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Vital Signs in Children

Normal Heart Rates* (beats/min)

Age	Awake Rate	Sleeping Rate
Neonate	100-200	90-160
Infant	100-160	90-160
Toddler	95-140	80-120
Preschooler	80-120	65-100
School-aged child	75-118	58-90
Adolescent	60-100	50-90

Normal Respiratory Rates (breaths/min)

Age	Rate
Infant	30-60
Toddler	22-37
Preschooler	20-28
School-aged child	18-25
Adolescent	12-20

Normal Blood Pressures

Age	Systolic Pressure (mm Hg) ¹	Diastolic Pressure (mm Hg) ²	Mean Arterial Pressure (mm Hg) ³
Birth (12 h, <1000 g)	39-59	16-36	28-42 ⁴
Birth (12 h, ≥1 kg)	60-76	31-45	48-57
Neonate (24 h)	67-84	35-53	45-60
Infant (1-12 mo)	72-104	37-56	50-62
Toddler (1-2 y)	80-106	42-63	49-62
Preschooler (3-5 y)	89-112	46-72	58-69
School-aged child (6-7 y)	97-115	57-76	66-72
Preadolescent (10-12 y)	102-120	61-80	71-79
Adolescent (12-15 y)	110-131	64-83	73-84

*Always consider the patient's normal range and clinical condition. Heart rate will normally increase with fever or stress.

¹Systolic and diastolic blood pressure ranges assume 50th percentile for height for children 1 year and older. Mean arterial pressure (diastolic pressure + [difference between systolic and diastolic pressure]/3) for 1 year and older, assuming 50th percentile for height.

²Approximately equal to pulse/heart rate, age 18 years (may differ with age).

³Reproduced from Rosow AM. Children are different. In: Rudolph AM, ed. *Staring Data of the University of Guelph*. 3rd ed. St Louis, MO: Mosby; 1993:4-15, copyright Elsevier. Data from Samuels M, Mangione R, Mann C. The first 12 hours of life: a longitudinal study of blood pressure during the first year of life. *Am J Physiol*. 1990;160(5):1148-1150. Copyright 1990. Kluwer Academic Publishers, Boston, MA. Copyright 1990. Gregory GA, Boring RM. Arterial blood pressure during the first 12 hours of life in infants with birth weight 675 to 4,200 grams. *Pediatrics*. 1981;67(4):507-513. Rosow M, Zwartink AL. Analysis of the evidence for the lower limit of systolic and mean arterial pressure in children. *Pediatric Crit Care Med*. 2007;12(1):106-114, and National High Blood Pressure Education Working Group on High Blood Pressure in Children and Adolescents. The Fourth Report on the Diagnosis, Evaluation, and Treatment of High Blood Pressure in Children and Adolescents. Bethesda, MD: National Heart, Lung, and Blood Institute; 2004. Nhlbi publication 05-05707.

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