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Lampiran 1 : Surat Penjelasan kepada relawan/ partisipan penelitian

ELEKTROKARDIOGRAFI (EKG) PADA PENDERITA

DEMAM BERDARAH DENGUE

Penyakit demam berdarah dengue merupakan masalah kesehatan masyarakat. Sampai saat ini masih sering dijumpai penderita demam berdarah dengan gejala penyakit beraneka ragam. Selain menyebabkan renjatan dan atau perdarahan, penyakit DBD berpotensi menyebabkan kelainan jantung yang dapat menyebabkan kematian.

Kami bermaksud mengadakan penelitian untuk mempelajari adanya perubahan EKG pada penderita demam berdarah dengue sehubungan dengan adanya manifestasi kelainan jantung pada demam berdarah dengue. Diharapkan hasil penelitian ini akan bermanfaat dalam penanganan penderita demam berdarah dengue dan juga membantu pemerintah dalam rangka upaya menurunkan angka kematian akibat penyakit demam berdarah dengue. Bila ibu/bapak setuju berpartisipasi diharapkan ibu/bapak dapat memberikan persetujuan secara tertulis.

Kami akan menanyakan dan mencatat identitas anak/kemenakan ibu/bapak (nama, alamat, tanggal lahir, jenis kelamin), dikirim dari instansi/rumah sakit mana, barapa lama anak demam, riwayat sakit kepala, riwayat nyeri sendi, riwayat mual/muntah, riwayat sakit perut, BAB dan BAK, adanya perdarahan spontan, riwayat pemberian cairan infus dan pengobatan sebelum dikirim/dirujuk. Selanjutnya akan dilakukan pemeriksaan meliputi pengukuran berat badan dan tinggi badan,

pemeriksaan tekanan darah, nadi dan suhu badan. Pemeriksaan fisik secara keseluruhan akan dilakukan untuk mencari adanya perdarahan pada kulit ataupun penimbunan cairan di paru-paru/perut.

Kami akan melakukan pemeriksaan EKG pada setiap penderita DBD yang dirawat untuk melihat adanya perubahan EKG sehubungan dengan adanya kelainan jantung pada penderita demam berdarah dengue. Pengambilan rekaman EKG akan dilakukan oleh dokter. Semua biaya pemeriksaan akan ditanggung oleh peneliti.

Keikutsertaan anak/kemenakan ibu/bapak dalam penelitian ini bersifat suka rela tanpa paksaan, karena itu ibu/bapak bisa menolak ikut dalam penelitian ini tanpa takut akan kehilangan hak untuk mendapat pelayanan kesehatan yang dibutuhkan oleh anak/kemenakan ibu/bapak.

Semua data dari penelitian ini akan dicatat dan dipublikasikan tanpa membuka data pribadi anak/kemenakan ibu/bapak. Data pada penelitian ini akan dikumpulkan dan disimpan dalam file manual maupun elektronik.

Setelah membaca dan mengerti atas penjelasan yang kami berikan mengenai pentingnya mengetahui perubahan EKG pada penderita demam berdarah dengue serta tindakan yang akan kami lakukan dan kami mengucapkan terima kasih atas kesediaan ibu/bapak bergabung dengan kami dan berpartisipasi dalam perkembangan ilmu pengetahuan.

Lampiran 2**FORMULIR PERSETUJUAN MENGIKUTI PENELITIAN**

Setelah mendengar, mengikuti dan menyadari pentingnya penelitian :

**ELEKTROKARDIOGRAFI (EKG) PADA PENDERITA DEMAM
BERDARAH DENGUE**

Maka saya yang bertanda tangan di bawah ini :

Nama :

Umur :

Alamat :

Menyetujui anak/kemenakan saya :diikutkan dalam
penelitian ini.

Makassar,2012

Orangtua/Wali

(.....)

