

Lampiran 1

PERSETUJUAN KOMISI ETIK PENELITIAN



Lampiran 2

LEMBARAN PENJELASAN KEPADA CALON SUBJEK

Assalamualaikum ww. Salam sejahtera

Saya Dr. Ahsan Tanio Daulay, saat ini saya sedang menjalani pendidikan dokter spesialis Penyakit dalam di Fakultas Kedokteran Universitas Sumatera Utara. Pada hari ini saya ingin menjelaskan kepada bapak/ibu tentang penelitian yang akan saya lakukan. Adapun judul penelitian saya adalah **“HUBUNGAN FUNGSI TROMBOSIT DENGAN JUMLAH TROMBOSIT PADA PASIEN PENYAKIT GINJAL KRONIS TAHAP AKHIR YANG BELUM DIHEMODIALISIS.”**

Tujuan penelitian ini dilakukan untuk menganalisa dan melihat hubungan antara fungsi trombosit dengan hitung trombosit pada pasien penyakit ginjal kronis yang belum dilakukan hemodialisis, yang mana fungsi trombosit ini untuk menilai kemungkinan terjadinya perdarahan terhadap bapak/ibu seperti perdarahan saluran cerna, mimisan, dan lain sebagainya.

Penelitian ini dilakukan dengan pengambilan darah untuk pemeriksaan: darah rutin (salah satu kegunaannya untuk melihat jumlah trombosit bapak/ibu). Tes fungsi ginjal (ureum dan kreatinin) untuk melihat fungsi ginjal bapak/ibu, serta agregasi trombosit (untuk melihat kemampuan trombosit bapak/ibu menggumpal). Selain pemeriksaan tersebut juga diperiksakan faktor-faktor pembekuan darah seperti PT, aPTT, dan TT. Bapak/ibu akan kami periksakan masa perdarahan dengan cara menusukkan jarum sedalam ± 3 mm pada pergelangan tangan dengan tujuan melihat kecepatan pembekuan darah bapak/ibu.

Keikutsertaan bapak/ibu adalah suka rela. Bila sewaktu-waktu bapak/ibu sebagai pihak yang diteliti merasa dirugikan oleh pihak peneliti maka bapak/ibu berhak membatalkan persetujuan ini tanpa menuntut ganti kerugian. Bila keterangan yang saya berikan masih belum jelas atau ada hal-hal yang belum jelas, bapak/ibu dapat langsung bertanya kepada saya ke no: 082165382603

Wassalam

(Dr Ahsan Tanio Daulay)

Lampiran 3

SURAT PERSETUJUAN BERSEDIA IKUT PENELITIAN

Saya yang bertanda tangan di bawah ini:

Nama :
Umur :
Jenis Kelamin :
Alamat :
No telp :

Setelah mendapat penjelasan dari peneliti tentang kebaikan dan keburukan prosedur penelitian ini, menyatakan bersedia untuk ikut dalam penelitian tentang: **“HUBUNGAN FUNGSI TROMBOSIT DENGAN JUMLAH TROMBOSIT PADA PASIEN PENYAKIT GINJAL KRONIS TAHAP AKHIR YANG BELUM DIHEMODIALISIS”**

Bila sewaktu-waktu saya sebagai pihak yang diteliti merasa dirugikan oleh pihak peneliti maka saya berhak membatalkan persetujuan ini tanpa menuntut ganti kerugian.

Demikian surat pernyataan bersedia ikut dalam penelitian ini saya perbuat untuk dapat digunakan seperlunya.

Medan, 201..

(.....)

