

TABLE 1-12

QRS DURATION: AVERAGE (AND UPPER LIMITS) FOR AGE

	0-1 mo	1-6 mo	6 mo-1 yr	1-3 yr	3-8 yr	8-12 yr	12-16 yr	Adult
Seconds	0.05 (0.07)	0.05 (0.07)	0.05 (0.07)	0.06 (0.07)	0.07 (0.08)	0.07 (0.09)	0.07 (0.10)	0.08 (0.10)

Modified from Guntheroth WG: Pediatric Electrocardiography, Philadelphia, WB Saunders, 1965.

TABLE 1-13

PR INTERVAL WITH RATE AND AGE (UPPER LIMITS OF NORMAL)

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 (0.16)	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, 3rd ed. St. Louis, CV Mosby, 1992.

TABLE 1-14

MEAN AND RANGE OF NORMAL QRS AXES

1 wk-1 mo	+110 degrees (+30-+180)
1-3 mo	+ 70 degrees (+10-+125)
3 mo-3 yr	+ 60 degrees (+10-+110)
>3 yr	+ 60 degrees (+20-+120)
Adults	+ 50 degrees (-30-+105)

PR - lower limit
 < 3 0.08
 3-6 < 0.10
 7-16 < 0.18

TABLE 1-15

R AND S VOLTAGES ACCORDING TO LEAD AND AGE: MEAN (UPPER LIMITS)*

Voltage	Lead	0-1 mo	1-6 mo	6 mo-1 yr	1-3 yr	3-8 yr	8-12 yr	12-16 yr	Young Adults
R wave	I	4 (8)	7 (13)	8 (16)	8 (16)	7 (15)	7 (15)	6 (13)	6 (13)
	II	6 (14)	13 (24)	13 (27)	13 (23)	13 (22)	14 (24)	14 (24)	9 (25)
	III	8 (16)	9 (20)	9 (20)	9 (20)	9 (20)	9 (24)	9 (24)	6 (22)
	aVR	3 (7)	3 (6)	3 (6)	2 (6)	2 (5)	2 (4)	2 (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)
	V4R	6 (12)	5 (10)	4 (8)	4 (8)	3 (8)	3 (7)	3 (7)	
	V1	15 (25)	11 (20)	10 (20)	9 (9)	7 (18)	6 (16)	5 (16)	3 (14)
	V2	21 (30)	21 (30)	19 (28)	16 (25)	13 (28)	10 (22)	9 (19)	6 (21)
	V5	12 (30)	17 (30)	18 (30)	19 (36)	21 (36)	22 (36)	18 (33)	12 (33)
S wave	V6	6 (21)	10 (20)	13 (20)	13 (24)	14 (24)	14 (24)	14 (22)	10 (21)
	I	5 (10)	4 (9)	4 (9)	3 (8)	2 (8)	2 (8)	2 (8)	1 (6)
	V4R	4 (9)	4 (12)	5 (12)	5 (12)	5 (14)	6 (20)	6 (20)	
	V1	10 (20)	7 (18)	8 (16)	13 (27)	14 (30)	16 (26)	15 (24)	10 (23)
	V2	20 (35)	16 (30)	17 (30)	21 (34)	23 (38)	23 (38)	23 (48)	14 (36)
	V5	9 (30)	9 (26)	8 (20)	6 (16)	5 (14)	5 (17)	5 (16)	
V6	4 (12)	2 (7)	2 (6)	2 (6)	1 (5)	1 (4)	1 (5)	1 (13)	

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

Modified from Park MK, Guntheroth WG: How to Read Pediatric ECGs, 3rd ed. St. Louis, CV Mosby, 1992.