Penanggung Jawab

dr. Mulyani Kadir

Bagian Ilmu Kesehatan Anak FK UNHAS

RS Dr. Wahidin Sudirohusodo, Makassar

Lampiran 4 : Nilai normal interval PR menurut umur dan Heart rate

Rate	0-1 mo	1-6 mo	6 mo-1 yr	1-3 yr	3-8 yr	8-12 yr	12-16 yr	Adult
<60						0.16 (0.18)	0.16 (0.19)	0.17 (0.21)
60-80					0.15 (0.17)	0.15 (0.17)	0.15 (0.18)	0.16 (0.21)
80-100	0.10 (0.12)				0.14 (0.16)	0.15 (0.16)	0.15 (0.17)	0.15 (0.20)
100-120	0.10 (0.12)			(0.15)	0.13 (0.16)	0.14 (0.15)	0.15 (0.16)	0.15 (0.19)
120-140	0.10 (0.11)	0.11 (0.14)	0.11 (0.14)	0.12 (0.14)	0.13 (0.15)	0.14 (0.15)		0.15 (0.18)
140-160	0.09 (0.11)	0.10 (0.13)	0.11 (0.13)	0.11 (0.14)	0.12 (0.14)			(0.17)
160-180	0.10 (0.11)	0.10 (0.12)	0.10 (0.12)	0.10 (0.12)				
>180	0.09	0.09 (0.11)	0.10 (0.11)					

From Park MK, Guntheroth WG: *How to Read Pediatric ECGs*, 4th ed. Philadelphia, Mosby, 2006.

Lampiran 5 : Nilai normal durasi kompleks QRS menurut umur

	0-1 mo	1-6 mo	6-12 mo	1-3 yr	3-8 yr	8-12 yr	12-16 yr	Adults
Seconds	0.05 (0.07)	0.055 (0.075)	0.055 (0.075)	0.055 (0.075)	0.06 (0.075)	0.06 (0.085)	0.07 (0.085)	0.08 (0.10)

Derived from percentile charts in Davignon A, Rautaharju P, Boisselle E, et al: Normal ECG standards for infants and children. *Pediatr Cardiol* 1:123-131, 1979/80.

Lampiran 6 : Nilai normal *Heart Rate* (HR) anak menurut umur

UMUR	HEART RATE (x/menit)
Newborn	110-150
2 tahun	85-125
4 tahun	75-115
6 tahun	65-100
>6 tahun	60-100

Lampiran 7 : Nilai normal gelombang R dan S menurut umur

Table 3-4 -- R and S Voltages According to Lead and Age: Mean (and Upper Limit^[2]) (in mm)

Lead	0-1 mo	1-6 mo	6-12 mo	1-3 yr	3-8 yr	8-12 yr	12-16 yr	Adults
R Voltages								
I	4 (8)	7 (13)	8 (16)	8 (16)	7 (15)	7 (15)	6 (13)	6 (13)
II	6 (14)	13 (24)	13 (27)	12 (23)	13 (22)	14 (24)	14 (24)	5 (25)
III	8 (16)	9 (20)	9 (20)	9 (20)	9 (20)	9 (24)	9 (24)	6 (22)
aVR	3 (8)	2 (6)	2 (6)	2 (5)	2 (4)	1 (4)	1 (4)	1 (4)
aVL	2 (7)	4 (8)	5 (10)	5 (10)	3 (10)	3 (10)	3 (12)	3 (9)
aVF	7 (14)	10 (20)	10 (16)	8 (20)	10 (19)	10 (20)	11 (21)	5 (23)
V3R	10 (19)	6 (13)	6 (11)	6 (11)	5 (10)	3 (9)	3 (7)	
V4R	6 (12)	5 (10)	4 (8)	4 (8)	3 (8)	3 (7)	3 (7)	
V1	13 (24)	10 (19)	10 (20)	9 (18)	8 (16)	5 (12)	4 (10)	3 (14)
V2	18 (30)	20 (31)	22 (32)	19 (28)	15 (25)	12 (20)	10 (19)	6 (21)
V5	12 (23)	20 (33)	20 (31)	20 (32)	23 (38)	26 (39)	21 (35)	12 (33)
V6	5 (15)	13 (22)	13 (23)	13 (23)	15 (26)	17 (26)	14 (23)	10 (21)
S Voltages								
I	5 (10)	4 (9)	4 (9)	3 (8)	2 (8)	2 (8)	2 (8)	1 (6)
V3R	3 (12)	3 (10)	4 (10)	5 (12)	7 (15)	8 (18)	7 (16)	
V4R	4 (9)	4 (12)	5 (12)	5 (12)	5 (14)	6 (20)	6 (20)	
V1	7 (18)	5 (15)	7 (18)	8 (21)	11 (23)	12 (25)	11 (22)	10 (23)
V2	18 (33)	15 (26)	16 (29)	18 (30)	20 (33)	21 (36)	18 (33)	14 (36)
V5	9 (17)	7 (16)	6 (15)	5 (12)	4 (10)	3 (8)	3 (8)	
V6	3 (10)	3 (9)	2 (7)	2 (7)	2 (5)	1 (4)	1 (4)	1 (13)

