

## DAFTAR PUSTAKA

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## Lampiran 1. Biodata Peneliti




### 1. Data Pribadi

- Nama Lengkap : Magfirah Alfitri
- Tempat, Tanggal Lahir : Pangkajene, 27 Maret 1998
- Jenis Kelamin : Perempuan
- Agama : Islam
- Alamat : Jalan Sahabat 1, UNHAS
- Golongan Darah : A
- No. Telepon : 082350999642
- Alamat Email : [magfirahalfitri@gmail.com](mailto:magfirahalfitri@gmail.com)

### 2. Riwayat Pendidikan

NO.	STRATA	INSTITUSI	TEMPAT	TAHUN MASUK-LULUS
1.	TK	TK Pertiwi	Sidrap	2004
2.	SD	SD Negeri 8 Pangsid	Sidrap	2004-2010
3.	SMP	SMP Negeri 1 Pangsid	Sidrap	2010-2013
4.	SMA	SMA Negeri 1 Pangsid	Sidrap	2013-2016
5.	S1	FK Unhas	Makassar	2016-sekarang

### 3. Riwayat Pendidikan

	Nama Organisasi
	MYRC FK Unhas
	Medical Muslim Family

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## Lampiran 2. Persetujuan Etik



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN  
KOMITE ETIK PENELITIAN KESEHATAN  
RSPTN UNIVERSITAS HASANUDDIN  
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR  
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu  
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.



Contact Person: dr. Agussalim Bukhari., M.Med., Ph.D., SpGK TELP. 081241850858, 0411 5780103, Fax : 0411-581431

### REKOMENDASI PERSETUJUAN ETIK

Nomor : 1169/UN4.6.4.5.31/ PP36/ 2019

Tanggal: 3 Desember 2019

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

No Protokol	UH19121054	No Sponsor Protokol	
Peneliti Utama	<b>Magfirah Alfitri</b>	Sponsor	
Judul Peneliti	Profil Hematologi Pasien Diabetes Melitus Tipe 2 Dengan Ulkus Diabetikum dan Tanpa Ulkus Diabetikum di RSUP Dr Wahidin Sudirohusodo Makassar Periode Januari - Desember 2018		
No Versi Protokol	<b>1</b>	Tanggal Versi	<b>2 Desember 2019</b>
No Versi PSP		Tanggal Versi	
Tempat Penelitian	<b>RSUP dr. Wahidin Sudirohusodo Makassar</b>		
Jenis Review	<input checked="" type="checkbox"/> Exempted <input type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal	Masa Berlaku <b>3 Desember 2019</b> sampai <b>3 Desember 2020</b>	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian Kesehatan FKUH	Nama <b>Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)</b>	Tanda tangan	
Sekretaris Komisi Etik Penelitian Kesehatan FKUH	Nama <b>dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)</b>	Tanda tangan	

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 Laporan 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



### Lampiran 3. Data Mentah

no. RM	JK	usia	pekerjaan	lama DM	WBC (10 <sup>3</sup> /uL)	RBC (10 <sup>6</sup> /uL)	Hb (g/dL)	Hct (%)	MCV (fL)	MCH (pg)	MCHC (g/dL)	RDW-SD (fL)	RDW-CV (%)	PLT (10 <sup>3</sup> /uL)
853229	l	66	pensiunan	2 bln	7,42	4,19	12,6	36,1	86,2	30,1	34,9	42,4	13,5	342
849456	p	48	wiraswasta	6 bln	9,42	4,09	11,5	34,7	84,8	28,1	33,1	36,7	11,9	377
786938	l	48	petani	5 tahun	8,32	5,07	15,5	42,8	84,4	30,6	36,2	38,1	12,5	276
844805	l	51	PNS	1 minggu	8,6	5,67	17	48,2	85	29,9	35,1	36	11,8	320
559315	l	89	pensiunan	3 tahun	7,09	4,63	12	37,8	81,6	25,9	31,7	41,4	14,5	307
863411	p	39	IRT	2 tahun	10,18	4,73	15,4	42,7	90,3	32,6	36,1	37,3	11,5	266
846914	p	45	PNS	2 tahun	5,74	2,33	6,4	20,7	88,8	27,5	30,9	45,7	14,1	292
849418	l	48	wiraswasta	6 tahun	6,63	4,26	13,9	36,9	86,6	32,6	37,7	32,6	10,5	248
843462	p	45	IRT	2 tahun	8,44	5,16	14,1	40,6	78,7	27,3	34,7	36,1	12,7	349
845186	l	58	POLRI/TNI	4 tahun	9,01	4,67	14,3	41,5	88,9	30,6	34,5	41,3	12,7	214
862800	l	46	PNS	1 tahun	8,51	5,23	14,4	43,6	83,4	27,5	33	42	13,7	210
790987	l	62	POLRI/TNI	5 tahun	8,69	3,29	10	28	85,1	30,4	35,7	40,3	13,1	226
848527	l	67	pensiunan	3 tahun	9,24	4,18	11,8	35,5	84,9	28,2	33,2	39,7	12,9	416
846227	l	63	pensiunan	7 tahun	11,45	3,05	9,2	26	85,2	30,2	35,4	41,1	13,3	428



