

13 yr	97.8	36.6
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Modified from Lowrey GH: *Growth and development of children*, ed 8, St. Louis, 1986, Mosby.

Normal Heart Rates for Infants and Children

Age	RATE (beats/min)		
	Resting (Awake)	Resting (Sleeping)	Exercise (Fever)
Newborn	100-180	80-160	≤220
1 wk-3 mo	100-220	80-200	≤220
3 mo-2 yr	80-150	70-120	≤200
2-10 yr	70-110	60-90	≤200
10 yr-adult	55-90	50-90	≤200

From Gillette PC: Dysrhythmias. In Adams FH, Emmanoulides GC, Riemenschneider TA, editors: *Moss' heart disease in infants, children, and adolescents*, ed 4, Baltimore, 1989, Williams & Wilkins.

Normal Respiratory Rates for Children

Age	Rate (breaths/min)
Newborn	35
1-11 mo	30
2 yr	25
4 yr	23
6 yr	21
8 yr	20
10 yr	19
12 yr	19
14 yr	18
16 yr	17
18 yr	16-18