Lampiran 4

HASIL STATISTIK

Frequency Table

Jenis kelamin

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	L	19	61.3	61.3	61.3
	P	12	38.7	38.7	100.0
	Total	31	100.0	100.0	

Kategori Trombosit

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	trombositopenia	6	19.4	19.4	19.4
	tidak trombositopenia	25	80.6	80.6	100.0
	Total	31	100.0	100.0	

BT Memanjang

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ya	6	19.4	19.4	19.4
	tidak	25	80.6	80.6	100.0
	Total	31	100.0	100.0	

Agregasi Trombosit

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Hiperagregasi	8	25.8	25.8	25.8
	Hipoagregasi	6	19.4	19.4	45.2
	Normoagregasi	17	54.8	54.8	100.0
	Total	31	100.0	100.0	

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
umur	31	100.0%	0	.0%	31	100.0%
bb	31	100.0%	0	.0%	31	100.0%
hb	31	100.0%	0	.0%	31	100.0%
leukosit	31	100.0%	0	.0%	31	100.0%
trombosit	31	100.0%	0	.0%	31	100.0%
r_PT	31	100.0%	0	.0%	31	100.0%
r_aPTT	31	100.0%	0	.0%	31	100.0%
ureum	31	100.0%	0	.0%	31	100.0%
kreatinin	31	100.0%	0	.0%	31	100.0%
LFG	31	100.0%	0	.0%	31	100.0%
SGOT	31	100.0%	0	.0%	31	100.0%
SGPT	31	100.0%	0	.0%	31	100.0%

Descriptives

		Statistic	Std. Error	
umur	Mean	50.71	1.959	
	95% Confidence Interval for Mean	Lower Bound	46.71	
		Upper Bound	54.71	
	5% Trimmed Mean	51.18		
	Median	52.00		
	Variance	119.013		
	Std. Deviation	10.909		
	Minimum	21		
	Maximum	72		
	Range	51		
	Interquartile Range	11		
	Skewness	-.752	.421	
	Kurtosis	1.057	.821	
	berat badan	Mean	61.19	1.724
95% Confidence Interval for Mean		Lower Bound	57.67	
		Upper Bound	64.71	
5% Trimmed Mean		60.49		
Median		60.00		
Variance		92.095		
Std. Deviation		9.597		
Minimum		45		
Maximum		90		
Range		45		
Interquartile Range		13		
Skewness		1.256	.421	
Kurtosis		2.522	.821	
hb		Mean	7.758	.3250
	95% Confidence Interval for Mean	Lower Bound	7.094	
		Upper Bound	8.422	

	5% Trimmed Mean		7.726	
	Median		7.300	
	Variance		3.275	
	Std. Deviation		1.8096	
	Minimum		4.6	
	Maximum		11.6	
	Range		7.0	
	Interquartile Range		2.0	
	Skewness		.517	.421
	Kurtosis		-.354	.821
leukosit	Mean		9028.71	633.678
	95% Confidence Interval for	Lower Bound	7734.57	
	Mean	Upper Bound	10322.85	
	5% Trimmed Mean		8715.59	
	Median		9170.00	
	Variance		1.245E7	
	Std. Deviation		3528.170	
	Minimum		3870	
	Maximum		23560	
	Range		19690	
	Interquartile Range		3190	
	Skewness		2.170	.421
	Kurtosis		9.022	.821
trombosit	Mean		250548.39	17649.383
	95% Confidence Interval for	Lower Bound	214503.54	
	Mean	Upper Bound	286593.24	
	5% Trimmed Mean		247700.72	
	Median		232000.00	
	Variance		9.657E9	
	Std. Deviation		98267.607	
	Minimum		95000	
	Maximum		457000	

	Range		362000	
	Interquartile Range		158000	
	Skewness		.418	.421
	Kurtosis		-.610	.821
ureum	Mean		181.958	13.8623
	95% Confidence Interval for Mean	Lower Bound	153.647	
		Upper Bound	210.269	
	5% Trimmed Mean		174.384	
	Median		174.200	
	Variance		5957.094	
	Std. Deviation		77.1822	
	Minimum		77.9	
	Maximum		477.0	
	Range		399.1	
	Interquartile Range		67.8	
	Skewness		1.881	.421
	Kurtosis		6.330	.821
kreatinin	Mean		11.1435	1.23369
	95% Confidence Interval for Mean	Lower Bound	8.6240	
		Upper Bound	13.6631	
	5% Trimmed Mean		10.4305	
	Median		9.1600	
	Variance		47.182	
	Std. Deviation		6.86890	
	Minimum		2.83	
	Maximum		38.47	
	Range		35.64	
	Interquartile Range		7.27	
	Skewness		2.248	.421
	Kurtosis		7.429	.821
LFG	Mean		6.3732	.69834
		Lower Bound	4.9470	