no. RM	JK	usia	pekerjaan	lama DM	lama ulkus	derajat ulkus	WBC	RBC	Hb	Hct	MCV	MCH	MCHC	RDW-SD	RDW-CV	PLT
840876	p	63	pensiunan	2	2 minggu	II	9,54	3,52	10,2	31,4	89,2	29	32,5	46,7	14,4	410
846736	p	60	IRT	5	2 minggu	IV	12,32	3,64	9,8	31,9	87,6	26,9	30,7	55,8	18,3	440
858589	l	59	wiraswasta	20	1 bln	III	21,04	4,03	11,4	34	84,4	28,3	33,5	35,9	11,8	556
866617	p	52	PNS	18	3 bln	III	8,57	3,22	8	26,2	81,4	24,8	30,5	47,2	16	648
863007	p	67	IRT	10	1 bln	V	21,31	4,34	10,7	31,8	73,3	24,7	33,6	36,2	13,6	525
853360	l	37	wiraswasta	3	2 bln	III	11,93	3,21	9,1	28,4	88,5	28,3	32	45,1	13,9	713
852046	l	43	petani	8	1 bln	III	7,54	3,69	10,2	32	86,7	27,6	31,9	39,4	12,5	464
658806	l	53	wiraswasta	12	6 bln	IV	7,38	3,59	8,6	27,3	76	24	31,5	51,8	18,7	598
127411	p	22	pensiunan	1	2 minggu	IV	22,23	3,88	11,3	34,5	88,9	29,1	32,8	47	15	632
851528	p	36	IRT	10	3 minggu	IV	23,46	3,25	8,4	26,1	80,3	25,8	32,2	35,1	11,9	504
856791	l	50	PNS	10	4 hari	V	21,45	7,05	19,5	57,3	81,3	27,7	34	39,8	13,8	469
608333	l	59	tidak bekerja	5	3 bln	III	26,1	3,33	9,5	28,5	85,6	28,5	33,3	53,9	17,4	362
843657	l	68	petani	2	1 minggu	V	12,13	3,69	11,2	33,7	91,3	30,4	33,2	39,3	11,7	547
682783	l	64	wiraswasta	5	3 hari	III	26,96	4,61	13	38	82,4	28,2	34,2	38,2	12,7	394
574223	l	42	tidak bekerja	8	1 minggu	III	9,9	3,24	9,1	28,1	86,7	28,1	32,4	38,2	11,9	619
805162	l	49	wiraswasta	10	1 bln	III	15,97	2,5	7,1	21,8	87,2	28,4	32,6	53,3	17,2	566
449083	p	48	IRT	10	1 minggu	III	11,89	4,59	12,6	38,5	83,9	27,5	32,7	43,8	14,3	300
864838	l	81	tidak bekerja	3	3 bln	III	17,31	3,74	10,3	28,8	77	27,5	35,18	38,6	13,6	444
844791	p	60	IRT	10	1 bln	IV	7	3,97	9,4	30,6	77,1	23,7	30,7	45,6	16,1	775
851145	p	47	wiraswasta	5	2 minggu	IV	11,6	4,24	11	34	80,2	25,9	32,4	39,4	13,8	149
848886	p	59	IRT	10	2 minggu	III	13,43	4,34	12,5	39,9	91,9	28,8	31,3	47,2	14,2	405
84520			petani	1	1 bln	IV	13,41	3,49	9,5	30,1	86,2	27,2	31,6	42,2	13,4	463
68278			raswasta	5	1 minggu	III	8,97	3,9	10,4	32	82,1	26,7	32,5	45,2	15,1	476
85867			raswasta	6	1 bln	III	27,63	3,38	10,1	29,3	86,7	29,9	34,5	45,4	14,3	527





