

## The Normal ECG in Childhood and Adolescence

David F. Dickinson, *Heart* 2005; 91: 1626-1630

**Table 1** Q wave amplitude in leads III and V6 taken from the tables of Rijnbeek and the centile charts of Davignon

	Rijnbeek median (98th centile)		Davignon median (98th centile)	
	III	V6	III	V6
0-1 month	0.15 (0.26)	0.11 (0.22)	–	–
1-3 months	0.29 (0.50)	0.16 (0.31)	0.12 (0.55)	0.03 (0.26)
3-6 months	0.31 (0.71)	0.17 (0.35)	0.13 (0.65)	0.04 (0.26)
6-12 months	0.35 (0.79)	0.20 (0.60)	0.17 (0.6)	0.04 (0.3)
1-3 years	0.30 (0.74)	0.20 (0.56)	0.13 (0.52)	0.05 (0.3)
3-5 years	0.19 (0.46)	0.15 (0.42)	0.09 (0.40)	0.07 (0.33)
5-8 years	0.15 (0.36)	0.12 (0.39)	0.09 (0.31)	0.07 (0.45)
8-12 years	0.10 (0.28)	0.12 (0.43)	0.05 (0.28)	0.06 (0.28)
12-16 years	0.10 (0.29)	0.11 (0.43)	0.04 (0.3)	0.04 (0.28)

The values for Rijnbeek are for males only whereas Davignon gives combined data for a group of males and females.

**Table 2** R wave amplitude (mV) in leads V1 and V6 taken from the tables of Rijnbeek and the centile charts of Davignon

	Rijnbeek median (98th centile)		Davignon median (98th centile)	
	V1	V6	V1	V6
0-1 month	1.1 (2.05)	1.0 (1.78)	–	–
1-3 months	1.23 (2.07)	1.55 (2.23)	0.9 (1.8)	1.2 (2.15)
3-6 months	1.32 (2.20)	1.65 (2.73)	1.0 (2.0)	1.3 (2.25)
6-12 months	1.12 (2.14)	1.7 (2.79)	0.9 (2.0)	1.25 (2.25)
1-3 years	1.08 (2.11)	1.79 (2.96)	0.85 (1.75)	1.3 (2.25)
3-5 years	0.95 (1.78)	1.98 (3.14)	0.8 (1.75)	1.5 (2.5)
5-8 years	0.63 (1.48)	1.97 (2.98)	0.7 (1.4)	1.65 (2.8)
8-12 years	0.54 (1.14)	2.18 (3.24)	0.5 (1.25)	1.6 (2.5)
12-16 years	0.48 (1.18)	2.02 (3.05)	0.4 (1.0)	1.5 (2.3)

The values for Rijnbeek are for males only whereas Davignon gives combined data for a group of males and females.

**Table 3** R wave amplitude (mV) for males and females in leads V1 and V6 taken from the tables of Rijnbeek

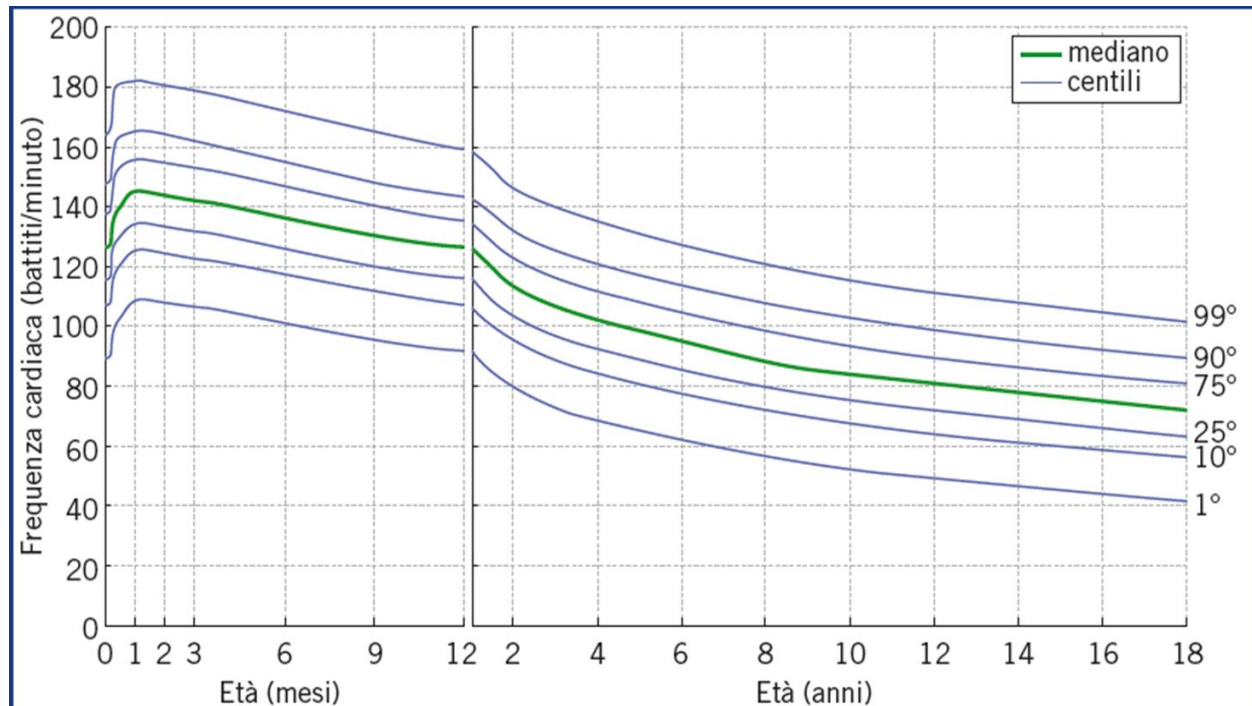
	Males median (98th centile)		Females median (98th centile)	
	V1	V6	V1	V6
0-1 month	1.1 (2.05)	1.0 (1.78)	1.35 (2.2)	0.93 (1.64)
1-3 months	1.23 (2.07)	1.55 (2.23)	1.17 (1.99)	1.51 (2.67)
3-6 months	1.32 (2.20)	1.65 (2.73)	1.14 (2.04)	1.6 (2.8)
6-12 months	1.12 (2.14)	1.7 (2.79)	1.01 (1.92)	1.68 (2.74)
1-3 years	1.08 (2.11)	1.79 (2.96)	1.01 (1.91)	1.68 (2.67)
3-5 years	0.95 (1.78)	1.98 (3.14)	0.77 (1.38)	1.89 (2.91)
5-8 years	0.63 (1.48)	1.97 (2.98)	0.55 (1.24)	2.05 (3.25)
8-12 years	0.54 (1.14)	2.18 (3.24)	0.49 (1.14)	2.0 (3.04)
12-16 years	0.48 (1.18)	2.02 (3.05)	0.35 (1.10)	1.65 (2.52)

In the 12-16 year age group the 95% confidence intervals of the centiles for boys and girls do not overlap.

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### Valori normali Frequenza cardiaca normalizzati per età



### Valori normali PR x età

### Valori normali QRS x età

Età	PR msec	Età	QRS durata
1-30 giorni	80-120	1-30 giorni	< 65 msec
1 mese-1 anno	80-140	1 mese - 16 anni	< 80 msec
1-5 anni	100-160	adulti	80 - < 100 msec
6-12 anni	110-180		
> 12 anni	120-220		