	95% Confidence Interval for Mean	Upper Bound	7.7994	
	5% Trimmed Mean		6.1584	
	Median		5.7300	
	Variance		15.118	
	Std. Deviation		3.88820	
	Minimum		1.04	
	Maximum		15.95	
	Range		14.91	
	Interquartile Range		3.97	
	Skewness		.956	.421
	Kurtosis		.400	.821
SGOT	Mean		24.16	2.976
	95% Confidence Interval for Mean	Lower Bound	18.08	
		Upper Bound	30.24	
	5% Trimmed Mean		22.29	
	Median		17.00	
	Variance		274.606	
	Std. Deviation		16.571	
	Minimum		10	
	Maximum		77	
	Range		67	
	Interquartile Range		15	
	Skewness		1.787	.421
	Kurtosis		2.764	.821
SGPT	Mean		21.35	3.323
	95% Confidence Interval for Mean	Lower Bound	14.57	
		Upper Bound	28.14	
	5% Trimmed Mean		18.87	
	Median		14.00	
	Variance		342.370	
	Std. Deviation		18.503	

Minimum	7	
Maximum	96	
Range	89	
Interquartile Range	14	
Skewness	2.608	.421
Kurtosis	8.178	.821

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
umur	.141	31	.119	.958	31	.250
bb	.144	31	.104	.901	31	.008
hb	.148	31	.080	.951	31	.168
leukosit	.182	31	.011	.802	31	.000
trombosit	.107	31	.200*	.961	31	.319
ureum	.152	31	.065	.847	31	.000
kreatinin	.177	31	.014	.804	31	.000
LFG	.174	31	.018	.915	31	.017
sgot	.267	31	.000	.758	31	.000
sgpt	.259	31	.000	.675	31	.000

a. Lilliefors Significance Correction

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

Nonparametric Correlations

			Correlations				
			Trombosit	Ureum	Kreatinin	LFG	BT
Spearman's rho	Trombosit	Correlation Coefficient	1.000	-.124	.040	-.050	-.023
		Sig. (2-tailed)	.	.506	.829	.789	.902
		N	31	31	31	31	31
	Ureum	Correlation Coefficient	-.124	1.000	.757**	-.768**	.195
		Sig. (2-tailed)	.506	.	.000	.000	.292
		N	31	31	31	31	31
	Kreatinin	Correlation Coefficient	.040	.757**	1.000	-.962**	.297
		Sig. (2-tailed)	.829	.000	.	.000	.105
		N	31	31	31	31	31
LFG	Correlation Coefficient	-.050	-.768**	-.962**	1.000	-.346	
	Sig. (2-tailed)	.789	.000	.000	.	.056	
	N	31	31	31	31	31	
BT	Correlation Coefficient	-.023	.195	.297	-.346	1.000	
	Sig. (2-tailed)	.902	.292	.105	.056	.	
	N	31	31	31	31	31	

** . Correlation is significant at the 0.01 level (2-tailed).

Correlations

		Hb	Trombosit
Hb	Pearson Correlation	1	.420*
	Sig. (2-tailed)		.019
	N	31	31
Trombosit	Pearson Correlation	.420*	1
	Sig. (2-tailed)	.019	
	N	31	31

