

*Nelson Textbook of*  
**PEDIATRICS**

**19th Edition**

KLIEGMAN  
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# *Nelson Textbook of* **PEDIATRICS**

**19th Edition**

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*Hyperpituitarism, Tall Stature, and  
Overgrowth Syndromes*

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*Principles of Antifungal Therapy*

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Translational Research Branch,  
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*Ankylosing Spondylitis and Other  
Spondyloarthritides; Reactive and  
Postinfectious Arthritis*

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*Pulmonary Alveolar Proteinosis;  
Inherited Disorders of Surfactant  
Metabolism*

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*Suicide and Attempted Suicide*

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*Aspiration Syndromes; Chronic  
Recurrent Aspiration*

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Obstetrics and Gynecology, Division  
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St. Louis, Missouri  
*Vulvovaginal and Müllerian Anomalies*

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*Childhood Asthma*

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*Adolescent Development; Delivery of  
Health Care to Adolescents; The Breast;  
Menstrual Problems; Contraception*

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*Respiratory Syncytial Virus; Human  
Metapneumovirus*

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*Attention-Deficit/Hyperactivity Disorder*

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*Peptic Ulcer Disease in Children*



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*Neisseria gonorrhoeae (Gonococcus)*

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*Haemophilus influenzae*

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*The Foot and Toes; Leg-Length  
Discrepancy; Arthrogryposis*

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*Chancroid (Haemophilus ducreyi);  
Syphilis (Treponema pallidum);  
Nonvenereal Treponemal Infections;  
Leptospira; Relapsing Fever (Borrelia)*

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*Acute Care of the Victim of Multiple  
Trauma*

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*Hemoglobinopathies*

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Texas  
*Aeromonas and Plesiomonas*

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*Assessment and Interviewing;  
Psychologic Treatment of Children and  
Adolescents; Psychosomatic Illness;  
Rumination, Pica, and Elimination  
(Enuresis, Encopresis) Disorders; Habit  
and Tic Disorders; Mood Disorders;  
Suicide and Attempted Suicide;  
Disruptive Behavioral Disorders;  
Pervasive Developmental Disorders and  
Childhood Psychosis*

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*Coronaviruses*

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Ohio  
*Ascariasis (Ascaris lumbricoides);  
Trichuriasis (Trichuris trichiura);  
Enterobiasis (Enterobius vermicularis);  
Strongyloidiasis (Strongyloides  
stercoralis); Lymphatic Filariasis (Brugia  
malayi, Brugia timori, and Wuchereria  
bancrofti); Other Tissue Nematodes;  
Toxocariasis (Visceral and Ocular Larva  
Migrans); Trichinosis (Trichinella  
spiralis)*

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*Breast Concerns*

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*Defects in Metabolism of Lipids; Defects  
in Metabolism of Carbohydrates; The  
Porphyrias*

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*Pediatric Stroke Syndromes*

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*Treatment of Rheumatic Diseases;  
Sarcoidosis*

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*Neoplasms of the Kidney*

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*Marfan Syndrome*

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*Tumors of the Digestive Tract*

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*Development and Function of the  
Gonads; Hypofunction of the Testes;  
Pseudoprecocity Resulting from Tumors  
of the Testes; Gynecomastia;  
Hypofunction of the Ovaries;  
Pseudoprecocity Due to Lesions of the  
Ovary; Disorders of Sex Development*

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*Growth and Development; Evaluation  
of the Child; The Hip; The Spine; The  
Neck; Common Fractures*

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*Hormones and Peptides of Calcium  
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Hypoparathyroidism;  
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Hyperparathyroidism*

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*Marfan Syndrome*

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*Abused and Neglected Children*

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*Spotted Fever and Transitional Group  
Rickettsioses; Scrub Typhus (Orientia  
tsutsugamushi); Typhus Group  
Rickettsioses; Ehrlichioses and  
Anaplasmosis; Q Fever (Coxiella  
burnetii)*

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*Pediatric Palliative Care*

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*Maximizing Children's Health:  
Screening, Anticipatory Guidance, and  
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Brain Abscess*

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*Interfacility Transport of the Seriously  
Ill or Injured Pediatric Patient*

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*Cystic Fibrosis*

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*Congenital Anomalies and Dysgenesis of  
the Kidneys; Urinary Tract Infections;  
Vesicoureteral Reflux; Obstruction of  
the Urinary Tract; Anomalies of the  
Bladder; Neuropathic Bladder; Voiding  
Dysfunction; Anomalies of the Penis and  
Urethra; Disorders and Anomalies of the  
Scrotal Contents; Trauma to the  
Genitourinary Tract; Urinary Lithiasis*

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*Foster and Kinship Care*

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*Adolescent Pregnancy*

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*Poisonings*

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*Health Advice for Children Traveling  
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*Overview and Assessment of Variability;  
The First Year; The Second Year; The  
Preschool Years; Middle Childhood*

