Rata-Rata		0.0389	0.282

2. Darah Hipoksia 3 hari Kontrol

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.064	0.07	0.054	0.518
Tikus 2	0.066	0.068	0.051	0.493
Tikus 3	0.075	0.067	0.054	0.552
Tikus 4	0.065	0.062	0.057	0.489
	Rata-Rata		0.055	0.513

3. Darah Hipoksia 7 hari Kontrol

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.076	0.078	0.075	0.602
Tikus 2	0.083	0.087	0.085	0.669
Tikus 3	0.085	0.081	0.083	0.652
Tikus 4	0.081	0.075	0.078	0.610
	Rata-Rata		0.081	0.634

4. Darah Hipoksia 14 hari Kontrol

	Duplo (Absorbansi)		Rerata Absorbansi	Kadar (nmol/L)
	I	II		
Tikus 1	0.11	0.108	0.109	0.871
Tikus 2	0.108	0.114	0.111	0.887
Tikus 3	0.125	0.117	0.121	0.971
Tikus 4	0.107	0.103	0.105	0.837
	Rata-Rata		0.112	0.892

5. Darah Normoksia Berenuk

	Duplo (Absorbansi)		Rerata	Kadar
	I	II	Absorbansi	(nmol/L)
Tikus 1	0.032	0.03	0.031	0.0216
Tikus 2	0.032	0.034	0.034	0.241
Tikus 3	0.031	0.033	0.032	0.224
Tikus 4	0.036	0.03	0.033	0.233
	Rata-Rata		0.0325	0.228

6. Darah Hipoksia 3 hari Berenuk

	Duplo (Absorbansi)		Rerata	Kadar
	I	II	Absorbansi	(nmol/L)
Tikus 1	0.052	0.056	0.054	0.409
Tikus 2	0.054	0.052	0.053	0.401
Tikus 3	0.057	0.051	0.054	0.409
Tikus 4	0.054	0.060	0.057	0.434
	Rata-Rata		0.0545	0.413

7. Darah Hipoksia 7 hari Berenuk

	Duplo (Absorbansi)		Rerata	Kadar
	I	II	Absorbansi	(nmol/L)
Tikus 1	0.072	0.068	0.07	0.543
Tikus 2	0.067	0.065	0.066	0.510
Tikus 3	0.07	0.072	0.071	0.552
Tikus 4	0.069	0.067	0.068	0.526
	Rata-Rata		0.069	0.537

8. Darah Hipoksia 14 hari Berenuk

	Duplo (Absorbansi)		Rerata	Kadar
	I	II	Absorbansi	(nmol/L)
Tikus 1	0.099	0.095	0.097	0.770
Tikus 2	0.096	0.092	0.094	0.745
Tikus 3	0.093	0.097	0.095	0.753
Tikus 4	0.103	0.093	0.098	0.778
	Rata-Rata		0.096	0.764

Lampiran 7. 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	0.1143 to 0.1238
Y-intercept	-0.0002676 to 0.01095
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 8. Uji Mann – Whitney untuk Kadar MDA Hati

1. Normoksia Cekok vs Hipoksia 3 hari

Table Analyzed	mda hati cekok
Column A	Normoksia
vs.	vs.
Column B	Hipoksia 3
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.5471, n=4
Median of column B	1.042, n=4
Difference: Actual	-0.4954
Difference: Hodges-Lehmann	-0.466

2. Normoksia Cekok vs Hipoksia 7 hari

Table Analyzed	mda hati cekok
Column A	Normoksia
vs.	vs.
Column C	Hipoksia 7
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,C	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.5471, n=4
Median of column C	1.706, n=4

Difference: Actual	-1.159
Difference: Hodges-Lehmann	-1.02
Table Analyzed	mda hati cekok
Column A	Normoksia
vs.	vs.
Column D	Hipoksia 14
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,D	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.5471, n=4
Median of column D	1.819, n=4
Difference: Actual	-1.272
Difference: Hodges-Lehmann	-1.234

3. Normoksia Kontrol vs Hipoksia 14 hari

4. Normoksia Kontrol vs Hipoksia 3 hari

Table Analyzed	mda hati tdk cekok
Column A	Normoksia
vs.	vs.
Column B	Hipoksia 3
Mann Whitney test	
P value	0.0571
Exact or approximate P value?	Exact
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	11 , 25
Mann-Whitney U	1
Difference between medians	
Median of column A	0.8745, n=4

Median of column B	2.436, n=4
Difference: Actual	-1.562
Difference: Hodges-Lehmann	-1.268