Data are from three sources: (1) Percentile charts in Davignon A, Rautaharju P, Boisselle E, et al: Normal ECG standards for infants and children. *Pediatr Cardiol* 1:123-131, 1979/80. (2) Data for leads I, II, III, aVL, and aVF are from Guntheroth WG: *Pediatric Electrocardiography*. Philadelphia, WB Saunders, 1965 (used by permission). (3) Data for V4R and those for adults are from Park MK, Guntheroth WG: *How to Read Pediatric ECGs*, 3rd ed. St. Louis, Mosby-Year Book, 1992.

Voltages measured in millimeters, when 1 mV = 10 mm paper.

Lampiran 8 : Nilai normal gelombang Q menurut umur

Table 3-6 -- Q Voltages According to Lead and Age: Mean (and Upper Limit^[2]) (in mm)

	0-1 mo	1-6 mo	6-12 mo	1-3 yr	3-8 yr	8-12 yr	12-16 yr	Adults
III	1.5 (5.5)	1.5 (6.0)	2.1 (6.0)	1.5 (5.0)	1.0 (3.5)	0.6 (3.0)	1.0 (3.0)	0.5 (4)
aVF	1.0 (3.5)	1.0 (3.5)	1.0 (3.5)	1.0 (3.0)	0.5 (3.0)	0.5 (2.5)	0.5 (2.0)	0.5 (2)
V5	0.1 (3.5)	0.1 (3.0)	0.1 (3.0)	0.5 (4.5)	1.0 (5.5)	1.0 (3.0)	0.5 (3.0)	0.5 (3.5)
V6	0.5 (3.0)	0.5 (3.0)	0.5 (3.0)	0.5 (3.0)	1.0 (3.5)	0.5 (3.0)	0.5 (3.0)	0.5 (3)

Data are from percentile charts in Davignon A, Rautaharju P, Boisselle E, et al: Normal ECG standards for infants and children. *Pediatr Cardiol* 1:123-131, 1979/80.

Voltages measured in millimeters, when 1 mV = 10 mm paper.

DATA DASAR PENELITIAN

NO	REG	NAMA	JK	UMUR (TAHUN)	STATUS GIZI	DIAGNOSIS	KELOMPOK DIAGNOSIS	GELOMBANG P			INTERVAL PR			KOMPLEKS QRS		
								HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7
1	523068	RE	L	4	gizi kurang	DBD GRADE 4	DBD-R		normal	normal		abnormal	normal		abnormal	normal
2	524670	NG	P	3.92	gizi baik	DBD GRADE 2	DBD-TR	normal	abnormal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal
3	524806	MU	L	4.5	gizi kurang	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
4	525469	ZA	P	9	gizi kurang	DBD GRADE 2	DBD-TR	normal	normal	normal	abnormal	normal	normal	abnormal	abnormal	abnormal
5	359475	VA	L	9.83	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		normal	normal
6	526360	SUK	P	9.25	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
7	527353	SR	P	7	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
8	536922	TI	L	9.17	gizi kurang	DBD GRADE 3	DBD-R		normal	normal		normal	normal		normal	abnormal
9	537615	AMF	L	1	gizi baik	DBD GRADE 1	DBD-TR	normal	abnormal	normal	normal	normal	normal	normal	abnormal	abnormal
10	538241	ABR	L	12.25	gizi baik	DBD GRADE 3	DBD-R		normal	normal		abnormal	normal		abnormal	abnormal
11	544337	MFA	L	4	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
12	546600	FA	L	6.58	gizi baik	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
13	517516	MES	P	8.33	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	abnormal		abnormal	abnormal
14	549704	NIA	P	2.17	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
15	517905	SRW	P	10.08	gizi kurang	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
16	552500	PUM	P	8.42	gizi baik	DBD GRADE 1	DBD-TR	abnormal	normal	abnormal	normal	normal	normal	abnormal	abnormal	abnormal
17	553237	REO	L	12.42	gizi kurang	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
18	556314	SYM	L	12	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	normal
19	566951	SRY	P	11.25	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		normal	abnormal
20	524814	ALV	L	6.08	gizi baik	DBD GRADE 3	DBD-R		normal	abnormal		normal	abnormal		abnormal	normal
21	572233	REF	L	10.08	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
22	572837	ADI	P	3.58	gizi baik	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal
23	574828	MUT	L	10.42	gizi kurang	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	normal
24	576049	SUR	L	13.83	gizi baik	DBD GRADE 2	DBD-TR	normal	abnormal	normal	normal	normal	normal	abnormal	abnormal	abnormal
25	579687	TES	P	8	gizi kurang	DBD GRADE 4	DBD-R		normal	normal		normal	normal		abnormal	abnormal
26	580933	NUS	L	13	gizi kurang	DBD GRADE 3	DBD-R		abnormal	normal		normal	normal		abnormal	abnormal

