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KOMISI ETIK PENELITIAN KESEHATAN (KEPK)
FAKULTAS KEDOKTERAN UNIVERSITAS DIPONEGORO
DAN RSUP dr KARIADI SEMARANG
Sekretariat : Kantor Dekanat FK Undip Lt.3
Jl. Dr. Soetomo 18. Semarang 50231
Telp/Fax. 024-8318350

RSUP Dr. KARIADI

ETHICAL CLEARANCE

No.300 /EC/FK-RSDK/2014

Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Universitas Diponegoro- RSUP Dr. Kariadi Semarang, setelah membaca dan menelaah Usulan Penelitian dengan judul :

PERBEDAAN EFEK PEMBERIAN *PRELOAD* HES 200 KD DAN RINGER LAKTAT TERHADAP HIPOTENSI PASCA ANESTESI SPINAL PASIEN *SECTIO CESAREA*

Peneliti Utama	:	Fithria Nurunisa
Pembimbing	:	dr. Himawan Sasongko, Sp.An, M.Si.Med. KNA
Penelitian	:	Dilaksanakan di Instalasi Rekam Medik RSUP Dr.Kariadi Semarang

Setuju untuk dilaksanakan, dengan memperhatikan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki 1975, yang diamended di Seoul 2008 dan Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI 2011

Peneliti harus melampirkan 2 kopi lembar Informed consent yang telah disetujui dan ditandatangani oleh peserta penelitian pada laporan penelitian.
Peneliti diwajibkan menyerahkan :
- Laporan kemajuan penelitian (clinical Trial)
- Laporan kejadian efek samping jika ada
- Laporan ke KEPK jika penelitian sudah selesai & dilampiri Abstrak Penelitian.

Semarang, 20 MAY 2014
Komisi Etik Penelitian Kesehatan
Fakultas Kedokteran Undip-RSUP Dr. Kariadi
Ketua

Prof. Dr. dr. Suprihati, M.Sc, Sp.THT-KL(K)
NIP. 19500621197703 2 001

KEMENTERIAN KESEHATAN RI
DIREKTORAT JENDERAL BINA UPAYA KESEHATAN
RUMAH SAKIT UMUM PUSAT DOKTER KARIADI
Jalan Dr. Sutomo No. 16 Semarang, PO BOX 1104
Telepon : (024) 8413993, 8413476, 8413764 Fax : (024) 8318617
Website : http://www.rskariadi.com email : rsdk@indosat.net.id ; rsdk@rskariadi.com

RSUP Dr. KARIADI
Sehat Hemat Sehat

Nomor : DL.00.02 / I.II / 1399 / 2014
Lamp. : –
Perihal : *Penelitian*

28 MAY 2014

Yth. Dekan Fakultas Kedokteran
Universitas Diponegoro
Jl. Prof. H. Soedarto, SH. Tembalang
di –
SEMARANG

Menindak lanjuti surat Saudara No.1522/UN7.3.4/D1/PP/2014 tanggal 20 Maret 2014 perihal Permohonan ijin penelitian dan pengambilan data rekam medis, dengan ini kami sampaikan bahwa :

Nama peneliti	:	Fithria Nurunisa
Judul penelitian	:	Perbedaan Efek Pemberian Preload HES 200 KD dan Ringer Laktat terhadap Hipotensi Pasca Anestesi Spinal Pasien Sectio Cesarea.
Pembimbing	:	dr. Hemawan Sasongko, Sp.An, M.Si.Med, KNA
DPJP	:	–

pada prinsipnya diizinkan untuk melaksanakan Penelitian di Instalasi Rekam Medis RSUP Dr. Kariadi dengan ketentuan :

- Waktu pelaksanaan penelitian dapat dilakukan sewaktu hari kerja selama ±2 bulan, dengan jumlah sampel yang dibutuhkan adalah ±44 CM (tahun 2012 – 2014)
- Tidak mengganggu pelayanan.
- Pihak Institusi dan mahasiswa dapat mentaati peraturan serta tata-tertib yang berlaku di RSUP Dr. Kariadi.
- Memberikan laporan hasil penelitian kepada RSUP Dr. Kariadi dan Bagian/Instalasi tempat penelitian dilaksanakan.

Atas perhatian dan kerjasama Saudara diucapkan terima kasih.

