

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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AMERICAN
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NURSES

PALS

Vital Signs in Children

These tables are reproduced or modified from *Nursing for Children* by American Heart Association, Inc. Nursing Care of the Critically Ill Child, 3rd ed. (London, 2011) 1-18, copyright Elsevier.

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	75-110	60-90
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 Fleming B et al. *Journal of Intensive Care Medicine*, 1991; 6: 10-14.

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)	60-70	31-45	40-57
Neonate (2.5 kg)	67-84	35-53	45-60
Infant (11-12 mo)	72-104	37-54	50-63
Toddler (1-2 yr)	80-106	42-63	49-62
Preschooler (3-5 yr)	88-112	48-72	58-80
School-age child (6-9 yr)	97-115	57-74	66-77
School-age child (10-12 yr)	100-120	61-80	71-79
Adolescent (12-15 yr)	110-121	64-83	73-84

*Systolic and diastolic blood pressure ranges describe 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, describing 50th percentile for height.

*Approximately equals pulse-pressure age in weeks (may add 5 mm Hg).
Data from Gennarelli et al. *For Children* (1991) 10:10-15; 1992; 10:10-15; 1993; 10:10-15; 1994; 10:10-15; 1995; 10:10-15; 1996; 10:10-15; 1997; 10:10-15; 1998; 10:10-15; 1999; 10:10-15; 2000; 10:10-15; 2001; 10:10-15; 2002; 10:10-15; 2003; 10:10-15; 2004; 10:10-15; 2005; 10:10-15; 2006; 10:10-15; 2007; 10:10-15; 2008; 10:10-15; 2009; 10:10-15; 2010; 10:10-15; 2011; 10:10-15; 2012; 10:10-15; 2013; 10:10-15; 2014; 10:10-15; 2015; 10:10-15; 2016; 10:10-15; 2017; 10:10-15; 2018; 10:10-15; 2019; 10:10-15; 2020; 10:10-15; 2021; 10:10-15; 2022; 10:10-15; 2023; 10:10-15; 2024; 10:10-15; 2025; 10:10-15; 2026; 10:10-15; 2027; 10:10-15; 2028; 10:10-15; 2029; 10:10-15; 2030; 10:10-15; 2031; 10:10-15; 2032; 10:10-15; 2033; 10:10-15; 2034; 10:10-15; 2035; 10:10-15; 2036; 10:10-15; 2037; 10:10-15; 2038; 10:10-15; 2039; 10:10-15; 2040; 10:10-15; 2041; 10:10-15; 2042; 10:10-15; 2043; 10:10-15; 2044; 10:10-15; 2045; 10:10-15; 2046; 10:10-15; 2047; 10:10-15; 2048; 10:10-15; 2049; 10:10-15; 2050; 10:10-15; 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2240; 10:10-15; 2241; 10:10-15; 2242; 10:10-15; 2243; 10:10-15; 2244; 10:10-15; 2245; 10:10-15; 2246; 10:10-15; 2247; 10:10-15; 2248; 10:10-15; 2249; 10:10-15; 2250; 10:10-15; 2251; 10:10-15; 2252; 10:10-15; 2253; 10:10-15; 2254; 10:10-15; 2255; 10:10-15; 2256; 10:10-15; 2257; 10:10-15; 2258; 10:10-15; 2259; 10:10-15; 2260; 10:10-15; 2261; 10:10-15; 2262; 10:10-15; 2263; 10:10-15; 2264; 10:10-15; 2265; 10:10-15; 2266; 10:10-15; 2267; 10:10-15; 2268; 10:10-15; 2269; 10:10-15; 2270; 10:10-15; 2271; 10:10-15; 2272; 10:10-15; 2273; 10:10-15; 2274; 10:10-15; 2275; 10:10-15; 2276; 10:10-15; 2277; 10:10-15; 2278; 10:10-15; 2279; 10:10-15; 2280; 10:10-15; 2281; 10:10-15; 2282; 10:10-15; 2283; 10:10-15; 2284; 10:10-15; 2285; 10:10-15; 2286; 10:10-15; 2287; 10:10-15; 2288; 10:10-15; 2289; 10:10-15; 2290; 10:10-15; 2291; 10:10-15; 2292; 10:10-15; 2293; 10:10-15; 2294; 10:10-15; 2295; 10:10-15; 2296; 10:10-15; 2297; 10:10-15; 2298; 10:10-15; 2299; 10:10-15; 2300; 10:10-15; 2301; 10:10-15; 2302; 10:10-15; 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2492; 10:10-15; 2493; 10:10-15; 2494; 10:10-15; 2495; 10:10-15; 2496; 10:10-15; 2497; 10:10-15; 2498; 10:10-15; 2499; 10:10-15; 2500; 10:10-15; 2501; 10:10-15; 2502; 10:10-15; 2503; 10:10-15; 2504; 10:10-15; 2505; 10:10-15; 2506; 10:10-15; 2507; 10:10-15; 2508; 10:10-15; 2509; 10:10-15; 2510; 10:10-15; 2511; 10:10-15; 2512; 10:10-15; 2513; 10:10-15; 2514; 10:10-15; 2515; 10:10-15; 2516; 10:10-15; 2517; 10:10-15; 2518; 10:10-15; 2519; 10:10-15; 2520; 10:10-15; 2521; 10:10-15; 2522; 10:10-15; 2523; 10:10-15; 2524; 10:10-15; 2525; 10:10-15; 2526; 10:10-15; 2527; 10:10-15; 2528; 10:10-15; 2529; 10:10-15; 2530; 10:10-15; 2531; 10:10-15; 2532; 10:10-15; 2533; 10:10-15; 2534; 10:10-15; 2535; 10:10-15; 2536; 10:10-15; 2537; 10:10-15; 2538; 10:10-15; 2539; 10:10-15; 2540; 10:10-15; 2541; 10:10-15; 2542; 10:10-15; 2543; 10:10-15; 2544; 10:10-15; 2545; 10:10-15; 2546; 10:10-15; 2547; 10:10-15; 2548; 10:10-15; 2549; 10:10-15; 2550; 10:10-15; 2551; 10:10-15; 2552; 10:10-15; 2553; 10:10-15; 2554; 10:10-15; 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American Heart Association Pals Study Guide 2015