NO	GELOMBANG Q			GELOMBANG T			SEGMENT ST			INTERVAL R-R			INTERPRETASI EKG		
	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7
1		Normal	Normal		abnormal	normal		abnormal	normal		abnormal	normal		abnormal	normal
2	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal	abnormal	abnormal
3		Normal	Normal		abnormal	normal		normal	normal		normal	normal		abnormal	abnormal
4	Normal	Normal	Normal	normal	normal	abnormal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal
5		Normal	Normal		abnormal	abnormal		normal	normal		normal	normal		abnormal	abnormal
6	Normal	Normal	Normal	normal	abnormal	abnormal	normal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal	abnormal
7		Normal	Normal		abnormal	abnormal		normal	normal		abnormal	normal		abnormal	abnormal
8		Normal	Normal		abnormal	abnormal		normal	normal		normal	normal		abnormal	abnormal
9	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	abnormal	abnormal	normal	abnormal	abnormal	abnormal	abnormal	abnormal
10		Normal	Normal		abnormal	abnormal		normal	normal		abnormal	normal		abnormal	abnormal
11		Normal	Normal		normal	abnormal		abnormal	normal		abnormal	normal		abnormal	abnormal
12	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal
13		Normal	Normal		abnormal	abnormal		abnormal	normal		abnormal	abnormal		abnormal	abnormal
14		Normal	Normal		abnormal	abnormal		normal	normal		normal	normal		abnormal	abnormal
15	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal
16	Normal	Normal	Normal	abnormal	normal	abnormal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal
17	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	abnormal	normal	normal	abnormal	abnormal	abnormal
18		Normal	Normal		normal	normal		normal	normal		abnormal	normal		abnormal	normal
19		Normal	Normal		normal	normal		normal	normal		normal	normal		normal	abnormal
20		Normal	Normal		abnormal	abnormal		normal	normal		abnormal	normal		abnormal	abnormal
21		Normal	Normal		abnormal	abnormal		normal	normal		normal	abnormal		abnormal	abnormal
22	Normal	Normal	Normal	normal	normal	normal	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
23		Normal	Normal		abnormal	normal		abnormal	normal		normal	normal		abnormal	normal
24	Normal	Normal	Normal	abnormal	normal	abnormal	normal	normal	normal	abnormal	normal	normal	abnormal	abnormal	abnormal
25		Normal	Normal		abnormal	abnormal		normal	normal		abnormal	abnormal		abnormal	abnormal
26		Normal	Normal		normal	abnormal		normal	normal		abnormal	abnormal		abnormal	abnormal