An. Direktur Utama
Direktur SDM dan Pendidikan

Dr. Agus Suryanto, Sp.PD-KP, MARS
NIP. 19610818 198812 1 001

Tembusan Yth :
1. Direktur Utama RSUP Dr. Kariadi (*sebagai laporan*)
2. Ka.Inst. Rekam Medis
3. Ka.Inst. Diklat
4. Yang bersangkutan

Lampiran 3

SPREADSHEET DATA

No.	Kelompok	Umur	Status ASA	TDS Pre	TDD Pre	TDS Post	TDD Post
1	2	28	II	130	80	120	80
2	2	29	II	160	90	150	90
3	2	37	II	150	90	110	80
4	2	28	II	120	80	120	70
5	2	25	II	160	90	150	90
6	2	28	I	130	70	100	70
7	2	38	II	116	70	114	60
8	2	39	II	130	80	120	80
9	2	34	I	130	80	119	71
10	2	25	I	124	62	100	60
11	2	35	II	160	90	150	82
12	2	25	II	140	80	120	80
13	2	33	I	130	80	120	80
14	2	34	I	134	74	120	70
15	2	35	II	120	70	110	70
16	2	23	II	129	84	120	80
17	2	32	II	140	90	120	70
18	2	34	II	130	85	120	80
19	2	22	II	128	78	120	70
20	2	23	I	122	76	110	70
21	2	24	I	123	86	110	70
22	2	22	II	122	78	122	66
23	1	25	II	120	70	122	62
24	1	31	II	120	70	110	70
25	1	28	I	100	60	120	80
26	1	30	II	150	90	150	90

27	1	26	I	160	110	140	90
28	1	32	I	114	60	110	80
29	1	37	I	110	70	120	70
30	1	25	I	128	77	120	80
31	1	35	I	120	80	120	80
32	1	25	I	110	70	110	70
33	1	26	II	110	70	110	70
34	1	26	II	120	80	110	80
35	1	24	II	120	80	116	67
36	1	31	I	125	70	120	80
37	1	37	II	124	72	128	73
38	1	27	II	120	70	110	80
39	1	24	I	135	79	120	66
40	1	32	I	160	80	150	90
41	1	24	I	110	70	119	67
42	1	38	II	132	82	120	80
43	1	25	I	140	70	141	76
44	1	25	I	120	43	120	70

Lampiran 4

HASIL OUTPUT SPSS

Analisis Deskriptif

Case Summaries

Jenis cairan		Tekanan Darah Sistolik Pre Anestesi Spinal	Tekanan Darah Diastolik Pre Anestesi Spinal	Tekanan Darah Sistolik Post Anestesi Spinal	Tekanan Darah Diastolik Post Anestesi Spinal
RL	N	22	22	22	22
	Mean	133,09	80,14	120,23	74,50
	Std. Deviation	13,309	7,748	13,697	8,210
	Median	130,00	80,00	120,00	70,50
	Minimum	116	62	100	60
	Maximum	160	90	150	90
HES 400 kD	N	22	22	22	22
	Mean	124,91	73,77	122,09	75,95
	Std. Deviation	15,856	12,524	12,402	8,056
	Median	120,00	70,00	120,00	78,00
	Minimum	100	43	110	62
	Maximum	160	110	150	90
Total	N	44	44	44	44
	Mean	129,00	76,95	121,16	75,23
	Std. Deviation	15,047	10,783	12,947	8,072
	Median	126,50	78,50	120,00	74,50
	Minimum	100	43	100	60
	Maximum	160	110	150	90

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Jenis cairan	Statistic	df	Sig.	Statistic	df	Sig.
Tekanan Darah Sistolik Pre Anestesi Spinal	RL	,274	22	,000	,845	22	,003
	HES 400 kD	,212	22	,011	,892	22	,021
Tekanan Darah Diastolik Pre Anestesi Spinal	RL	,143	22	,200*	,925	22	,097
	HES 400 kD	,245	22	,001	,876	22	,010
Tekanan Darah Sistolik Post Anestesi Spinal	RL	,325	22	,000	,785	22	,000
	HES 400 kD	,294	22	,000	,799	22	,000
Tekanan Darah Diastolik Post Anestesi Spinal	RL	,211	22	,012	,902	22	,033
	HES 400 kD	,192	22	,034	,912	22	,053

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

a. Lilliefors Significance Correction

Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Jenis Cairan * Kejadian_ Hipotensi_Post	44	100,0%	0	,0%	44	100,0%

Jenis Cairan * Kejadian_Hipotensi_Post Crosstabulation

			Kejadian_Hipotensi_Post		
			Tidak Hipotensi	Hipotensi	Total
Jenis Cairan	HES 200kD	Count	22	0	22
		% within Jenis Cairan	100,0%	,0%	100,0%
		% within Kejadian_Hipotensi_Post	52,4%	,0%	50,0%
		% of Total	50,0%	,0%	50,0%
	RL	Count	20	2	22
		% within Jenis Cairan	90,9%	9,1%	100,0%
		% within Kejadian_Hipotensi_Post	47,6%	100,0%	50,0%
		% of Total	45,5%	4,5%	50,0%
Total		Count	42	2	44
		% within Jenis Cairan	95,5%	4,5%	100,0%
		% within Kejadian_Hipotensi_Post	100,0%	100,0%	100,0%
		% of Total	95,5%	4,5%	100,0%

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	2,095[b]	1	,148		
Continuity Correction[a]	,524	1	,469		
Likelihood Ratio	2,868	1	,090		
Fisher's Exact Test				,488	,244
Linear-by-Linear Association	2,048	1	,152		
N of Valid Cases	44				

a. Computed only for a 2x2 table

b. 2 cells (50,0%) have expected count less than 5. The minimum expected count is 1,00.