Agregasi Trombosit

Descriptives

Agregasi Trombosit			Statistic	Std. Error	
Hb	Hipoagregasi	Mean	7.75	.698	
		95% Confidence Interval for Mean	Lower Bound	5.96	
			Upper Bound	9.54	
		5% Trimmed Mean		7.65	
		Median		7.30	
		Variance		2.923	
		Std. Deviation		1.710	
		Minimum		6	
		Maximum		11	
		Range		5	
		Interquartile Range		2	
		Skewness		1.997	.845
		Kurtosis		4.574	1.741
			Normoagregasi	Mean	7.99
95% Confidence Interval for Mean	Lower Bound			6.89	
	Upper Bound			9.10	
5% Trimmed Mean				7.98	
Median				7.60	
Variance				4.616	
Std. Deviation				2.148	
Minimum				5	
Maximum				12	
Range				7	
Interquartile Range				4	
Skewness				.069	.550
Kurtosis				-1.091	1.063
	Hiperagregasi			Mean	7.26
		95% Confidence Interval for Mean	Lower Bound	6.43	
			Upper Bound	8.09	
		5% Trimmed Mean		7.26	
		Median		6.85	
		Variance		.980	
		Std. Deviation		.990	

	Minimum		6	
	Maximum		9	
	Range		3	
	Interquartile Range		2	
	Skewness		.404	.752
	Kurtosis		-1.140	1.481
Trombosit	Hipoagregasi	Mean	215166.67	24213.518
		95% Confidence Interval for Lower Bound	152923.84	
		Mean Upper Bound	277409.50	
		5% Trimmed Mean	216185.19	
		Median	218000.00	
		Variance	3.518E9	
		Std. Deviation	59310.763	
		Minimum	122000	
		Maximum	290000	
		Range	168000	
		Interquartile Range	87750	
		Skewness	-.492	.845
	Kurtosis	-.035	1.741	
Normoagregasi	Mean		269588.24	26703.169
		95% Confidence Interval for Lower Bound	212980.04	
		Mean Upper Bound	326196.43	
		5% Trimmed Mean	268875.82	
		Median	245000.00	
		Variance	1.212E10	
		Std. Deviation	110099.98	
			8	
		Minimum	95000	
		Maximum	457000	
		Range	362000	
		Interquartile Range	156000	
	Skewness	.093	.550	
	Kurtosis	-.875	1.063	
Hiperagregasi	Mean		236625.00	33522.347
		95% Confidence Interval for Lower Bound	157357.24	
		Mean Upper Bound	315892.76	
		5% Trimmed Mean	233527.78	

		Median		210000.00	
		Variance		8.990E9	
		Std. Deviation		94815.516	
		Minimum		133000	
		Maximum		396000	
		Range		263000	
		Interquartile Range		173000	
		Skewness		.741	.752
		Kurtosis		-.732	1.481
Ureum	Hipoagregasi	Mean		247.00	52.503
		95% Confidence Interval for	Lower Bound	112.04	
		Mean	Upper Bound	381.96	
		5% Trimmed Mean		240.44	
		Median		188.60	
		Variance		16539.088	
		Std. Deviation		128.604	
		Minimum		135	
		Maximum		477	
		Range		342	
		Interquartile Range		194	
		Skewness		1.459	.845
		Kurtosis		1.513	1.741
	Normoagregasi	Mean		168.20	10.692
		95% Confidence Interval for	Lower Bound	145.53	
		Mean	Upper Bound	190.87	
		5% Trimmed Mean		169.98	
		Median		168.50	
		Variance		1943.544	
		Std. Deviation		44.086	
		Minimum		78	
		Maximum		226	
		Range		149	
		Interquartile Range		57	
		Skewness		-.708	.550
		Kurtosis		.037	1.063
	Hiperagregasi	Mean		162.41	24.372
			Lower Bound	104.78	