NO	REG	NAMA	JK	UMUR (TAHUN)	STATUS GIZI	DIAGNOSIS	KELOMPOK DIAGNOSIS	GELOMBANG P			INTERVAL PR			KOMPLEKS QRS		
								HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7
27	584840	ALS	L	1	gizi baik	DBD GRADE 3	DBD-R		normal	normal		abnormal	abnormal		abnormal	abnormal
28	585299	SAS	P	5.5	gizi baik	DBD GRADE 3	DBD-R		abnormal	normal		normal	normal		abnormal	abnormal
29	587330	ALD	P	7.25	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		normal	normal
30	586441	MUS	L	13	gizi kurang	DBD GRADE 3	DBD-R		normal	normal		normal	normal		normal	normal
31	586567	NIK	L	4.58	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
32	586567	NUR	P	13	obesitas	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
33	588552	AGU	L	13	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
34	588942	RIS	L	9	gizi kurang	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
35	471207	FAJ	L	13	gizi kurang	DBD GRADE 1	DBD-TR	normal	abnormal	normal	normal	normal	normal	abnormal	abnormal	abnormal
36	588611	FIT	P	13	gizi kurang	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	normal	normal
37	589026	MUN	L	10	gizi baik	DBD GRADE 1	DBD-TR	normal	abnormal	normal	normal	normal	normal	abnormal	normal	abnormal
38	589162	ALD	L	1	gizi baik	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	normal	normal
39	438381	AND	P	7.67	gizi baik	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	normal	abnormal	abnormal
40	593336	MUR	L	14.58	gizi baik	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	normal	normal
41	525174	AMF	L	14.17	obesitas	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	normal
42	593970	AKH	L	4.42	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
43	594695	AWA	L	10	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	abnormal	normal	normal	normal	abnormal	abnormal	abnormal
44	595350	ELS	P	8	gizi baik	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
45	604150	ALF	L	14	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
46	601554	NUI	P	9	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	normal
47	605388	ALR	L	4.08	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
48	597123	NUO	P	3	gizi baik	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
49	537740	MUA	L	4	gizi baik	DBD GRADE 3	DBD-R		abnormal	abnormal		normal	normal		normal	normal
50	597109	YAH	L	10	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal

NO	GELOMBANG Q			GELOMBANG T			SEGMENT ST			INTERVAL R-R			INTERPRETASI EKG		
	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7
27		Normal	Normal		abnormal	abnormal		normal	normal		normal	normal		abnormal	abnormal
28		Normal	Normal		normal	normal		normal	abnormal		normal	abnormal		abnormal	abnormal
29		Normal	Normal		normal	normal		normal	normal		normal	normal		normal	normal
30		Normal	Normal		abnormal	abnormal		normal	abnormal		normal	abnormal		abnormal	abnormal
31		Normal	Normal		abnormal	normal		normal	normal		normal	abnormal		abnormal	abnormal
32		Normal	Normal		abnormal	normal		normal	normal		normal	normal		abnormal	abnormal
33	Normal	Normal	Normal	abnormal	abnormal	normal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal
34	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal
35	1Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
36	Normal	Normal	Normal	normal	abnormal	normal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	normal
37	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	abnormal	abnormal	normal	abnormal	abnormal	abnormal
38	Normal	Normal	Normal	abnormal	abnormal	abnormal	abnormal	normal	normal	abnormal	abnormal	normal	abnormal	abnormal	abnormal
39	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	abnormal	abnormal	normal	abnormal	abnormal	abnormal
40	Normal	Normal	Normal	normal	abnormal	normal	normal	normal	normal	abnormal	normal	normal	abnormal	abnormal	normal
41		Normal	Normal		normal	normal		normal	normal		abnormal	normal		abnormal	normal
42		Normal	Normal		normal	normal		normal	normal		abnormal	abnormal		abnormal	abnormal
43	Normal	Normal	Normal	abnormal	abnormal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal	abnormal
44	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal	abnormal
45		Normal	Normal		abnormal	abnormal		normal	normal		abnormal	normal		abnormal	Abnormal
46		Normal	Normal		Abnormal	Abnormal		Normal	Normal		Normal	abnormal		Abnormal	Abnormal
47		Normal	Normal		Abnormal	Abnormal		Normal	Normal		Abnormal	abnormal		Abnormal	Abnormal
48	Normal	Normal	Normal	Abnormal	Abnormal	Abnormal	Normal	Normal	Normal	Abnormal	Normal	normal	abnormal	Abnormal	Abnormal
49		Normal	Normal		Abnormal	Normal		abnormal	Normal		abnormal	normal		abnormal	abnormal
50	Normal	Normal	Normal	Abnormal	abnormal	Abnormal	Normal	normal	normal	Normal	normal	abnormal	abnormal	abnormal	abnormal