Symmetric Measures

		Value	Approx. Sig.
Nominal by Nominal	Contingency Coefficient	,213	,148
N of Valid Cases		44	

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

Explore

Umur

Case Summaries

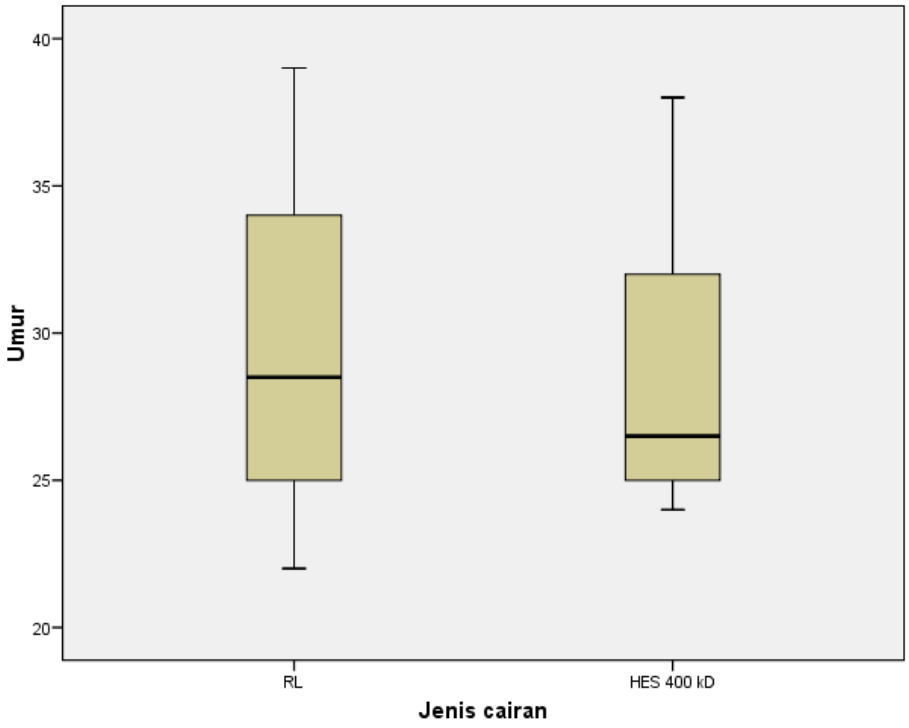
Umur

Jenis cairan	N	Mean	Std. Deviation	Median	Minimum	Maximum
RL	22	29,68	5,575	28,50	22	39
HES 200 kD	22	28,77	4,669	26,50	24	38
Total	44	29,23	5,103	28,00	22	39

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Jenis cairan	Statistic	df	Sig.	Statistic	df	Sig.
Umur	RL	,163	22	,132	,922	22	,082
	HES 200 kD	,224	22	,006	,855	22	,004

a. Lilliefors Significance Correction


40
35
30
25
20
Umur
RL
HES 400 kD
Jenis cairan

NPar Tests

Mann-Whitney Test

Ranks

	Jenis cairan	N	Mean Rank	Sum of Ranks
Umur	RL	22	23,23	511,00
	HES 200 kD	22	21,77	479,00
	Total	44		

Test Statistics[a]

	Umur
Mann-Whitney U	226,000
Wilcoxon W	479,000
Z	-,377
Asymp. Sig. (2-tailed)	,706

a. Grouping Variable: Jenis cairan

Crosstabs

ASA * Jenis cairan Crosstabulation

			Jenis cairan		
			RL	HES 200 kD	Total
ASA	I	Count	7	13	20
		Expected Count	10,0	10,0	20,0
		% within Jenis cairan	31,8%	59,1%	45,5%
		% of Total	15,9%	29,5%	45,5%
	II	Count	15	9	24
		Expected Count	12,0	12,0	24,0
		% within Jenis cairan	68,2%	40,9%	54,5%
		% of Total	34,1%	20,5%	54,5%
Total		Count	22	22	44
		Expected Count	22,0	22,0	44,0
		% within Jenis cairan	100,0%	100,0%	100,0%
		% of Total	50,0%	50,0%	100,0%

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	3,300[b]	1	,069		
Continuity Correction[a]	2,292	1	,130		
Likelihood Ratio	3,344	1	,067		
Fisher's Exact Test				,129	,065
Linear-by-Linear Association	3,225	1	,073		
N of Valid Cases	44				

a. Computed only for a 2x2 table

b. 0 cells (,0%) have expected count less than 5. The minimum expected count is 10,00.

