



# 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	50 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 × 2)
Children >10 years	<90

### Modified Glasgow Coma Scale for Infants and Children†

	Child	Infant	Score
Eye opening	Spontaneous	Spontaneous	4
	To speech	To speech	3
	To pain	To pain	2
	None	None	1
Best verbal response	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
Best motor response <sup>‡</sup>	None	None	1
	Obeys commands	Moves spontaneously and purposefully	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. 1992:521-528. © Elsevier.

<sup>‡</sup>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 Pocket Reference Guide

**Barbara Aehlert**

## **Pals Pocket Reference Guide:**

Pediatric Anesthesia: A Guide for the Non-Pediatric Anesthesia Provider Part I Bharathi Gourkanti, Irwin Gratz, Grace Dippo, Nathalie Peiris, Dinesh K. Choudhry, 2022-04-11 Pediatric Anesthesia A Guide for the Non Pediatric Anesthesia is a comprehensive contemporary reference that addresses all aspects of pediatric anesthesia Both students and medical practitioners novice and experienced will find invaluable educational and practical information in this book The book covers the subject in two parts Part I covers basic information about pediatric and neonatal anatomy and physiology pharmacology emergency room and operating room procedures and surgery Chapters on general anesthetic procedures in emergency rooms operational theatres and common surgeries Part II covers advanced topics for practicing healthcare professionals which include anesthesia for patients with a range of common and uncommon comorbidities considerations for critically ill patients genetic disorders pain management COVID 19 guidelines for anesthesia patient safety and research Key features Basic and advanced information about pediatric and neonatal anesthesia covered in 25 chapters over two parts Simple and organized presentation for learners Contributions by expert clinicians and researchers Special topics included such as considerations for patients with comorbidities and genetic disorders References for further reading Detailed illustrations and tables The text is an essential reference for scholars and professionals affiliated with general anesthesiology and surgery specialties at all levels who want to understand anesthesia for pediatric patients Pediatric Advanced Life Support Course Guide American Heart Association, 2006 At head of title American Heart Association Developments in Aging United States. Congress. Senate. Special Committee on Aging, 2004 108-2: Senate Report No. 108-265, Vol. 2, \*, 2004

Pediatric Advanced Life Support Study Guide Barbara Aehlert, 2005 The second edition of this study guide by popular author Barbara Aehlert incorporates both prehospital and hospital management of pediatric emergencies In a concise easy to read outline format Pediatric Advanced Life Support Study Guide 2nd Edition provides the most essential information a provider needs Pediatric Advanced Life Support Study Guide 2nd Edition reflects the 2000 emergency cardiovascular care guidelines It is also the approved text for the American Safety contact your sales representative for details An outline format featuring bulleted lists concise tables and a user friendly writing style makes this comprehensive text incredibly easy to read and understand A Pretest and a Posttest consisting of multiple choice true false fill in the blank and essay questions tests readers overall comprehension of the material PALS Pearl Boxes help readers apply information covered in the text to real life clinical situations Sidebars contain additional information relevant to the topics covered in the chapter giving readers an opportunity for further learning A laminated quick reference card gives practitioners easy access to critical information in the field or hospital This convenient card includes essential information regarding respiratory and heart rates blood pressure basic life support interventions Glasgow Coma Scale airway size and equipment selection for intubation corresponding to the Broselow Resuscitation Tape several pediatric algorithms and pain assessment tools FREE quick reference card included

