



PALS

Vital Signs in Children

Normal Heart Rates* (beats/minute)

Age	Awake Rate	Sleeping Rate
Neonate	100-210	80-100
Infant	100-180	90-100
Toddler	90-140	80-120
Preschooler	80-120	65-100
School-aged child	75-115	55-90
Adolescent	60-100	50-90

Normal Respiratory Rates (breaths/minute)

Age	Rate
Infant	30-60
Toddler	22-32
Preschooler	20-28
School-aged child	18-25
Adolescent	12-20

Normal Blood Pressures

Age	Systolic Pressure (mm Hg) [†]	Diastolic Pressure (mm Hg) [†]	Mean Arterial Pressure (mm Hg) [†]
Birth (12 in, <1000 g)	30-50	10-20	21.8-32.1
Birth (12 in, 3 kg)	60-70	31-40	48.5-57
Neonate (30-35 in)	67-84	30-50	43-50
Infant (1-12 mos)	72-104	37-56	50-62
Toddler (1-3 yr)	80-100	42-63	59-62
Preschooler (3-5 yr)	85-112	46-72	63-69
School-aged child (5-7 yr)	97-115	57-76	66-72
Preschooler (5-12 yr)	102-120	61-80	71.5-79
Adolescent (12-19 yr)	110-131	64-83	73-84

*Always consider the patient's normal range and clinical presentation. These rates will markedly increase with fever or exercise.

[†]Estimated arm blood pressure (systolic pressure diastolic pressure) for heights less than 100 cm. If your child's height is greater than 100 cm, calculate pressure as (systolic pressure + (diastolic pressure × 10)) for 1 year and older, increasing 10 mm Hg per year for height.

Approximately 80% of preschoolers have a mean arterial pressure within 10 mm Hg of average age.

Approximately 90% of children ages 2-10 years have a systolic pressure within 10-15 mm Hg of average age. The systolic pressure is usually 60-70% of the diastolic pressure during this first year of life. At 1 year of age, systolic pressure is 60-70% of the diastolic pressure, and at 2 years of age, 70-80%.

Approximately 90% of children ages 10-12 years have a systolic pressure within 10-15 mm Hg of average age. The systolic pressure is 70-80% of the diastolic pressure, and at 12 years of age, 80-90%.

Approximately 90% of children ages 12-14 years have a systolic pressure within 10-15 mm Hg of average age. The systolic pressure is 80-90% of the diastolic pressure, and at 14 years of age, 90-100%.

Approximately 90% of children ages 14-18 years have a systolic pressure within 10-15 mm Hg of average age. The systolic pressure is 90-100% of the diastolic pressure, and at 18 years of age, 100-110%.

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WJ Hussar

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Schafermeyer, Milton Tenenbein, Charles G. Macias, Ghazala Sharieff, Loren Yamamoto, 2018-09-22 Concise current need to know coverage of emergency medicine in children presented in full colorEndorsed by the American College of Emergency Physicians a comprehensive and current resource for anyone who cares for children in an acute setting from the office to the emergency department Its presentation is straightforward and the information is easy to read and assimilate It will be a valuable resource for those in the field of pediatric emergency medicine as well as other practitioners who occasionally care for sick children JAMA reviewing an earlier edition This clinically focused guide covers the entire field of pediatric emergency medicine Featuring a strong focus on practical need to know information Pediatric Emergency Medicine Fifth Edition is bolstered by numerous full color images bulleted High Yield Facts at the beginning of each chapter nearly 100 diagnostic and treatment algorithms and treatment tables with drug dosages Endorsed by the American College of Emergency Physicians this book is perfect for use in the emergency department or the pediatric clinic FEATURES Chapters open with bulleted High Yield Facts followed by just enough pathophysiology for understanding and continue with a focus on what needs to be done to protect and save the child Broad scope spans the full spectrum of pediatric emergencies from trauma care to psychosocial emergencies NEW CHAPTER on Brief Resolved Unexplained Events BRUE Opens with an important symptom based section of Cardinal Presentations that familiarizes you with crucial life saving protocols Covers all major categories of disease that present in children on an urgent or emergent basisIf you are in need of a very readable and easily accessible evidence based text written to help you provide high quality emergency medical care to children your search ends here *ACTFL 2005-2015* American Council on the Teaching of Foreign Languages, 2006 The eleven chapters of this ACTFL volume approach language education from a variety of perspectives including the history and current status of language policies language needs of our government and our international businesses teachers teaching and learning assessment instructional technology heritage learners less commonly taught languages and special learners This volume s authors accepted the challenge of answering the following basic questions related to their topic as well as that of expanding upon their themes Where are we now Where should we be or Where could we be How do we realize our vision of languages for all

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1. Understanding the eBook Pals 2015 Study Guide
 - The Rise of Digital Reading Pals 2015 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Pals 2015 Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pals 2015 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pals 2015 Study Guide
 - Personalized Recommendations
 - Pals 2015 Study Guide User Reviews and Ratings
 - Pals 2015 Study Guide and Bestseller Lists
5. Accessing Pals 2015 Study Guide Free and Paid eBooks
 - Pals 2015 Study Guide Public Domain eBooks
 - Pals 2015 Study Guide eBook Subscription Services

- Pals 2015 Study Guide Budget-Friendly Options
- 6. Navigating Pals 2015 Study Guide eBook Formats
 - ePUB, PDF, MOBI, and More
 - Pals 2015 Study Guide Compatibility with Devices
 - Pals 2015 Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pals 2015 Study Guide
 - Highlighting and Note-Taking Pals 2015 Study Guide
 - Interactive Elements Pals 2015 Study Guide
- 8. Staying Engaged with Pals 2015 Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pals 2015 Study Guide
- 9. Balancing eBooks and Physical Books Pals 2015 Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pals 2015 Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pals 2015 Study Guide
 - Setting Reading Goals Pals 2015 Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pals 2015 Study Guide
 - Fact-Checking eBook Content of Pals 2015 Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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