Explore

Jenis cairan

Case Summaries

Jenis cairan		Tekanan Darah Sistolik Pre Anestesi Spinal	Tekanan Darah Diastolik Pre Anestesi Spinal	Tekanan Darah Sistolik Post Anestesi Spinal	Tekanan Darah Diastolik Post Anestesi Spinal
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	Minimum	100	43	110	62
	Maximum	160	110	150	90
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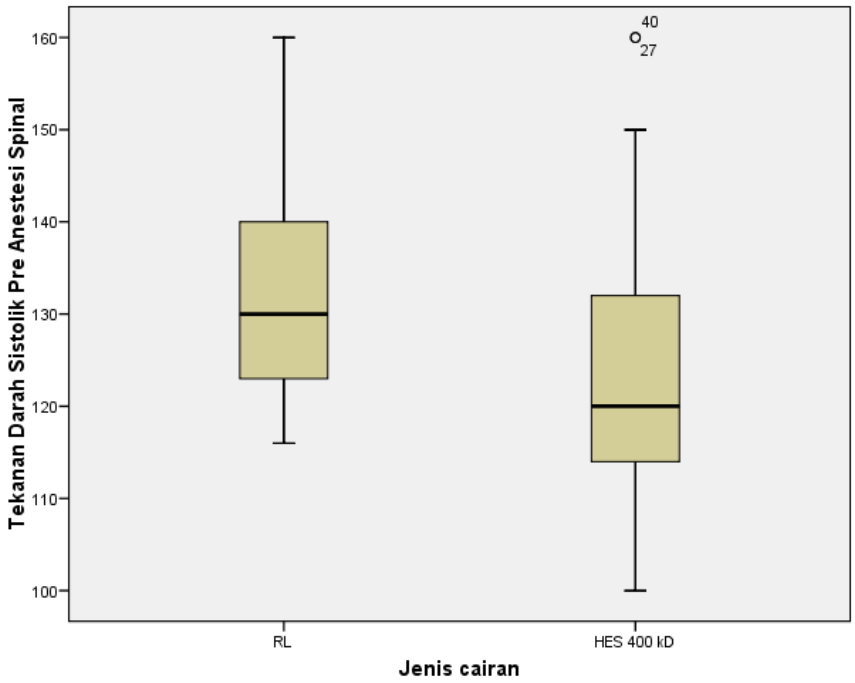
Tekanan Darah Diastolik Pre Anestesi Spinal	RL	,143	22	,200 *	,925	22	,097
	HES 200 kD	,245	22	,001	,876	22	,010
Tekanan Darah Sistolik Post Anestesi Spinal	RL	,325	22	,000	,785	22	,000
	HES 200 kD	,294	22	,000	,799	22	,000
Tekanan Darah Diastolik Post Anestesi Spinal	RL	,211	22	,012	,902	22	,033
	HES 200 kD	,192	22	,034	,912	22	,053

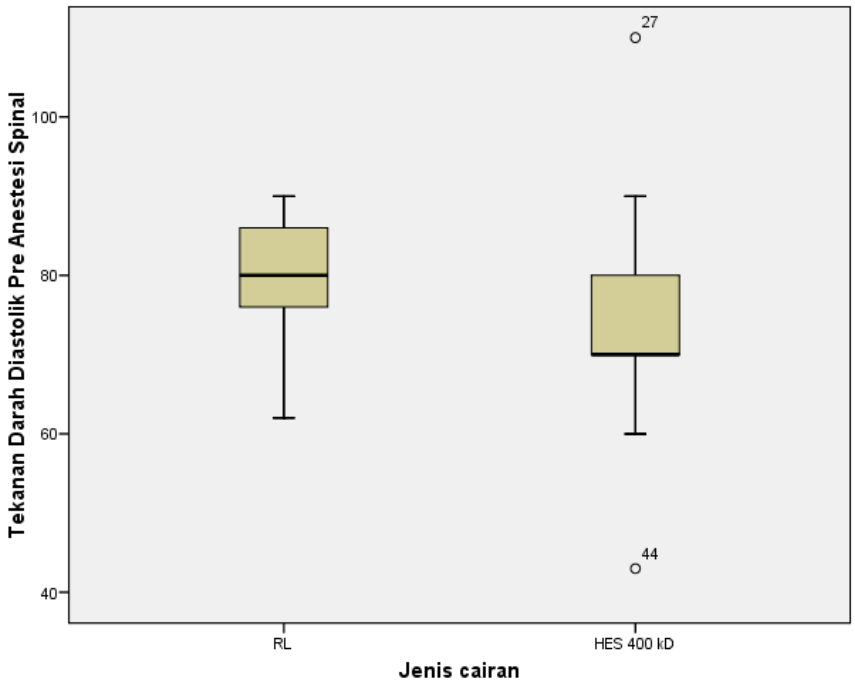
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