NO	REG	NAMA	JK	UMUR (TAHUN)	STATUS GIZI	DIAGNOSIS	KELOMPOK DIAGNOSIS	GELOMBANG P			INTERVAL PR			KOMPLEKS QRS		
								HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7
51	600592	FAD	L	5	gizi kurang	DBD GRADE 3	DBD-R		normal	abnormal		normal	normal		abnormal	abnormal
52	600902	AD	L	6	gizi kurang	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
53	601133	SYA	P	8	obesitas	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	normal	normal
54	601563	RAH	P	6	gizi baik	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	normal	abnormal	abnormal
55	606513	SYH	L	7	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		normal	abnormal
56	277576	IRZ	P	6	gizi kurang	DBD GRADE 1	DBD-TR	abnormal	abnormal	abnormal	normal	normal	normal	normal	abnormal	abnormal
57	550512	MA	L	2.17	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	normal	abnormal
58	603535	SAP	L	3.25	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
59	603779	KHA	L	5.33	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		normal	normal
60	605695	ALD	P	7	gizi kurang	DBD GRADE 1	DBD-TR	normal	normal	normal	normal	normal	normal	normal	normal	normal
61	606521	NUF	P	5.42	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	normal	normal
62	606284	YUS	P	8	gizi baik	DBD GRADE 2	DBD-TR	normal	abnormal	normal	normal	normal	normal	abnormal	normal	abnormal
63	606589	AZZ	L	1	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
64	607142	MUD	L	10	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	abnormal	normal	normal	normal	abnormal	abnormal	abnormal
65	607706	MER	P	5	gizi kurang	DBD GRADE 2	DBD-TR	abnormal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
66	608026	ARI	L	6	gizi baik	DBD GRADE 2	DBD-TR	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
67	608530	RAS	L	5.92	gizi baik	DBD GRADE 2	DBD-TR	abnormal	normal	abnormal	normal	normal	normal	abnormal	abnormal	abnormal
68	608646	MAH	L	12	obesitas	DBD GRADE 3	DBD-R		normal	normal		normal	normal		normal	abnormal
69	614131	NAK	P	4.5	gizi baik	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	abnormal
70	616616	FAT	P	5.5	gizi kurang	DBD GRADE 3	DBD-R		normal	normal		normal	normal		abnormal	normal

NO	GELOMBANG Q			GELOMBANG T			SEGMENT ST			INTERVAL R-R			INTERPRETASI EKG		
	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7	HR KE-3	HR KE-5	HR KE-7
51		Normal	Normal		normal	normal		normal	normal		abnormal	normal		abnormal	abnormal
52	Normal	Normal	Normal	normal	abnormal	abnormal	normal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal	abnormal
53	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
54	Normal	Normal	Normal	normal	abnormal	normal	normal	normal	normal	normal	normal	normal	normal	abnormal	abnormal
55		Normal	Normal		abnormal	abnormal		normal	normal		abnormal	abnormal		abnormal	abnormal
56	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
57	Normal	Normal	Normal	abnormal	abnormal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal	abnormal
58		Normal	Normal		abnormal	abnormal		normal	normal		normal	abnormal		abnormal	abnormal
59		Normal	Normal		abnormal	abnormal		normal	normal		normal	normal		abnormal	abnormal
60	Normal	Normal	Normal	normal	abnormal	abnormal	normal	normal	normal	normal	normal	normal	normal	abnormal	abnormal
61	Normal	Normal	Normal	normal	abnormal	normal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	normal
62	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal
63	Normal	Normal	Normal	abnormal	abnormal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal	abnormal
64	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal	abnormal
65	Normal	Normal	Normal	abnormal	abnormal	abnormal	normal	normal	normal	normal	normal	normal	abnormal	abnormal	abnormal
66	Normal	Normal	Normal	normal	abnormal	abnormal	normal	normal	normal	normal	abnormal	normal	abnormal	abnormal	abnormal
67	Normal	Normal	Normal	abnormal	normal	abnormal	normal	normal	normal	abnormal	normal	normal	abnormal	abnormal	abnormal
68		Normal	Normal		abnormal	abnormal		normal	normal		normal	normal		abnormal	abnormal
69		Normal	Normal		abnormal	abnormal		normal	normal		abnormal	abnormal		abnormal	abnormal
70		Normal	Normal		abnormal	abnormal		normal	normal		abnormal	normal		abnormal	abnormal