		95% Confidence Interval for Mean	Upper Bound	220.04	
		5% Trimmed Mean		161.85	
		Median		153.35	
		Variance		4751.984	
		Std. Deviation		68.935	
		Minimum		82	
		Maximum		253	
		Range		170	
		Interquartile Range		139	
		Skewness		.192	.752
		Kurtosis		-1.945	1.481
Kreatinin	Hipoagregasi	Mean		18.45	4.599
		95% Confidence Interval for Mean	Lower Bound	6.62	
			Upper Bound	30.27	
		5% Trimmed Mean		17.99	
		Median		18.27	
		Variance		126.903	
		Std. Deviation		11.265	
		Minimum		7	
		Maximum		38	
		Range		32	
		Interquartile Range		16	
		Skewness		1.166	.845
		Kurtosis		1.921	1.741
	Normoagregasi	Mean		9.22	.967
		95% Confidence Interval for Mean	Lower Bound	7.17	
			Upper Bound	11.27	
		5% Trimmed Mean		9.10	
		Median		9.39	
		Variance		15.888	
		Std. Deviation		3.986	
		Minimum		3	
		Maximum		18	
		Range		15	
		Interquartile Range		6	
		Skewness		.291	.550

		Kurtosis		-206	1.063
	Hiperagregasi	Mean		9.75	1.514
		95% Confidence Interval for	Lower Bound	6.18	
		Mean	Upper Bound	13.33	
		5% Trimmed Mean		9.50	
		Median		8.75	
		Variance		18.336	
		Std. Deviation		4.282	
		Minimum		6	
		Maximum		18	
		Range		12	
		Interquartile Range		7	
		Skewness		1.304	.752
		Kurtosis		.741	1.481
LFG	Hipoagregasi	Mean		3.35	1.169
		95% Confidence Interval for	Lower Bound	.34	
		Mean	Upper Bound	6.36	
		5% Trimmed Mean		3.25	
		Median		1.97	
		Variance		8.201	
		Std. Deviation		2.864	
		Minimum		1	
		Maximum		7	
		Range		6	
		Interquartile Range		6	
		Skewness		.884	.845
		Kurtosis		-1.653	1.741
	Normoagregasi	Mean		7.39	1.030
		95% Confidence Interval for	Lower Bound	5.21	
		Mean	Upper Bound	9.58	
		5% Trimmed Mean		7.15	
		Median		5.83	
		Variance		18.049	
		Std. Deviation		4.248	
		Minimum		3	
		Maximum		16	
		Range		13	

	Interquartile Range		7	
	Skewness		.973	.550
	Kurtosis		-.459	1.063
Hiperagregasi	Mean		6.48	.956
	95% Confidence Interval for	Lower Bound	4.22	
	Mean	Upper Bound	8.74	
	5% Trimmed Mean		6.39	
	Median		6.31	
	Variance		7.317	
	Std. Deviation		2.705	
	Minimum		3	
	Maximum		12	
	Range		9	
	Interquartile Range		3	
	Skewness		.743	.752
	Kurtosis		1.351	1.481

Tests of Normality

Agregasi Trombosit		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hb	Hipoagregasi	.368	6	.011	.754	6	.022
	- Normoagregasi	.126	17	.200*	.961	17	.652
	- Hiperagregasi	.268	8	.095	.906	8	.330
Trombosit	Hipoagregasi	.187	6	.200*	.957	6	.795
	- Normoagregasi	.118	17	.200*	.958	17	.588
	- Hiperagregasi	.182	8	.200*	.920	8	.429
Ureum	Hipoagregasi	.338	6	.031	.822	6	.091
	- Normoagregasi	.125	17	.200*	.931	17	.230
	- Hiperagregasi	.208	8	.200*	.878	8	.179
Kreatinin	Hipoagregasi	.280	6	.156	.890	6	.321
	- Normoagregasi	.083	17	.200*	.977	17	.929
	- Hiperagregasi	.305	8	.027	.819	8	.046
LFG	Hipoagregasi	.281	6	.151	.792	6	.050
	- Normoagregasi	.219	17	.029	.842	17	.008
	- Hiperagregasi	.202	8	.200*	.946	8	.669