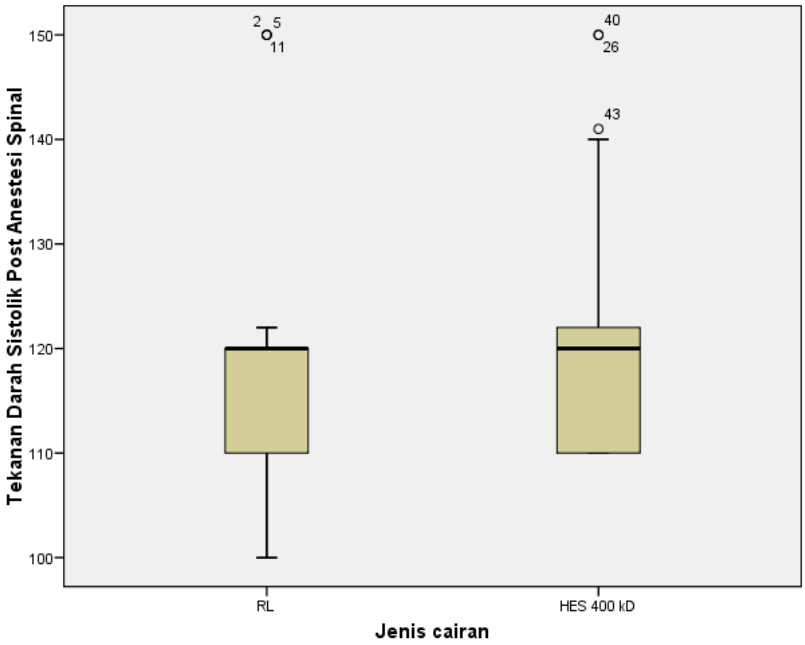
Tekanan Darah Sistolik Pre Anestesi Spinal



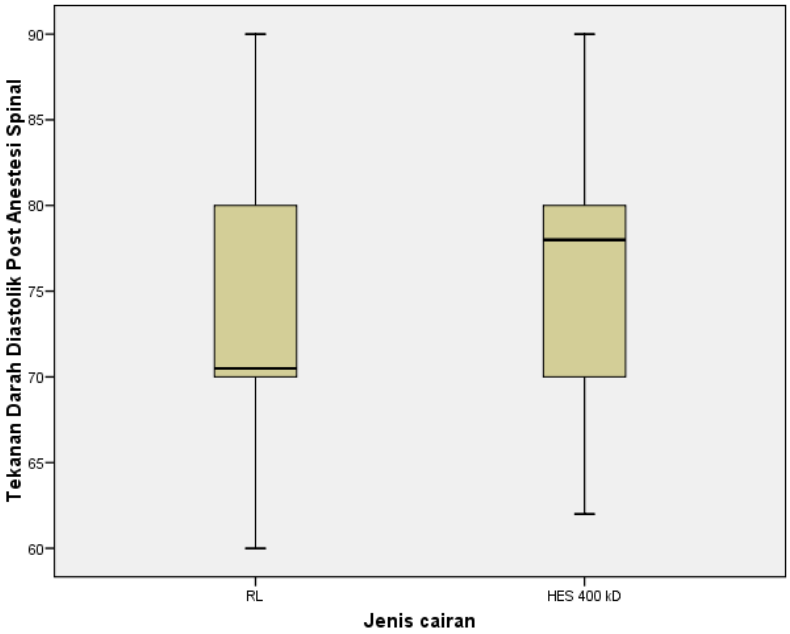
Tekanan Darah Diastolik Pre Anestesi Spinal



Tekanan Darah Sistolik Post Anestesi Spinal



Tekanan Darah Diastolik Post Anestesi Spinal



Pre Anestesi Spinal

NPar Tests

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
Tekanan Darah Sistolik Post Anestesi Spinal - Tekanan Darah Sistolik Pre Anestesi Spinal	Negative Ranks	20[a]	10,50	210,00
	Positive Ranks	0[b]	,00	,00
	Ties	2[c]		
	Total	22		
Tekanan Darah Diastolik Post Anestesi Spinal - Tekanan Darah Diastolik Pre Anestesi Spinal	Negative Ranks	14[d]	7,50	105,00
	Positive Ranks	0[e]	,00	,00
	Ties	8[f]		
	Total	22		

a. Tekanan Darah Sistolik Post Anestesi Spinal < Tekanan Darah Sistolik Pre Anestesi Spinal

b. Tekanan Darah Sistolik Post Anestesi Spinal > Tekanan Darah Sistolik Pre Anestesi Spinal

c. Tekanan Darah Sistolik Post Anestesi Spinal = Tekanan Darah Sistolik Pre Anestesi Spinal

d. Tekanan Darah Diastolik Post Anestesi Spinal < Tekanan Darah Diastolik Pre Anestesi Spinal

e. Tekanan Darah Diastolik Post Anestesi Spinal > Tekanan Darah Diastolik Pre Anestesi Spinal

f. Tekanan Darah Diastolik Post Anestesi Spinal = Tekanan Darah Diastolik Pre Anestesi Spinal

Test Statistics[b]

	Tekanan Darah Sistolik Post Anestesi Spinal - Tekanan Darah Sistolik Pre Anestesi Spinal	Tekanan Darah Diastolik Post Anestesi Spinal - Tekanan Darah Diastolik Pre Anestesi Spinal
Z	-3,949[a]	-3,301[a]
Asymp. Sig. (2-tailed)	,000	,001

a. Based on positive ranks.