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*Adolescent Pregnancy; Adolescent Rape*

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*Hormones of the Hypothalamus and Pituitary; Hypopituitarism*

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*Vasculitis Syndromes*

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*Primary Ciliary Dyskinesia (Immotile Cilia Syndrome)*

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*Bronchomalacia and Tracheomalacia; Congenital Disorders of the Lung*

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*Motility Disorders and Hirschsprung Disease*

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*Sporotrichosis (Sporothrix schenckii)*

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*Physiology of Puberty; Disorders of Pubertal Development*

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*Blastomycosis (Blastomyces dermatitidis)*

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*Behçet Disease; Sjögren Syndrome; Hereditary Periodic Fever Syndromes; Amyloidosis*

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*Long-Term Mechanical Ventilation in the Acutely Ill Child*

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*Group A Streptococcus; Non-Group A or B Streptococci*

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*Genetic Disorders of Neurotransmitters*

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*Pneumocystis jirovecii*

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*Child Care: How Pediatricians Can Support Children and Families*

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*Animal and Human Bites*

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*Wheezing, Bronchiolitis, and Bronchitis*

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*Evaluation of the Sick Child in the Office and Clinic*

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*Other Malabsorptive Syndromes*

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*Neisseria meningitidis (Meningococcus)*

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*Infections in Immunocompromised Persons*

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*Diagnostic Approach to Respiratory Disease; Chronic or Recurrent Respiratory Symptoms; Pulmonary Edema*

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*Diagnostic Approach to Respiratory Disease*

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*Congenital Disorders of the Nose; Acquired Disorders of the Nose; Nasal Polyps; General Considerations and Evaluation; Hearing Loss; Congenital Malformations; External Otitis (Otitis Externa); The Inner Ear and Diseases of the Bony Labyrinth; Traumatic Injuries of the Ear and Temporal Bone; Tumors of the Ear and Temporal Bone*



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Dengue Hemorrhagic Fever; Yellow  
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Hantavirus Pulmonary Syndrome*

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*General Considerations; Disorders  
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Disorders Involving Transmembrane  
Receptors; Disorders Involving Ion  
Transporters; Disorders Involving  
Transcription Factors; Disorders  
Involving Defective Bone Resorption;  
Disorders for Which Defects Are Poorly  
Understood or Unknown*

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*Respiratory Pathophysiology and  
Regulation*

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Health System, Charlottesville,  
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*Sinusitis; Retropharyngeal Abscess,  
Lateral Pharyngeal (Parapharyngeal)  
Abscess, and Peritonsillar Cellulitis/  
Abscess*

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*Biologic and Chemical Terrorism*

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*Campylobacter; Yersinia; Aeromonas  
and Plesiomonas*

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*Headaches*

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*Retinoblastoma; Gonadal and  
Germ Cell Neoplasms; Neoplasms of  
the Liver; Benign Vascular Tumors;  
Rare Tumors*

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*Lymphoma*

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*Congenital Anomalies of the Larynx,  
Trachea, and Bronchi; Foreign  
Bodies of the Airway; Laryngotracheal  
Stenosis and Subglottic Stenosis;  
Neoplasms of the Larynx, Trachea,  
and Bronchi*

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*The Acquired Pancytopenias*

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*The Hip*

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*General Considerations; Disorders Involving Cartilage Matrix Proteins; Disorders Involving Transmembrane Receptors; Disorders Involving Ion Transporters; Disorders Involving Transcription Factors; Disorders Involving Defective Bone Resorption; Disorders for Which Defects Are Poorly Understood or Unknown*

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*The Foot and Toes; Arthrogryposis*

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*Hyperpituitarism, Tall Stature, and Overgrowth Syndromes*

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*Hookworms (Necator americanus and Ancylostoma spp.)*

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*Polycystic Ovary Syndrome and Hirsutism*

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*Neoplasms of the Kidney*

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*Growth and Development; Examination of the Eye; Abnormalities of Refraction and Accommodation; Disorders of Vision; Abnormalities of Pupil and Iris; Disorders of Eye Movement and Alignment; Abnormalities of the Lids; Disorders of the Lacrimal System; Disorders of the Conjunctiva; Abnormalities of the Cornea; Abnormalities of the Lens; Disorders of the Uveal Tract; Disorders of the Retina and Vitreous; Abnormalities of the Optic Nerve; Childhood Glaucoma; Orbital Abnormalities; Orbital Infections; Injuries to the Eye*

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*Gonadal and Germ Cell Neoplasms*

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*Attention-Deficit/Hyperactivity Disorder*

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*Health Advice for Children Traveling Internationally; Giardiasis and Balantidiasis; Malaria (Plasmodium)*

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*Monocytes, Macrophages, and Dendritic Cells; The Complement System; Disorders of the Complement System*