a. Lilliefors Significance Correction

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

Kruskal-Wallis Test

Ranks

Agregasi Trombosit		N	Mean Rank
Hb	Hipoagregasi	6	16.58
	Normoagregasi	17	16.91
	Hiperagregasi	8	13.63
	Total	31	
Ureum	Hipoagregasi	6	20.17
	Normoagregasi	17	15.12
	Hiperagregasi	8	14.75
	Total	31	
Kreatinin	Hipoagregasi	6	23.33
	Normoagregasi	17	14.21
	Hiperagregasi	8	14.31
	Total	31	
LFG	Hipoagregasi	6	8.58
	Normoagregasi	17	17.82
	Hiperagregasi	8	17.69
	Total	31	

Test Statistics^{a,b}

	Hb	Ureum	Kreatinin	LFG
Chi-square	.743	1.572	4.843	4.953
df	2	2	2	2
Asymp. Sig.	.690	.456	.089	.084

a. Kruskal Wallis Test

b. Grouping Variable: Agregasi Trombosit

Oneway

ANOVA

Trombosit

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.522E10	2	7.612E9	.777	.470
Within Groups	2.745E11	28	9.803E9		
Total	2.897E11	30			

Lampiran 5

MASTER TABEL

Lampiran 6

DAFTAR RIWAYAT HIDUP

I. Identitas

Nama : Dr. Ahsan Tanio Daulay
Tempat/Tgl Lahir : Medan/ 19 September 1984
Suku/Bangsa : Mandailing/ Indonesia
Agama : Islam
Alamat : Jl. Ambai No. 43A Medan

II. Keluarga

Ayah : DR Drs H Nasrun Jamy Daulay, MAg
Ibu : Hj Erniawati Lubis

III. Pendidikan

SD Negeri 060857, Medan, Tamat Tahun 1996
SMP Negeri 35, Medan, Tamat Tahun 1999
SMA Negeri 7, Medan, Tamat Tahun 2002
Fakultas Kedokteran Universitas Sumatera Utara, Tamat Tahun 2008

IV. Riwayat Pekerjaan

Dokter Jaga RSIA Az-Zakiyah 2009-sekarang

V. Perkumpulan Profesi

Anggota PDUI Cabang Sumatera Utara
Anggota IDI Medan

Journal Reading:

1. Cobalamine & folic acid status in relation to the etiopathogenesis of pancytopenia in adult at a tertiary care center in North India
2. Eltrombopag and improved hematopoiesis in refractory aplastic anemia
3. Platelet count and SVR in Hepatitis C treatment
4. Validation of the GERDQ questionnaire for the management of gastroesophageal reflux disease
5. BMI and metabolic factors predict glomerular filtration rate and albuminuria over 20 years in a high risk population

6. Clinical correlates of ambulatory BP monitoring among patients with CKD
7. Association between sleep duration and prevalence of cardiovascular event
8. Early NT proBMP decrease in ambulatory patients with systolic heart failure
9. Implementation of Ramadhan specific diabetes management recommendation: a multicenter prospective study from Pakistan
10. Apelin and testosterone level in men with metabolic syndrome
11. The effectiveness of acupuncture compared to loratadin in patients allergic to house dust mite
12. Clinical application of T SPOT TB using pleural effusion as a diagnostic method for tuberculosis infection
13. Double blind controlled trial of lecithinized superoxide dismutase in patients with idiopathic interstitial pneumonia short term evaluation safety and tolerability
14. Thrombocytopenia in plasmodium vivax malaria: how significant
15. Food born salmonella outbreak a single hospital ward

VI. Tulisan

1. Diagnosis dan penanganan G6PD
2. Kanker lambung: Patogenesis dan modalitas diagnostik
3. Manfaat pengukuran rasio albumin kreatinin urin dalam management PGK
4. Efusi pleura masif
5. Infeksi saluran kemih berkomplikasi