5. Normoksia Kontrol vs Hipoksia 7 hari

Table Analyzed	mda hati tdk cekok
Column A	Normoksia
vs.	vs.
Column C	Hipoksia 7
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,C	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.8745, n=4
Median of column C	2.449, n=4
Difference: Actual	-1.574
Difference: Hodges-Lehmann	-1.574

6. Normoksia Kontrol vs Hipoksia 14 hari

Table Analyzed	mda hati tdk cekok
Column A	Normoksia
vs.	vs.
Column D	Hipoksia 14
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,D	10 , 26
Mann-Whitney U	0

Difference between medians	
Median of column A	0.8745, n=4
Median of column D	3.721, n=4
Difference: Actual	-2.846
Difference: Hodges-Lehmann	-2.943

Lampiran 9. Uji Mann - Whitney Kadar MDA Darah Tiksu

1. Normoksia Cekok vs Hipoksia 3 hari

Table Analyzed	mda darah cekok
Column A	Normoksia
vs.	vs.
Column B	Hipoksia 3
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.228, n=4
Median of column B	0.4085, n=4
Difference: Actual	-0.1805
Difference: Hodges-Lehmann	-0.1847

2. Normoksia Cekok vs Hipoksia 7 hari

Table Analyzed	mda darah cekok
Column A	Normoksia
vs.	vs.
Column C	Hipoksia 7
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,C	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.228, n=4
Median of column C	0.5345, n=4
Difference: Actual	-0.3065
Difference: Hodges-Lehmann	-0.3065

3. Normoksia Cekok vs Hipoksia 14 hari

Table Analyzed	mda darah cekok
Column A	Normoksia
vs.	vs.
Column D	Hipoksia 14
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,D	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.228, n=4
Median of column D	0.7612, n=4

Difference: Actual	-0.5332
Difference: Hodges-Lehmann	-0.5332

4. Normoksia Kontrol vs Hipoksia 3 hari

Table Analyzed	mda darah tdk cekok
Column A	Normoksia
vs.	vs.
Column B	Hipoksia 3
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.2784, n=4
Median of column B	0.5051, n=4
Difference: Actual	-0.2267
Difference: Hodges-Lehmann	-0.2406

5. Normoksia Kontrol vs Hipoksia 7 hari

Table Analyzed	mda darah tdk cekok
Column A	Normoksia
vs.	vs.
Column C	Hipoksia 7
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,C	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.2784, n=4
Median of column C	0.631, n=4
Difference: Actual	-0.3526

Difference: Hodges-Lehmann	-0.3539
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6. Normoksia Kontrol vs Hipoksia 14 hari

Table Analyzed	mda darah tdk cekok
Column A	Normoksia
vs.	vs.
Column D	Hipoksia 14
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,D	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.2784, n=4
Median of column D	0.8787, n=4
Difference: Actual	-0.6003
Difference: Hodges-Lehmann	-0.6058

**Lampiran 10. Uji Man - Whitney untuk Perbandingan Kadar MDA Hati
Tikus yang Dicekok ekstrak Berenuk dan Tidak**

1. Normoksia Cekok vs Normoksia Kontrol

Table Analyzed	hati cekok-tdk cekok2
Column A	nc
vs.	vs.
Column B	nk
Mann Whitney test	
P value	0.1143
Exact or approximate P value?	Exact
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	12 , 24
Mann-Whitney U	2
Difference between medians	
Median of column A	0.5471, n=4
Median of column B	0.8745, n=4
Difference: Actual	-0.3275
Difference: Hodges-Lehmann	-0.1889

2. Hipoksia 3 hari Cekok vs Hipoksia 3 hari Kontrol

Table Analyzed	hati cekok-tdk cekok2
Column C	h3c
vs.	vs.
Column D	h3k
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column C,D	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column C	1.042, n=4
Median of column D	2.436, n=4
Difference: Actual	-1.394
Difference: Hodges-Lehmann	-1.352

3. Hpoksia 7 hari Cekok vs Hipoksia 7 hari Kontrol

Table Analyzed	hati cekok-tdk cekok2
Column E	h7c
vs.	vs.
Column F	h7k
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column E,F	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column E	1.706, n=4
Median of column F	2.449, n=4
Difference: Actual	-0.7431
Difference: Hodges-Lehmann	-0.806

4. Hipoksia 14 hari Cekok vs Hipoksia 14 hari Kontrol

Table Analyzed	hati cekok-tdk cekok2
Column G	h14c
vs.	vs.
Column H	h14k
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column G,H	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column G	1.819, n=4
Median of column H	3.721, n=4
Difference: Actual	-1.902
Difference: Hodges-Lehmann	-1.898

