

KEY PEDIATRIC ECG NORMATIVE DATA

Lead Independent ECG measurements for boys (upper row) and girls (lower row):
Median (2nd, 98th %tile)

Age	HR (bpm)	QRS Axis (°)	PR Interval (ms)	QRS Duration (ms)
0-1m	160 (129, 192)	97 (75, 140)	99 (77, 120)	67 (50, 85)
	155 (136, 216)	110 (63, 155)	101 (91, 121)	67 (54, 79)
1-3m	152 (126, 187)	87 (37, 138)	98 (85, 120)	64 (52, 77)
	154 (126, 200)	80 (39, 121)	99 (78, 133)	63 (48, 77)
3-6m	134 (112, 165)	66 (-6, 107)	106 (87, 134)	66 (54, 85)
	139 (122, 191)	70 (17, 108)	106 (84, 127)	64 (50, 78)
6-12m	128 (106, 194)	68 (14, 122)	114 (82, 141)	69 (52, 86)
	134 (106, 187)	67 (1, 102)	109 (88, 133)	64 (52, 80)
1-3y	119 (97, 155)	64 (-4, 118)	118 (86, 151)	71 (54, 88)
	128 (95, 178)	69 (2, 121)	113 (78, 147)	68 (54, 85)
3-5y	98 (73, 123)	70 (7, 112)	121 (98, 152)	75 (58, 92)
	101 (78, 124)	69 (3, 106)	123 (99, 153)	71 (58, 88)
5-8y	88 (62, 113)	70 (-10, 112)	129 (99, 160)	80 (63, 98)
	89 (68, 115)	74 (27, 117)	124 (92, 156)	77 (59, 95)
8-12y	78 (55, 101)	70 (-21, 114)	134 (105, 174)	85 (67, 103)
	80 (58, 110)	66 (5, 117)	129 (103, 163)	82 (66, 99)
12-16y	73 (48, 99)	65 (-9, 112)	139 (107, 178)	91 (78, 111)
	76 (54, 107)	66 (5, 101)	134 (106, 176)	87 (72, 106)

Precordial ECG Measurements for boys (upper row) and girls (lower row):
Median (98th %tile)

Age	R wave V1 (mV)	R wave V6 (mV)	S wave V1 (mV)	S wave V6 (mV)	R/S Ratio V1**	R/S Ratio V6**
0-1m	1.10 (2.05)	1.00 (1.78)	0.74 (1.41)	0.49 (0.77)	1.6 (0.8, 3.7)	1.9 (1.0, 3.7)
	1.35 (2.22)	0.93 (1.64)	0.72 (1.48)	0.44 (1.07)	1.8 (1.0, 4.9)	2.0 (1.0, 3.7)
1-3m	1.23 (2.07)	1.55 (2.23)	0.63 (1.57)	0.51 (1.12)	1.9 (0.5, 5.0)	3.0 (0.8, 8.3)
	1.17 (1.99)	1.51 (2.67)	0.82 (1.59)	0.39 (0.77)	1.5 (0.6, 4.4)	3.6 (1.7, 8.7)
3-6m	1.32 (2.20)	1.65 (2.73)	0.69 (2.02)	0.46 (1.25)	1.8 (0.4, 2.2)	3.6 (0.4, S=0)
	1.14 (2.04)	1.60 (2.80)	0.74 (1.64)	0.41 (0.97)	1.6 (0.4, 4.1)	4.0 (1.1, S=0)
6-12m	1.12 (2.14)	1.70 (2.79)	0.69 (1.88)	0.46 (1.21)	1.6 (0.7, 4.2)	3.7 (1.1, S=0)
	1.01 (1.92)	1.68 (2.74)	0.76 (1.86)	0.31 (0.70)	1.4 (0.4, 3.4)	4.9 (1.8, S=0)
1-3y	1.08 (2.11)	1.79 (2.96)	0.95 (2.27)	0.37 (0.91)	1.2 (0.5, 2.9)	5.0 (0.8, S=0)
	1.01 (1.91)	1.68 (2.67)	0.86 (2.13)	0.33 (0.88)	1.2 (0.4, 2.8)	5.6 (0.5, S=0)
3-5y	0.95 (1.78)	1.94 (3.14)	1.09 (2.11)	0.34 (0.86)	0.8 (0.3, 1.9)	6.1 (1.9, S=0)
	0.77 (1.38)	1.89 (2.91)	1.03 (2.11)	0.30 (0.61)	0.7 (0.2, 1.8)	7.2 (2.7, S=0)
5-8y	0.63 (1.48)	1.97 (2.98)	1.15 (2.29)	0.34 (0.89)	0.6 (0.1, 0.7)	5.9 (1.8, S=0)
	0.55 (1.24)	2.05 (3.25)	1.23 (2.49)	0.29 (0.77)	0.5 (0.1, 1.4)	6.8 (1.7, S=0)
8-12y	0.54 (1.14)	2.18 (3.24)	1.30 (2.46)	0.34 (0.79)	0.4 (0.1, 1.2)	6.2 (1.7, S=0)
	0.49 (1.14)	2.00 (3.04)	1.32 (2.58)	0.27 (0.75)	0.4 (0.1, 1.1)	7.2 (2.0, S=0)
12-16y	0.48 (1.18)	2.02 (3.05)	1.30 (2.44)	0.37 (0.85)	0.4 (0.1, 1.1)	5.5 (2.0, S=0)
	0.35 (1.10)	1.65 (2.52)	1.15 (2.05)	0.30 (0.67)	0.3 (0.1, 1.0)	5.4 (1.3, S=0)

** Values represent median (2nd, 98th %tile)

Reference: Rijnbeek et al. New Normal Limits for the Paediatric Electrocardiogram (2001)