Osama Naga



American Heart Association Pals Study Guide 2015:

Pediatric Advanced Life Support Study Guide Aehlert, 2017-01-16 Fully revised to meet the 2015 CPR ECC Guidelines and to prepare students and professionals for PALS certification and recertification Pediatric Advanced Life Support Study Guide Fourth Edition provides a clear and complete approach to managing pediatric emergencies Designed for use by the spectrum of healthcare professionals the Fourth Edition provides users with the critical information needed to approach real life pediatric emergencies The Fourth Edition includes End of chapter quizzes with answers and objectives as well as a comprehensive posttest to gauge material comprehension Case studies at the end of appropriate chapters for practice with real world material application Clear procedural explanations written in descriptive yet accessible language A refined Table of Contents including standalone chapters on cardiac dysrhythmias for focused learning and study PALS Pearl boxes for text to everyday clinical application In text references for deeper research if desired *Pediatric Board Study Guide* Osama Naga, 2025-01-18 The second edition of this text has proved to be a very successful pediatric study guide helping many pediatricians around the world to study pediatrics in a very easy simplified way Even the most complex subjects are condensed into very straight forward and easy to remember information blocks This book not only prepares students to pass their exams but also prepares pediatricians for general pediatric encounters emphasizing all new updates from the American Academy of Pediatrics and American Board of Pediatrics It has proved very popular among new pediatricians and new pediatric residents worldwide In the last 3 years the AAP and ABP have released a lot of updates such as management of fever in well appearing infants COVID 19 asthma management and new vaccine guidelines from the CDC The pediatric board exam always includes new diseases which are included in each chapter as well as new questions and answers that must be added to the last minute review chapter as well as other questions to be edited to follow the new recommendations and guidelines in pediatrics New pictures and better quality illustrations are also included Pediatric residents and fellows preparing for the board examination pediatricians and pediatric subspecialists preparing for certification maintenance will find Pediatric Board Study Guide A Last Minute Review 3rd edition easy to use and comprehensive making it the ideal resource and study tool *Pediatric Board Study Guide* Osama I. Naga, 2019-11-06 Building upon the highly successful 1st edition this book is a comprehensive review designed to prepare pediatric residents fellows and pediatricians for the General Pediatrics Certifying Examination and for the American Board of Pediatrics Maintenance of Certification Pediatric Board Study Guide A Last Minute Review 2nd edition covers all aspects of pediatric medicine each chapter has been updated according to the most recent content specifications provided by the ABP The 2nd edition provides more illustrations diagrams radiology images and clinical case scenarios to further assist readers in reviewing pediatric subspecialties New chapter topics include nutrition sports medicine patient safety quality improvement ethics and pharmacology Finally the book closes with a Last Minute Review of high yield cases arranged in the same sequence as the chapters providing readers with a