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*Principles of Drug Therapy*

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*Yersinia*

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*Cultural Issues in Pediatric Care*

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*Fever; Fever without a Focus*

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*Hypofunction of the Ovaries;  
Pseudoprecocity Due to Lesions of the  
Ovary*

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(Enuresis, Encopresis) Disorders*

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*Ascariasis (Ascaris lumbricoides);  
Trichuriasis (Trichuris trichiura);  
Enterobiasis (Enterobius vermicularis);  
Strongyloidiasis (Strongyloides  
stercoralis); Lymphatic Filariasis (Brugia  
malayi, Brugia timori, and Wuchereria  
bancrofti); Other Tissue Nematodes;  
Toxocariasis (Visceral and Ocular Larva  
Migrans); Trichinosis (Trichinella spiralis)*

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*Assessment of Growth*

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*Neurodevelopmental Function and  
Dysfunction in the School-Aged Child*

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*Foreign Bodies and Bezoars*

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*Herbs, Complementary Therapies, and  
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Malrotation; Intestinal Duplications,  
Meckel Diverticulum, and Other  
Remnants of the Omphalomesenteric  
Duct; Ileus, Adhesions, Intussusception,  
and Closed-Loop Obstructions;  
Malformations; Ascites*

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*Impact of Violence on Children*

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*Otitis Media*

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*Embryology, Anatomy, and Function of  
the Esophagus; Congenital Anomalies;  
Obstructing and Motility Disorders of  
the Esophagus; Dysmotility; Hiatal  
Hernia; Gastroesophageal Reflux  
Disease; Eosinophilic Esophagitis and  
Non-GERD Esophagitis; Esophageal  
Perforation; Esophageal Varices;  
Ingestions*

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*Interstitial Lung Diseases*

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*Pediatric Stroke Syndromes*

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*Defects in Metabolism of Carbohydrates*

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*Neoplasms and Adolescent Screening for Human Papilloma Virus*

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*Coccidioidomycosis (Coccidioides species)*

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*Emergency Medical Services for Children; Acute Care of the Victim of Multiple Trauma*

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*Blastomycosis (Blastomyces dermatitidis)*

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*Anorectal Malformations; Tumors of the Digestive Tract*

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*Psychosis Associated with Epilepsy; Dysfluency (Stuttering, Stammering); Cholestasis; Liver Abscess*

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*Ethics in Pediatric Care*

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*Chlamydophila pneumoniae; Psittacosis (Chlamydophila psittaci)*

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*Brain Tumors in Childhood*

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*Group B Streptococcus*

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*Histiocytosis Syndromes of Childhood*

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*Thyroid Development and Physiology; Defects of Thyroxine-Binding Globulin; Hypothyroidism; Thyroiditis; Goiter; Hyperthyroidism; Carcinoma of the Thyroid*

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*Systemic Hypertension*

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*Chemical Pollutants*



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Injury; Head and Neck Injuries; Heat  
Injuries; Female Athletes: Menstrual  
Problems and the Risk of Osteopenia;  
Performance-Enhancing Aids; Specific  
Sports and Associated Injuries*

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*Abused and Neglected Children*

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*Varicella-Zoster Virus Infections*

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Pediatric Medicine; The Human  
Genome; Patterns of Genetic  
Transmission; Cytogenetics; Genetics of  
Common Disorders*

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*The Porphyrrias*

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*Brain Death*

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*The Anemias; Congenital Hypoplastic  
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Pearson's Syndrome; Acquired Pure  
Red Blood Cell Anemia; Anemia of  
Chronic Disease and Renal Disease;  
Congenital Dyserythropoietic Anemias;  
Physiologic Anemia of Infancy;  
Megaloblastic Anemias; Iron-Deficiency  
Anemia*

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Treatment of Allergic Disease;  
Allergic Rhinitis; Childhood Asthma;  
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Insect Allergy; Ocular Allergies;  
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Anaphylaxis; Serum Sickness; Adverse  
Reactions to Foods; Adverse Reactions  
to Drugs*

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Major Symptoms and Signs of Digestive  
Tract Disorders; Normal Development,  
Structure, and Function; Pyloric Stenosis  
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Stomach; Intestinal Atresia, Stenosis,  
and Malrotation; Intestinal Duplications,  
Meckel Diverticulum, and Other  
Remnants of the Omphalomesenteric  
Duct; Motility Disorders and  
Hirschsprung Disease; Ileus, Adhesions,  
Intussusception, and Closed-Loop  
Obstructions; Foreign Bodies and  
Bezoars; Functional Abdominal Pain  
(Nonorganic Chronic Abdominal Pain);  
Malformations; Ascites*

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*Principles and Clinical Indications;  
HSCT from Alternative Sources and  
Donors; Graft Versus Host Disease  
(GVHD) and Rejection; Infectious  
Complications of HSCT; Late Effects of  
HSCT*