**Lampiran 4. Hasil Uji Statistik**

**KARAKTERISTIK SUBJEK PENELITIAN**

**Case Processing Summary**

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
JK * diagnosis	38	100.0%	0	0.0%	38	100.0%
usia * diagnosis	38	100.0%	0	0.0%	38	100.0%
pekerjaan * diagnosis	38	100.0%	0	0.0%	38	100.0%
lama_ulkus * diagnosis	38	100.0%	0	0.0%	38	100.0%
lama_menderita_DM_ket * diagnosis	38	100.0%	0	0.0%	38	100.0%

**1. Distribusi sampel berdasarkan jenis kelamin**

		JK			Cumulative Percent
		Frequency	Percent	Valid Percent	
Valid	laki-laki	24	63.2	63.2	63.2
	perempuan	14	36.8	36.8	100.0
Total		38	100.0	100.0	

		JK * diagnosis Crosstabulation		
Count		diagnosis		Total
		ulkus diabetik	non-ulkus	
JK	laki-laki	14	10	24
	perempuan	10	4	14
Total		24	14	38



## 2. Distribusi sampel berdasarkan usia

		usia			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	<30 tahun	1	2.6	2.6	2.6
	31-40 tahun	3	7.9	7.9	10.5
	41-50 tahun	12	31.6	31.6	42.1
	51-60 tahun	9	23.7	23.7	65.8
	61-70 tahun	11	28.9	28.9	94.7
	>71 tahun	2	5.3	5.3	100.0
	Total	38	100.0	100.0	

usia * diagnosis Crosstabulation				
Count		diagnosis		Total
		ulkus diabetik	non-ulkus	
usia	<30 tahun	1	0	1
	31-40 tahun	2	1	3
	41-50 tahun	6	6	12
	51-60 tahun	7	2	9
	61-70 tahun	7	4	11
	>71 tahun	1	1	2
Total		24	14	38

Report			
umur	Mean	N	Std. Deviation
diagnosis			
ulkus diabetik	53.1667	24	12.74385
non-ulkus	55.3571	14	13.13016
Total	53.9737	38	12.75441



### 3. Distribusi sampel berdasarkan jenis pekerjaan

		pekerjaan			Cumulative Percent
		Frequency	Percent	Valid Percent	
Valid	IRT	8	21.1	21.1	21.1
	pensiunan	6	15.8	15.8	36.8
	petani	4	10.5	10.5	47.4
	PNS	5	13.2	13.2	60.5
	POLRI/TNI	2	5.3	5.3	65.8
	tidak bekerja	3	7.9	7.9	73.7
	wiraswasta	10	26.3	26.3	100.0
	Total	38	100.0	100.0	

pekerjaan * diagnosis Crosstabulation				
Count		diagnosis		Total
		ulkus diabetik	non-ulkus	
pekerjaan	IRT	6	2	8
	pensiunan	2	4	6
	petani	3	1	4
	PNS	2	3	5
	POLRI/TNI	0	2	2
	tidak bekerja	3	0	3
	wiraswasta	8	2	10
	Total	24	14	38

### 4. Distribusi pasien Diabetes Melitus tipe 2 dengan Ulkus Diabetikum dan tanpa Ulkus Diabetikum

		diagnosis			Cumulative Percent
		Frequency	Percent	Valid Percent	
Valid	ulkus diabetik	24	63.2	63.2	63.2
	non-ulkus	14	36.8	36.8	100.0
	Total	38	100.0	100.0	



**5. Rata- rata waktu lamanya pasien menderita Diabetes Melitus tipe 2**

Report			
lama_menderita_DM			
diagnosis	Mean	N	Std. Deviation
ulkus diabetik	7.4583	24	4.88991
non-ulkus	2.9061	14	2.21948
Total	5.7812	38	4.64184

**6. Distribusi pasien Diabetes Melitus tipe 2 dengan Ulkus Diabetikum berdasarkan lama terjadinya ulkus diabetikum**

lama_ulkus * diagnosis Crosstabulation				
Count		diagnosis		Total
		ulkus diabetik	non-ulkus	
lama_ulkus		0	14	14
	1 bln	7	0	7
	1 minggu	4	0	4
	2 bln	1	0	1
	2 minggu	5	0	5
	3 bln	3	0	3
	3 hari	1	0	1
	3 minggu	1	0	1
	4 hari	1	0	1
	6 bln	1	0	1
Total		24	14	38

lama_ulkus_ket * diagnosis Crosstabulation				
Count		diagnosis		Total
		ulkus diabetik	non-ulkus	
lama_menderita_DM_ket		0	14	14
	< 2 minggu	6	0	6
	1-3 bulan	7	0	7
	2-4 minggu	10	0	10
	3-6 bulan	1	0	1
Total		24	14	38