b. Wilcoxon Signed Ranks Test

Post Anestesi Spinal

NPar Tests

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
Tekanan Darah Sistolik Post Anestesi Spinal - Tekanan Darah Sistolik Pre Anestesi Spinal	Negative Ranks	11[a]	10,05	110,50
	Positive Ranks	6[b]	7,08	42,50
	Ties	5[c]		
	Total	22		
Tekanan Darah Diastolik Post Anestesi Spinal - Tekanan Darah Diastolik Pre Anestesi Spinal	Negative Ranks	6[d]	7,58	45,50
	Positive Ranks	9[e]	8,28	74,50
	Ties	7[f]		
	Total	22		

a. Tekanan Darah Sistolik Post Anestesi Spinal < Tekanan Darah Sistolik Pre Anestesi Spinal

b. Tekanan Darah Sistolik Post Anestesi Spinal > Tekanan Darah Sistolik Pre Anestesi Spinal

c. Tekanan Darah Sistolik Post Anestesi Spinal = Tekanan Darah Sistolik Pre Anestesi Spinal

d. Tekanan Darah Diastolik Post Anestesi Spinal < Tekanan Darah Diastolik Pre Anestesi Spinal

e. Tekanan Darah Diastolik Post Anestesi Spinal > Tekanan Darah Diastolik Pre Anestesi Spinal

f. Tekanan Darah Diastolik Post Anestesi Spinal = Tekanan Darah Diastolik Pre Anestesi Spinal

Test Statistics[c]

	Tekanan Darah Sistolik Post Anestesi Spinal - Tekanan Darah Sistolik Pre Anestesi Spinal	Tekanan Darah Diastolik Post Anestesi Spinal - Tekanan Darah Diastolik Pre Anestesi Spinal
Z	-1,615[a]	-,825[b]
Asymp. Sig. (2-tailed)	,106	,409

a. Based on positive ranks.

b. Based on negative ranks.

c. Wilcoxon Signed Ranks Test

NPar Tests

Mann-Whitney Test

Ranks

	Jenis cairan	N	Mean Rank	Sum of Ranks
Tekanan Darah Sistolik Pre Anestesi Spinal	RL	22	27,02	594,50
	HES 200 kD	22	17,98	395,50
	Total	44		
Tekanan Darah Diastolik Pre Anestesi Spinal	RL	22	27,14	597,00
	HES 200 kD	22	17,86	393,00
	Total	44		
Tekanan Darah Sistolik Post Anestesi Spinal	RL	22	21,73	478,00
	HES 200 kD	22	23,27	512,00
	Total	44		
Tekanan Darah Diastolik Post Anestesi Spinal	RL	22	21,84	480,50
	HES 200 kD	22	23,16	509,50
	Total	44		

Test Statistics[a]

	Tekanan Darah Sistolik Pre Anestesi Spinal	Tekanan Darah Diastolik Pre Anestesi Spinal	Tekanan Darah Sistolik Post Anestesi Spinal	Tekanan Darah Diastolik Post Anestesi Spinal
Mann-Whitney U	142,500	140,000	225,000	227,500
Wilcoxon W	395,500	393,000	478,000	480,500
Z	-2,352	-2,436	-,416	-,352
Asymp. Sig. (2-tailed)	,019	,015	,677	,725

a. Grouping Variable: Jenis cairan

Explore

Jenis cairan

Case Summaries

Jenis cairan		delta TDS	delta TDD
RL	N	22	22
	Mean	-12,86	-5,64
	Std. Deviation	9,296	5,803
	Median	-10,00	-4,50
	Minimum	-40	-20
	Maximum	0	0
HES 200 kD	N	22	22
	Mean	-2,82	2,18
	Std. Deviation	9,043	11,095
	Median	-2,00	,00
	Minimum	-20	-20
	Maximum	20	27
Total	N	44	44
	Mean	-7,84	-1,73
	Std. Deviation	10,390	9,602
	Median	-10,00	,00
	Minimum	-40	-20
	Maximum	20	27

