

Pediatric Cardiac Arrest Algorithm

Continued in PALS (continued)

Pediatric Bradycardia With a Pulse Algorithm

Continued in PALS (continued)

PALS Management of Shock After ROSC Algorithm

Continued in PALS (continued)



American
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NURSES

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Vital Signs in Children

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Normal Heart Rates*

Age	Awake rate	Sleeping rate (bradycardia)
Neonate	100-200	90-160
Infant	100-160	90-160
Toddler	90-140	80-120
Preschooler	80-120	60-100
School-age child	70-110	50-90
Adolescent	60-100	50-90

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

Normal Respiratory Rates*

Age	Rate (breaths/min)
Infant	30-50
Toddler	22-32
Preschooler	20-30
School-age child	18-26
Adolescent	12-20

*Consider the patient's normal range. The child's respiratory rate is expected to increase in the presence of fever or stress.

Data from Manning B et al. (2005) *Journal of Intensive Care Medicine* 16(1): 1-10.

Normal Blood Pressures

Age	Systolic pressure (mm Hg)*	Diastolic pressure (mm Hg)*	Mean arterial pressure (mm Hg)*
Birth (1.2 kg, 50 cm)	70-90	30-50	20-40
Birth (1.2 kg, 50 cm)	80-90	31-45	40-50
Neonate (2.5 kg)	80-90	30-50	40-50
Infant (10-12 mo)	70-100	30-50	50-60
Toddler (1-2 yr)	80-100	40-60	60-80
Preschooler (3-5 yr)	80-110	40-70	60-80
School-age child (6-9 yr)	90-110	50-70	60-70
School-age child (10-12 yr)	100-120	60-80	70-70
Adolescent (12-15 yr)	110-120	60-80	70-80

*Systolic and diastolic blood pressure ranges assume 50th percentile for height for children 1 year and older. Mean arterial pressures: Diastolic pressure + 1/3 difference between systolic and diastolic pressures + 20 for 1 year and older, assuming 50th percentile for height.

*Approximately equals pulse pressure age in weeks (may add 5 mm Hg).

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Emilie Sanchez



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