**7. Distribusi pasien Diabetes Melitus tipe 2 dengan Ulkus Diabetikum berdasarkan derajat ulkus**

**Case Processing Summary**

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
derajat_ulkus * diagnosis	24	63.2%	14	36.8%	38	100.0%

derajat_ulkus	diagnosis		Total
	2.00	3.00	
2.00	1	1	2
3.00	13	13	26
4.00	7	7	14
5.00	3	3	6
Total	24	24	48



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### Case Processing Summary

	diagnosis	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
WBC	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
RBC	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
Hb	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
Hct	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
MCV	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
MCH	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
MCHC	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
RDW_SD	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
RDW_CV	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%
PLT	ulkus diabetik	24	100.0%	0	0.0%	24	100.0%
	non-ulkus	14	100.0%	0	0.0%	14	100.0%

### Report

diagnosis		WBC	RBC	Hb	Hct	MCV	MCH
ulkus diabetik	Mean	15.3779	3.8517	10.5375	32.2583	83.9958	27.3750
	N	24	24	24	24	24	24
	Std. Deviation	6.70067	.84219	2.39289	6.77206	4.94794	1.77721
non-ulkus	Mean	8.4814	4.3250	12.7214	36.7929	85.2786	29.3929
	N	14	14	14	14	14	14
	Std. Deviation	1.45511	.92120	2.83445	7.56728	2.97326	2.01436
Total	Mean	12.8371	4.0261	11.3421	33.9289	84.4684	28.1184
	N	38	38	38	38	38	38
	Std. Deviation	6.32615	.89029	2.74262	7.31721	4.32642	2.08856



### Report

diagnosis		MCHC	RDW_SD	RDW_CV	PLT	TB	usia
ulkus diabetik	Mean	32.5742	43.7625	14.4000	499.4167	159.0870	3.8333
	N	24	24	24	24	23	24
	Std. Deviation	1.21799	5.95124	2.01300	134.59986	7.57936	1.20386
non-ulkus	Mean	34.4429	39.3357	12.7643	305.0714	159.7857	3.8571
	N	14	14	14	14	14	14
	Std. Deviation	1.86371	3.38404	1.07818	70.97937	6.71598	1.16732
Total	Mean	33.2626	42.1316	13.7974	427.8158	159.3514	3.8421
	N	38	38	38	38	37	38
	Std. Deviation	1.72542	5.54281	1.88858	148.52024	7.17719	1.17465

### Tests of Normality

diagnosis	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
WBC	ulkus diabetik	.198	24	.016	.902	24	.024
	non-ulkus	.170	14	.200*	.976	14	.944
RBC	ulkus diabetik	.181	24	.040	.781	24	.000
	non-ulkus	.185	14	.200*	.943	14	.458
Hb	ulkus diabetik	.193	24	.022	.801	24	.000
	non-ulkus	.161	14	.200*	.958	14	.683
Hct	ulkus diabetik	.204	24	.011	.806	24	.000
	non-ulkus	.177	14	.200*	.940	14	.418
MCV	ulkus diabetik	.130	24	.200*	.963	24	.505
	non-ulkus	.170	14	.200*	.947	14	.522
MCH	ulkus diabetik	.153	24	.151	.947	24	.236
	non-ulkus	.171	14	.200*	.938	14	.392
MCHC	ulkus diabetik	.093	24	.200*	.980	24	.904
	non-ulkus	.155	14	.200*	.969	14	.868
RDW_SD	ulkus diabetik	.164	24	.095	.940	24	.163
	non-ulkus	.128	14	.200*	.972	14	.901
RDW_CV	ulkus diabetik	.167	24	.083	.931	24	.101
	non-ulkus	.119	14	.200*	.982	14	.983
PLT	ulkus diabetik	.092	24	.200*	.980	24	.905
	non-ulkus	.090	14	.200*	.953	14	.606



