



Evidence-Based Emergency Imaging : Optimizing Diagnostic Imaging of Patients in the Emergency Care Setting

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- Abstract: This book presents evidence-based criteria to systematically assess the appropriate use of medical imaging in the emergency department and other acute care settings. Over the last decade, there have been profound changes in the diagnostic testing and work-up of patients presenting to the emergency department with emergent symptoms. One of the most far-reaching changes has been the increased availability, speed, and accuracy of imaging due, in part, to technical improvements in imaging modalities such as CT, MR, and PET. Although the use of high-end imaging has plateaued in general, increased utilization continues in the ED. These patients are more acutely ill and there is additional pressure to make an accurate diagnosis as quickly as possible to facilitate prompt disposition or treatment. There is also strong evidence for the beneficial use of imaging in the emergency setting that results in improved patient outcomes. This book answers that need by providing protocols and guidelines for neuroradiological, cardiothoracic, abdominal and pelvic, musculoskeletal, and pediatric imaging are reviewed in terms of the available imaging modalities, diagnostic criteria, and treatment options. Distinguished by its unique focus on evidence-based emergency imaging in adults, children, and special populations, this book is a unique resource for radiologists, emergency medicine physicians, and physicians in other specialties who need to be informed about the most appropriate uses of diagnostic imaging in the emergency care setting.

Contents:	Principles of Evidence-Based Imaging for Adults and Children – Critically Assessing the Literature for Evidence-Based Imaging: Understanding Error and Bias – Information Systems in Emergency Department Diagnostic Imaging – The Consequences of Inappropriate Use of Emergency Imaging – Acute Traumatic Brain Injury in Adults: Evidence-Based Emergency Imaging – Pediatric Accidental Traumatic Brain Injury (TBI): Evidence-Based Emergency Imaging – Traumatic Extracranial Vascular Injury in Adults: Evidence-Based Emergency Imaging – Hyperacute Ischemic Stroke in Adults: Evidence-Based Emergency Imaging – Acute Headache Disorders in Adults and Children: Evidence-Based Emergency – Seizures in Adults and Children: Evidence-Based Emergency Imaging – Acute Spine Trauma in Adults and Children: Evidence-Based Emergency Imaging – Acute Back Pain in Adults and Children: Evidence-Based Emergency Imaging – Acute Sinusitis in Adults and Children: Evidence-Based Emergency Imaging – Acute Aortic Syndrome in Adults: Evidence-Based Emergency Imaging – Acute Pulmonary Embolism in Adults and Children: Evidence-Based Emergency Imaging, Evaluation, and Diagnosis – Blunt Injuries to the Thorax and Abdomen in Adults: Evidence-Based Emergency Imaging – Appendicitis in Adults and Children: Evidence-Based Emergency Imaging – Evidence-Based Emergency Imaging for Non-Appendiceal Acute Abdominal Pain in Adults: Pancreatitis and Diverticuliti – Small and Large Bowel Obstruction in Adults: Evidence-Based Emergency Imaging – Acute Pelvic Pain in Pre-Menopausal Infants and Children: Evidence-Based Emergency Imaging – The Acute Scrotum in Adults and Children: Evidence-Based Emergency Imaging – Upper Extremity Injuries in Adults and Children: Evidence-Based Emergency Imaging – Pelvic Fractures in Adults: Evidence-Based Emergency Imaging – Lower Extremity Injuries in Adults and Children: Evidence-Based Emergency Imaging – Evidence-Based Emergency Imaging for Acute – Evidence-Based Emergency Neuroimaging in Children and Adults with Sickle Cell Disease and Symptoms of Stroke – Non-Accidental Injury in Infants and Children: Evidence-Based Emergency Imaging – Hypertrophic Pyloric Stenosis (IHPS) in Infants and Children: Evidence-Based Emergency Imaging – Intussusception in Infants and Children: Diagnostic Evidence-Based Emergency Imaging and Treatment – Clinically Suspected Malrotation in Infants and Children: Evidence-Based Emergency Imaging – Non-Traumatic Hip Pain in Infants and Children: Evidence-Based Emergency Imaging – Foreign Body Aspiration in Children: Evidence-Based Emergency Imaging – Acute Urinary Tract Infection in Infants and Children: Evidence-Based Emergency Imaging.
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