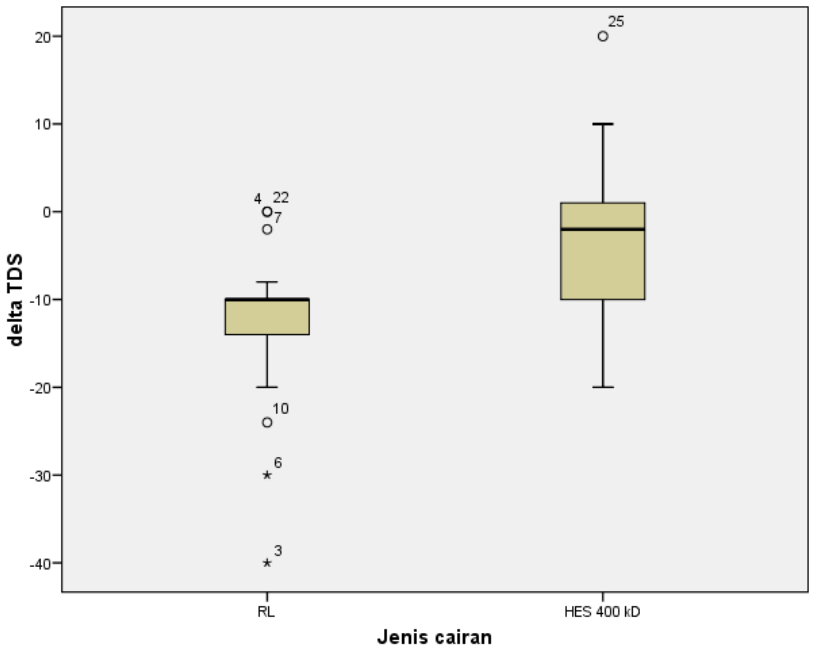
Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Jenis cairan	Statistic	df	Sig.	Statistic	df	Sig.
delta TDS	RL	,224	22	,005	,846	22	,003
	HES 200 kD	,122	22	,200*	,965	22	,587
delta TDD	RL	,198	22	,025	,873	22	,009
	HES 200 kD	,179	22	,065	,942	22	,221

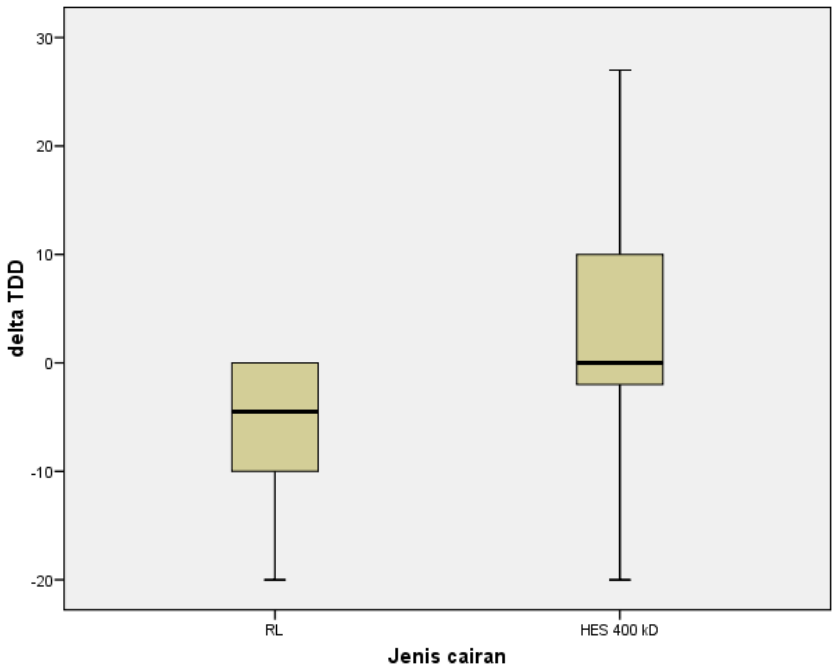
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

delta TDS



delta TDD



NPar Tests

Mann-Whitney Test

Ranks

	Jenis cairan	N	Mean Rank	Sum of Ranks
delta TDS	RL	22	16,18	356,00
	HES 200 kD	22	28,82	634,00
	Total	44		
delta TDD	RL	22	17,00	374,00
	HES 200 kD	22	28,00	616,00
	Total	44		

Test Statistics[a]

	delta TDS	delta TDD
Mann-Whitney U	103,000	121,000
Wilcoxon W	356,000	374,000
Z	-3,304	-2,900
Asymp. Sig. (2-tailed)	,001	,004

a. Grouping Variable: Jenis cairan

Tabel Sebaran Umur dan Status ASA berdasarkan Jenis Cairan

Variabel	Jenis cairan		p
	RL	HES 200 kD	
Umur	29,68 ± 5,575	28,77 ± 4,669	0,706€
ASA			
I	7 (31,8%)	13 (59,1%)	0,069
II	15 (68,2%)	9 (40,9%)	

Keterangan :
€ Mann Whitney

Dari tabel sebaran umur dan status ASA berdasarkan jenis cairan didapatkan untuk umur dan ASA mempunyai p > 0,05 maka sebaran data merata atau homogen.

Tabel Normalitas Tekanan Darah berdasarkan Jenis Cairan

Tekanan Darah	Jenis Cairan	P
TDS pre	RL	0,003
	HES 200 kD	0,021
TDS post	RL	0,097
	HES 200 kD	0,010
TDD pre	RL	0,000
	HES 200 kD	0,000
TDD post	RL	0,033
	HES 200 kD	0,053

Dari tabel normalitas dengan menggunakan uji Shapiro Wilk didapatkan nilai p < 0,05 kecuali pada TDS post kelompok cairan RL dan TDD post pada kelompok cairan HES 200 kD. Jadi dapat disimpulkan data berdistribusi tidak normal, sehingga untuk uji selanjutnya dengan menggunakan uji non parametrik Wilcoxon untuk uji beda berpasangan dan uji Mann Whitney untuk uji beda tidak berpasangan.