Clinical Therapeutics Primer Jennifer A. Reinhold, Grace Earl, 2014 Clinical Therapeutics Primer Link to the Evidence for the Ambulatory Care Pharmacist is a valuable resource for pharmacy students new pharmacist practitioners and practicing pharmacists in the ambulatory setting Organized by therapeutic concentration this in depth text will assist the reader in mastering the skills required to successfully assess and treat commonly encountered outpatient medical conditions such as diabetes hypertension chronic pain and more Featuring over 40 practical cases and the patient centered care approach Clinical Therapeutics Primer provides an evidence based field guide for applying complex concepts into best clinical practices Key Features Key Terms Learning Objectives Over 40 Sample Patient Cases Treatment Algorithms Key Terminology Review Clinical Pearls Discussion Questions Web Resources *ACLS Study Guide* Barbara Aehlert, 2007 Written in a conversational style the 3rd edition of the ACLS Study Guide features unique user friendly and easy to remember treatment algorithms totally revised to reflect the 2005 emergency cardiac care guidelines Full color throughout it offers a complete concise overview of advanced cardiovascular life support ACLS acute coronary syndromes and acute stroke It also features easy to access information with Stop and Review quizzes in each chapter and a comprehensive pretest and posttest New to this edition are a handy ACLS quick reference fold out card a heart rate ruler and more In addition to being an outstanding study tool the ACLS Study Guide 3rd Edition is the official text for the American Safety and Health Institute ACLS certification course For more information on ASHI courses call 800 246 5101 or visit [www.ashinstitute.com](http://www.ashinstitute.com) A pretest and posttest each containing 50 questions with answers and rationales provide readers with opportunities to check comprehension prior to and after study Chapter Objectives allow readers to preview the main points in each chapter Quick Review boxes throughout the chapters and Stop and Review sections at the end of the chapters test reader comprehension of the material Chapters 1 8 comprise a Preparatory section to provide the foundation for the case presentations in the second section Ten case studies present real life clinical situations enabling the reader to make decisions based on information in the Preparatory section Consistent organization of case studies include Objective Skills to Master Rhythms to Master Medications to Master Related Text Chapters Questions Answers Essential Actions and Unacceptable Actions to aide in the study and mastery of material Unique treatment algorithms totally revised to reflect the 2005 emergency cardiac care guidelines simplify the new treatment guidelines making them easier to use and remember Chapter on Stroke has now been expanded to include Special Resuscitation Situations ACLS Pearl boxes contain key points and useful tips for clinical practice Keeping it Simple boxes contain essential information in a clear and concise manner A heart rate ruler is included to help determine heart rate while practicing ECG recognition A 4 x 6 pocket size quick reference card with key ACLS algorithms is included for field use Vascular Access and Medications combined into one chapter to present venous circulation information with all relevant common medications used during a cardiac related emergency **Whitaker's Books in Print**, 1998

**Primary Literacy Centers** Susan Nations, Melissa Alonso, 2000 For K 3 teachers Seven easy to maintain centers help

you work smarter not harder as you connect standards based reading and writing instruction with student application of skills and strategies Your literacy centers will become focused places of learning keeping you free to teach small groups and minimize student interruption and you control how to fit the centers into your day Primary Literacy Centers Supports the balanced literacy approach Features 36 language arts mini lessons with easy to use center connections Correlates to NCTE IRA National Language Arts Standards Incorporates both fiction and nonfiction text and Gives students time to practice and apply literacy block skills and strategies that you teach and model UL Here s everything you need to know to set up and manage centers in a balanced literacy framework for Reading Word Work Read the Room Listening Research Literature Response Writing and Poetry Make literacy centers a vital part of your classroom *Profile's Stock Exchange Handbook*, 2006 *Bookbuyers' Reference Book*, 1973 **Resuscitation: Key Data** Michael J. A. Parr, Timothy M. Craft, 2004-12-11

**Natural Therapeutics Pocket Guide** James B. Lavalle, Daniel L. Krinsky, Ross Pelton, 2003 A resource guide for healthcare professionals counseling patients about the appropriate use of natural products and therapies A quick reference this edition contains an additional 200 references over 175 monographs and information on over 75 conditions Intended to help improve health not present cures this guide is a first step for suggesting natural therapeutics as part of health management *Reference Guide to Short Fiction* Thomas Riggs, 1999 Reference Guide to Short Fiction provides study and commentary on the most instrumental writers of short fiction through the 20th century International in scope this single scholarly volume includes 779 entries on 377 authors and 402 short stories *Construction Safety Handbook*, *Color on the Land* Irene I. Luethge, 2005-07 **ACLS Quick Review Study Cards** Barbara Aehlert, Barbara J Aehlert, Msed Bspa RN, 1994 Perforated cards in a book format feature a review question and ECG tracing on the front of the card with the answer and rationale on the back Color coded cards are designed to correspond with discussions in the author s text ACLS Quick Review Study Guide 500 cards **Reference Guide to Short Fiction** Noelle Watson, 1994 Devoted to those practitioners of the art of short fiction this new 2nd edition offers thorough coverage of approximately 375 authors and 400 of their works In a single volume Reference Guide to Short Fiction features often studied authors from around the world and throughout history all selected for inclusion by a board of experts in the field Reference Guide to Short Fiction is divided into two sections for easy study The first section profiles the authors and offers personal and career details as well as complete bibliographical information A signed essay helps readers understand more about the author These authors are covered Sandra Cisneros Nikolai Gogol Ernest Hemingway Langston Hughes Gabriel Garcia Marquez Salman Rushdie Jean Paul Sartre Edith Somerville Eudora Welty And others Section two helps readers gain deeper understanding of the authors and the genre with critical essays discussing 400 important works including The Hitchhiking Game Milan Kundera The Swimmer John Cheever The Dead James Joyce A Hunger Artist Franz Kafka How I Met My Husband Alice Munro Kew Gardens Virginia Woolf This one stop guide also provides easy access to works through the title index *AV Guide*, 1998 *Pediatric*

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