## T-test

### Group Statistics

	diagnosis	N	Mean	Std. Deviation	Std. Error Mean
MCV	ulkus diabetik	24	83.9958	4.94794	1.00999
	non-ulkus	14	85.2786	2.97326	.79464
MCH	ulkus diabetik	24	27.3750	1.77721	.36277
	non-ulkus	14	29.3929	2.01436	.53836
MCHC	ulkus diabetik	24	32.5742	1.21799	.24862
	non-ulkus	14	34.4429	1.86371	.49810
RDW_SD	ulkus diabetik	24	43.7625	5.95124	1.21479
	non-ulkus	14	39.3357	3.38404	.90442
RDW_CV	ulkus diabetik	24	14.4000	2.01300	.41090
	non-ulkus	14	12.7643	1.07818	.28816
PLT	ulkus diabetik	24	499.4167	134.59986	27.47508
	non-ulkus	14	305.0714	70.97937	18.97004

### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
MCV	Equal variances assumed	5.931	.020	-.879	36
	Equal variances not assumed			-.998	35.930
MCH	Equal variances assumed	.758	.390	-3.215	36
	Equal variances not assumed			-3.108	24.617
MCHC	Equal variances assumed	3.283	.078	-3.745	36
	Equal variances not assumed			-3.357	19.597
RDW_SD	Equal variances assumed	5.474	.025	2.544	36
	Equal variances not assumed			2.923	35.997
RDW_CV	Equal variances assumed	4.101	.050	2.804	36
	Equal variances not assumed			3.259	35.846
	Equal variances assumed	3.230	.081	4.993	36
	Equal variances not assumed			5.821	35.773





### Independent Samples Test

		t-test for Equality of Means			
		Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference Lower
MCV	Equal variances assumed	.385	-1.28274	1.45945	-4.24264
	Equal variances not assumed	.325	-1.28274	1.28512	-3.88926
MCH	Equal variances assumed	.003	-2.01786	.62764	-3.29077
	Equal variances not assumed	.005	-2.01786	.64918	-3.35592
MCHC	Equal variances assumed	.001	-1.86869	.49904	-2.88080
	Equal variances not assumed	.003	-1.86869	.55670	-3.03147
RDW_SD	Equal variances assumed	.015	4.42679	1.73976	.89839
	Equal variances not assumed	.006	4.42679	1.51450	1.35524
RDW_CV	Equal variances assumed	.008	1.63571	.58332	.45268
	Equal variances not assumed	.002	1.63571	.50187	.61772
PLT	Equal variances assumed	.000	194.34524	38.92059	115.41062
	Equal variances not assumed	.000	194.34524	33.38776	126.61678

### Independent Samples Test

		t-test for Equality of Means	
		95% Confidence Interval of the Difference Upper	
MCV	Equal variances assumed	1.67717	
	Equal variances not assumed	1.32379	
MCH	Equal variances assumed	-.74495	
	Equal variances not assumed	-.67979	
MCHC	Equal variances assumed	-.85658	
	Equal variances not assumed	-.70591	
RDW_SD	Equal variances assumed	7.95519	
	Equal variances not assumed	7.49833	
RDW_CV	Equal variances assumed	2.81875	
	Equal variances not assumed	2.65371	
	Equal variances assumed	273.27986	
	Equal variances not assumed	262.07369	



## Mann-Whitney Test

		Ranks		
	diagnosis	N	Mean Rank	Sum of Ranks
WBC	ulkus diabetik	24	24.46	587.00
	non-ulkus	14	11.00	154.00
	Total	38		
RBC	ulkus diabetik	24	16.50	396.00
	non-ulkus	14	24.64	345.00
	Total	38		
Hb	ulkus diabetik	24	15.73	377.50
	non-ulkus	14	25.96	363.50
	Total	38		
Hct	ulkus diabetik	24	16.38	393.00
	non-ulkus	14	24.86	348.00
	Total	38		

Test Statistics <sup>a</sup>				
	WBC	RBC	Hb	Hct
Mann-Whitney U	49.000	96.000	77.500	93.000
Wilcoxon W	154.000	396.000	377.500	393.000
Z	-3.601	-2.179	-2.739	-2.270
Asymp. Sig. (2-tailed)	.000	.029	.006	.023
Exact Sig. [2*(1-tailed Sig.)]	.000 <sup>b</sup>	.029 <sup>b</sup>	.005 <sup>b</sup>	.023 <sup>b</sup>

a. Grouping Variable: diagnosis

b. Not corrected for ties.