Tabel uji beda berpasangan dan tidak berpasangan pada tekanan darah pre dan post berdasarkan jenis cairan

Tekanan Darah	Jenis cairan		p€
	RL	HES 200 kD	
TDS			
Pre	133,09 ± 13,309	124,91 ± 15,856	0,019*
Post	120,23 ± 13,697	122,09 ± 12,402	0,015*
p‡	0,000*	0,106	
TDD			
Pre	80,14 ± 7,748	73,77 ± 12,524	0,677
Post	74,50 ± 8,210	75,95 ± 8,056	0,725
p‡	0,001*	0,409	

Keterangan :
* Signifikan p < 0,05
€ Mann Whitney
‡ Wilcoxon

Dari tabel di atas pada variabel TDS dan TDD pada jenis cairan RL sebelum dan sesudah Anestesi Spinal mempunyai nilai p < 0,05 atau signifikan sedangkan pada cairan HES 200 kD mempunyai nilai p > 0,05 atau tidak signifikan. Sedangkan pada kelompok TDS dan TDD pre antara jenis cairan mempunyai nilai p < 0,05, sehingga untuk uji hipotesis digunakan uji selisih antara tekanan darah sesudah dan sebelum anestesi spinal.

Tabel Normalitas dari selisih tekanan darah berdasarkan jenis cairan

Tekanan Darah	Jenis Cairan	p
Δ TDS	RL	0,003
	HES 200 kD	0,567
Δ TDD	RL	0,009
	HES 200 kD	0,221

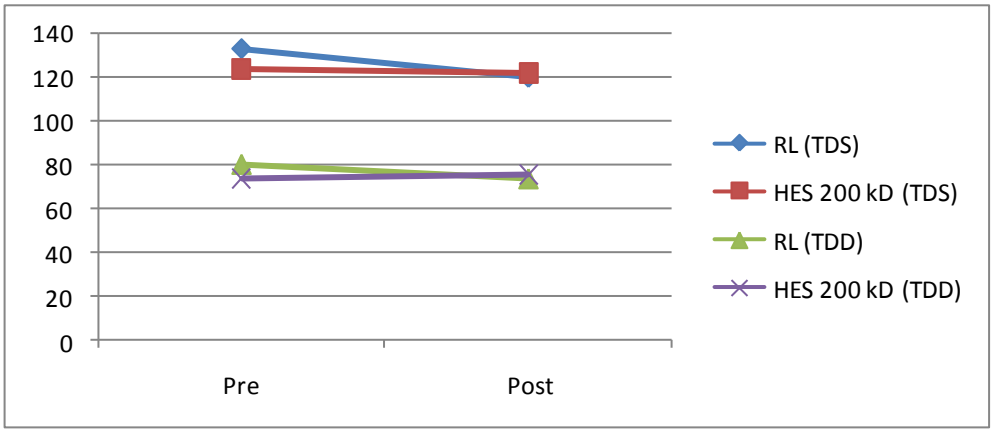
Dari normalitas Shapiro Wilk didapatkan untuk jenis cairan RL dari kedua selisih mempunyai nilai p < 0,05 atau berdistribusi data tidak normal, sehingga untuk uji selanjutnya digunakan uji Mann Whitney.

Tabel uji beda selisih tekanan darah berdasarkan jenis cairan

Tekanan Darah	Jenis cairan		p
	RL	HES 200 kD	
Δ TDS	-12,86 ± 9,296	-2,82 ± 9,043	0,001*
Δ TDD	-5,64 ± 5,803	2,18 ± 11,095	0,004*

Keterangan :
* Signifikan p < 0,05

Dari tabel uji beda di atas didapatkan dari selisih TDS dan TDD berdasarkan jenis cairan nilai p < 0,05 atau signifikan. Sehingga dapat disimpulkan terdapat perbedaan bermakna penurunan tekanan darah RL lebih baik dibandingkan HES 200 kD.



Lampiran 5

DOKUMENTASI

Lampiran 6

BIODATA MAHASISWA

Identitas

Nama	: Fithria Nurunisa
NIM	: 22010110110123
Tempat/tanggal lahir	: Kerinci/5 Juni 1992
Jenis kelamin	: Perempuan
Alamat	: Randukuning GG.V no.250 Pati
Nomor Telepon	: (0295) 382362
Nomor HP	: 085641913393
e-mail	: v3a_cyberspace@yahoo.co.id

Riwayat Pendidikan Formal

1. SD	:	SDN Malaka Jaya 07 Pagi Jakarta Timur
		SDN Pati Kidul 01 (2004)
2. SMP	:	SMP Negeri 03 Pati (2007)
3. SMA	:	SMA Negeri 01 Pati (2010)
4. FK UNDIP	:	Masuk tahun 2010