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Previous studies have suggested that cardiac resynchronization achieved through atrial-synchronized biventricular pacing produces clinical benefits in patients with heart failure who have an ...

Cardiac Resynchronization in Chronic Heart Failure

The current pre-eminent focus in osteoarthritis research and clinical practice is on persons with established radiographic disease. This is the very end-stage of disease genesis and modern therapies ...

Lower extremity osteoarthritis management needs a paradigm shift

Primary prevention of patellofemoral pain might be the solution to decreasing its burden ... pain/injury, prevention and clinical trial (online supplemental appendix 1). RCTs evaluating the efficacy ...

Is patellofemoral pain preventable? A systematic review and meta-analysis of randomised controlled trials

and how Agilent provides key technologies and solutions to advance their therapeutic opportunities through the different stages of drug development: Seahorse XF technology measures the two major ...

Drug Discovery and Development

These models are used in a wide range of applications from investigating children’s bone mechanics, to predicting the risk of fracture in elderly, and obstetrics and gynaecology.

Dr Xinshan Li

Recent highlights include the structure determination and characterisation of the solution dynamics of the human intracellular cysteine proteinase inhibitor stefin A. Proteins of this family inhibit ...

Professor Jon Waltho

and how Agilent provides key technologies and solutions to advance their therapeutic opportunities through the different stages of drug development: Seahorse XF technology measures the two major ...

Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient’s health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient’s health problem. According to Improving Diagnosis in Health Care, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. Improving Diagnosis in Health Care a continuation of the landmark Institute of Medicine reports To Err Is Human (2000) and Crossing the Quality Chasm (2001) finds that diagnosis-and, in particular, the occurrence of diagnostic errors&K has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of Improving Diagnosis in Health Care contribute to the growing momentum for change in this crucial area of health care quality and safety.

This best-selling resource provides a general overview and basic information for all adult intensive care units. The material is presented in a brief and quick-access format which allows for topic and exam review. It provides enough detailed and specific information to address most all questions and problems that arise in the ICU. Emphasis on fundamental principles in the text should prove useful for patient care outside the ICU as well. New chapters in this edition include hyperthermia and hypothermia syndromes; infection control in the ICU; and severe airflow obstruction. Sections have been reorganized and consolidated when appropriate to reinforce concepts.

This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General’s reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Abortion is a legal medical procedure that has been provided to millions of American women. Since the Institute of Medicine first reviewed the health implications of national legalized abortion in 1975, there has been a plethora of related scientific research, including well-designed randomized clinical trials, systematic reviews, and epidemiological studies examining abortion care. This research has focused on examining the relative safety of abortion methods and the appropriateness of methods for different clinical circumstances. With this growing body of research, earlier abortion methods have been refined, discontinued, and new approaches have been developed. The Safety and Quality of Abortion Care in the United States offers a comprehensive review of the current state of the science related to the provision of safe, high-quality abortion services in the United States. This report considers 8 research questions and presents conclusions, including gaps in research.

This open access book describes and illustrates the surgical techniques, implants, and technologies used for the purpose of personalized implantation of hip and knee components. This new and flourishing treatment philosophy offers important benefits over conventional systematic techniques, including component positioning appropriate to individual anatomy, improved surgical reproducibility and prosthetic performance, and a reduction in complications. The techniques described in the book aim to reproduce patients’ native anatomy and physiological joint laxity, thereby improving the prosthetic hip/knee kinematics and functional outcomes in the quest of the forgotten joint. They include kinematically aligned total knee/total hip arthroplasty, partial knee replacement, and hip resurfacing. The relevance of available and emerging technological tools for these personalized approaches is also explained, with coverage of, for example, robotics, computer-assisted surgery, and augmented reality. Contributions from surgeons who are considered world leaders in diverse fields of this novel surgical philosophy make this open access book will invaluable to a wide readership, from trainees at all levels to consultants practicing lower limb surgery

This volume is the arranged monograph based on the Hip Biomechanics Symposium held on November 1992 in Fukui, Japan. It consists of six major sections: loading, gait analysis, total hip arthroplasty, osteotomies, motion analysis, and stem designs for stability. The most important aim of the volume is to overview the current research outcomes in the biomechanical approaches to adult hip diseases. Each of these sections brings together many of the leading researchers in this field. The information found here will be of benefit to orthopedic surgeons and researchers in the related areas.

The revised, updated Fourth Edition of this popular handbook provides practical, accessible information on all aspects of dialysis, with emphasis on day-to-day management of patients. Chapters provide complete coverage of hemodialysis, peritoneal dialysis, special problems in dialysis patients, and problems pertaining to various organ systems. This edition reflects the latest guidelines of the National Kidney Foundation’s Kidney Disease Outcomes Quality Initiative (KDOQI) on hemodialysis and peritoneal dialysis adequacy and on nutrition. New chapters cover chronic kidney disease management in predialysis patients, frequent daily or nocturnal hemodialysis, and hemodiafiltration. Chapters on venous and arteriovenous access have been completely revised. Each chapter provides references to relevant Web sites.

The new edition of the gold-standard clinical reference on addressing common, complex, and multifactorial clinical scenarios Orthodontic Treatment of Impacted Teeth integrates the latest developments and scientific evidence to provide authoritative coverage of orthodontic diagnosis and treatment, radiographic methods, surgical access, treatment strategies, and more. This new edition incorporates recent advances in research and presents up-to-date treatment recommendations for clinical practice. New and expanded chapters address topics such as abnormal root growth associated with tooth Impaction, improvements in the diagnosis of pathologic entities using cone-beam computed tomography (CBCT), root and crown resorption, and treating abnormal incisor root development caused by past trauma. Throughout the text, readers gain valuable insight into the management of impacted teeth in real-world practice, illustrated by updated cases from the author’s own clinic. Provides protocols for common cases as well as complex and rare presentations Contains individual chapters on the specific aspects of the diagnosis and treatment of impaction in each of the different types of teeth Covers prevalence, etiology, diagnosis, attitudes to treatment, treatment timing, treatment methods, and prognosis Features more than 1,000 high-quality color images and illustrations Orthodontic Treatment of Impacted Teeth, Fourth Edition, remains essential reading for all specialist orthodontists, academic researchers and instructors, oral and maxillofacial surgeons, and advanced students in orthodontics.

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