Lampiran 11. Uji Man - Whitney untuk Perbandingan Kadar MDA Darah Tikus yang Dicekok ekstrak Berenuk dan Tidak

1. Nomroskia Cekok vs Normoskia Kontrol

Table Analyzed	darah cekok-tdk cekok 2
Column A	nc
vs.	vs.
Column B	nk
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.228, n=4
Median of column B	0.2784, n=4
Difference: Actual	-0.05038
Difference: Hodges-Lehmann	-0.05038

2. Hipoksia 3 hari Cekok vs Hipoksia 3 hari Kontrol

Table Analyzed	darah cekok-tdk cekok 2
Column C	h3c
vs.	vs.
Column D	h3k
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed

Sum of ranks in column C,D	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column C	0.4085, n=4
Median of column D	0.5051, n=4
Difference: Actual	-0.09656
Difference: Hodges-Lehmann	-0.09026

3. Hipoksia 7 hari Cekok vs Hipoksia 7 hari Kontrol

Table Analyzed	darah cekok-tdk cekok 2
Column E	h7c
vs.	vs.
Column F	h7k
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column E,F	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column E	0.5345, n=4
Median of column F	0.631, n=4
Difference: Actual	-0.09656
Difference: Hodges-Lehmann	-0.1008

4. Hipoksia 14 hari Cekok vs Hipoksia 14 hari Kontrol

Table Analyzed	darah cekok-tdk cekok 2
Column G	h14c

vs.	vs.
Column H	h14k
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column G,H	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column G	0.7612, n=4
Median of column H	0.8787, n=4
Difference: Actual	-0.1175
Difference: Hodges-Lehmann	-0.1175

Lampiran 12. Korelasi Kadar MDA Hati Cekok dan Darah Cekok





Pearson r

r	0.9712
95% confidence interval	0.1512 to 0.9994
R squared	0.9432
P value	
P (two-tailed)	0.0288
P value summary	*
Significant? (alpha = 0.05)	Yes
Number of XY Pairs	4

Lampiran 13. Korelasi Kadar MDA Hati Tidak Cekok dan Darah Tidak Cekok

Pearson r	
r	0.9836
95% confidence interval	0.4106 to 0.9997
R squared	0.9674
P value	
P (two-tailed)	0.0164
P value summary	*
Significant? (alpha = 0.05)	Yes
Number of XY Pairs	4

Lampiran 14. Identifikasi Buah

	LEMBAGA ILMU PENGETAHUAN INDONESIA (INDONESIAN INSTITUTE OF SCIENCES) PUSAT PENELITIAN BIOLOGI (RESEARCH CENTER FOR BIOLOGY) Cibinong Science Center, Jl. Raya Jakarta - Bogor KM. 46 Cibinong 16911 Telp. (+62 21) 87907636 - 87907604, Fax. 87907612 Website : www.biologi.lipi.go.id	  
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Cibinong, Agustus 2017

Nomor : 1986/IPH.1.01/IF.07/VIII/2017
Lampiran : -
Perihal : Hasil identifikasi/determinasi Tumbuhan


Kepada Yth.
Bpk./Ibu/Sdr(i). **Alfred H. Alphanto**
Univ. TARUMANAGARA
Jl. Letjen 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. Kol.	Jenis	Suku
1	Berenuk	<i>Crescentia cujete</i> L.	Bignoniaceae

Demikian, semoga berguna bagi Saudara.


Kepala Bidang Botani
Pusat Penelitian Biologi-LIPI,
Dr. Joenj Setijo Rahajoe
NIP. 196706241993032004

Lampiran 15. DAFTAR RIWAYAT HIDUP

DAFTAR RIWAYAT HIDUP

A. DATA PRIBADI

1. Nama : Antonius Hermanto Saputra
2. NIM : 405150097
3. Jenis Kelamin : Laki - laki
4. Tempat, Tanggal Lahir : Bekasi, 8 Juni 1997
5. Agama : Katolik
6. Status : Belum Menikah
7. Pendidikan Terakhir : SMA
8. Alamat : Perumahan Duta Harapan blok E8 No. 29
Bekasi, Jawa Barat.
9. No. Telepon : 08174930529
10. Email : Antoniushermanto88@Yahoo.com

B. DATA PENDIDIKAN

1. 2003 – 2009 : SD Mutiara 17 Agustus
2. 2009 – 2012 : SMP Marsudirini Bekasi
3. 2012 – 2015 : SMA Marsudirini Bekasi