



**American  
Heart  
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AMERICAN  
ASSOCIATION  
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NURSES

# PALS

## Vital Signs in Children

### Heart Rate (per minute)

Age	Awake Rate	Sleeping Rate
Newborn to 3 months	85 to 205	80 to 160
3 months to 2 years	100 to 190	75 to 160
2 to 10 years	60 to 140	60 to 90
>10 years	60 to 100	60 to 90

### Respiratory Rate (breaths/min)\*

Age	Rate
Infant	30 to 60
Toddler	24 to 40
Preschooler	22 to 34
School-aged child	18 to 30
Adolescent	12 to 16

## Definition of Hypotension by Systolic Blood Pressure and Age

Age	Systolic Blood Pressure (mm Hg)
Term neonates (0 to 28 days)	<60
Infants (1 to 12 months)	<70
Children 1 to 10 years (5th BP percentile)	<70 + (age in years x 2)
Children >10 years	<90

## Modified Glasgow Coma Scale for Infants and Children†

	Child	Infant	Score
<b>Eye opening</b>	Spontaneous	Spontaneous	4
	To speech	To speech	3
	To pain	To pain	2
	None	None	1
<b>Best verbal response</b>	Oriented, appropriate	Coos and babbles	5
	Confused	Irritable, cries	4
	Inappropriate words	Cries in response to pain	3
	Incomprehensible sounds	Moans in response to pain	2
	None	None	1
<b>Best motor response‡</b>	Obeys commands	Moves spontaneously and purposely	6
	Localizes painful stimulus	Withdraws in response to touch	5
	Withdraws in response to pain	Withdraws in response to pain	4
	Flexion in response to pain	Abnormal flexion posture to pain	3
	Extension in response to pain	Abnormal extension posture to pain	2
	None	None	1

\*Reproduced from Hazinski MF. Children are different. In: *Manual of Pediatric Critical Care*, 1999:1-13. From Hazinski MF. Children are different. In: *Nursing Care of the Critically Ill Child*, 2nd ed, 1992:1-17. Both © Elsevier.

†Modified from Davis RJ et al. Head and spinal cord injury. In: Rogers MC, ed. *Textbook of Pediatric Intensive Care*, 1987:649-699. © Lippincott Williams & Wilkins; James HE, Trauner DA. The Glasgow Coma Scale. In: James HE et al, eds. *Brain Injuries in Infants and Children*, 1985:179-182; and Hazinski MF. Neurologic disorders. In: *Nursing Care of the Critically Ill Child*, 2nd ed, 1992:521-628. © Elsevier.

‡If the patient is intubated, unconscious, or preverbal, the most important part of this scale is motor response. Providers should carefully evaluate this component.

# Pals Code From Manual

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## **Pals Code From Manual:**

**Proceedings of Mechanical Engineering Research Day 2022** Amrik Singh Phuman Singh ,Mohd Fadzli Bin Abdollah ,Hilmi Amiruddin ,Mastura Mohammad Taha,2022-08-31 This open access e proceeding is a compilation of 134 articles presented at the 8th Mechanical Engineering Research Day MERD 22 Kampus Teknologi UTeM Melaka Malaysia on 13 July 2022 Collaborative Efforts for Understanding the Human Brain Sook-Lei Liew,Lianne Schmaal,Neda

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**Cumulated Index to the Books** ,1999      Byte ,1991      WESCON ... Conference Record ,1986      **Technology and the Limitation of International Conflict (Fpi Papers in International Affairs)** Barry M. Blechman,1989-04-18

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