concise study guide of critical cases and conditions Pediatric residents and fellows preparing for the board examination pediatricians and pediatric subspecialists preparing for certification maintenance will find Pediatric Board Study Guide A Last Minute Review 2nd edition easy to use and comprehensive making it the ideal resource and study tool Handbook of Pediatric & Neonatal Emergencies S Sushamabai,2019-06-30 This book provides clinicians and trainees with the latest advances and procedures in the management of paediatric and neonatal emergencies Divided into 16 sections the text begins with discussion on the concept of intensive care resuscitation and diagnosis of an acutely sick child The following chapters cover the treatment of emergency scenarios in different systems of the body respiratory cardiovascular nervous endocrine renal and gastrointestinal The book concludes with sections on infectious diseases oncology accidents and poisoning and neonatology A chapter on drug dosages is also included Topics are presented in a step by step systematic approach further enhanced by photographs diagrams flowcharts and tables to assist learning Key points Comprehensive guide to latest advances in management of paediatric and neonatal emergencies Covers emergency scenarios in all anatomical systems Includes section on paediatric drug dosages Highly illustrated with photographs diagrams flowcharts and tables **Clinical Manual of Emergency Pediatrics** Jeffrey C. Gershel, Ellen F. Crain, Sandra J. Cunningham, James A. Meltzer, 2018-06-14 User friendly handbook providing critical guidance at point of care for practitioners and trainees caring for sick and injured children , **Respiratory Care: Principles and Practice** Dean R. Hess, Neil R. MacIntyre, William F. Galvin, 2020-01-15 More than an introductory text Respiratory Care Principles and Practice Fourth Edition by Dean Hess is a comprehensive resource will be referenced and utilized by students throughout their educational and professional careers *Advanced Anesthesia Review* Alaa Abd-Elseyed, 2023 Advanced Anesthesia Review provides a comprehensive knowledge review for all second year US Anesthesiology residents taking the American Board of Anesthesiology's ABA Advanced Exam A companion to Basic Anesthesia Review this essential review features concise and readable chapters covering the relevant knowledge and concepts as determined by the ABA's curriculum While multiple books are available for board review very few have published since the ABA restructured board examinations Advanced Anesthesia Review is organized topically according to the most recently published ABA curriculum and highlights ABA key words along with bulleted key points to reinforce key concepts and facts PALS Specialty Review and Study Guide Whitten, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing *Wong's Nursing Care of Infants and Children - E-Book* Marilyn J. Hockenberry, 2022-12-23 American Journal of Nursing AJN Book of the Year Awards 1st Place in Child Health Provide quality nursing care through each stage of child development Wong's Nursing Care of Infants and Children 12th Edition uses an

easy to follow family centered approach to describe the care of children at each age and stage of development The book begins with a discussion of the influences on and assessment of child health then provides chapters on child health promotion and health problems all organized by age groups and body systems Up to date evidence based information helps you develop critical thinking skills along with the sensitivity needed to become a compassionate caring pediatric nurse Written by a team of experts led by Marilyn J Hockenberry Wong s continues to be the leading text in pediatric nursing Focus on family centered care emphasizes the role and influence of the family in child health and illness with a separate chapter and Family Centered Care boxes Full color drawings and photographs reflect the latest in nursing care Nursing Care Guidelines boxes offer clear step by step instructions for interventions in a variety of situations and conditions and Nursing Care Plan boxes included expected patient outcomes and rationales for nursing interventions Nursing Tips include helpful hints and practical clinical information Translating Evidence into Practice and Applying Evidence to Practice boxes help you apply research to improve the outcomes of nursing care Atraumatic Care boxes contain techniques for care that manage pain discomfort or stress along with approaches to promote self esteem and prevent embarrassment Emergency Treatment boxes serve as a quick reference for interventions in critical situations Cultural Considerations and Cultural Competence content provides tips from clinical experts Community and Home Health Considerations boxes address issues such as increasing immunization rates decreasing smoking among teens and preventing lead poisoning Drug Alerts highlight important drug related information for safe appropriate care Nursing Alerts call out critical considerations such as key assessment data risk factors and danger signs that must be considered in providing care Research Focus boxes emphasize research with concise reviews of important evidence

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Emergency Medical Services, 2 Volumes Jane H. Brice, Theodore R. Delbridge, J. Brent Myers, 2021-11-17 The two volume Emergency Medical Services Clinical Practice and Systems Oversight delivers a thorough foundation upon which to succeed as an EMS medical director and prepare for the NAEMSP National EMS Medical Directors Course and Practicum Focusing on EMS in the real world the book offers specific management tools that will be useful in the reader s own local EMS system and provides contextual understanding of how EMS functions within the broader emergency care system at a state local and national level The two volumes offer the core knowledge trainees will need to successfully complete their training and begin their career as EMS physicians regardless of the EMS systems in use in their areas A companion website rounds out the book s offerings with audio and video clips of EMS best practice in action Readers will also benefit from the inclusion of A thorough introduction to

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