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Previous studies have
suggested that cardiac
resynchronization achieved
through atrial-synchronized
biventricular pacing
produces clinical benefits

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in patients with heart
failure who have an ...

Cardiac Resynchronization in
Chronic Heart Failure
Chronic obstructive
pulmonary disease (COPD) is
a major public health

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problem associated with long-term exposure to toxic gases and particles. We examined the evolution of the pathological effects ...

The Nature of Small-Airway
Obstruction in Chronic

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Obstructive Pulmonary
Disease

Understanding the diffusion of nanoparticles in biological environments is critical in their design and eventual clinical application. For example,

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nanoparticles are being
engineered to monitor and
...

Fast nanoparticle rotational
and translational diffusion
in synovial fluid and
hyaluronic acid solutions

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In this essay, we provide a brief review of the state of knowledge of the mechanics of breathing at the time the Division of Lung Disease (DLD) of the National Heart, Lung, and Blood Institute (NHLBI) ...

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American Journal of
Respiratory and Critical
Care Medicine
Dyslipidemia and insulin
resistance are evident in
PAH animal models (18) and
human disease (15, 19) and

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are associated with worse clinical outcome (15, 19). Mitochondrial fatty acid (FA) oxidation ...

PPAR γ agonist pioglitazone reverses pulmonary hypertension and prevents

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right heart failure via
fatty acid oxidation

The current pre-eminent
focus in osteoarthritis
research and clinical
practice is on persons with
established radiographic
disease. This is the very

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end-stage of disease genesis
and modern therapies ...

Lower extremity
osteoarthritis management
needs a paradigm shift
However, there are no
clinical guidelines that

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link the specific diagnosis (as above) with a focused rehabilitation plan.

Objective We present an overview of the general principles of, and rationale

...

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Hamstring rehabilitation in elite track and field athletes: applying the British Athletics Muscle Injury Classification in clinical practice
Strength Training Helps You Develop Better Body

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Mechanics Strength training also ... One review, published in Aging Clinical and Experimental Research in November 2017, concluded that doing ...

8 Ways Strength Training

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Boosts Your Health and
Fitness

1 Institute of Clinical
Medicine, National Yang-Ming
University ... In this
study, we examined the
effects of controlled
substrate stiffness,

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mimicking human tissue
mechanics, on hPSC lineage
...

Control of matrix stiffness
promotes endodermal lineage
specification by regulating
SMAD2/3 via lncRNA LINC00458

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Max Verstappen is driving in the same dominant way Lewis Hamilton did for so long. And he is even starting to sound like him. He extended his advantage in the Formula One championship to 32 points ...

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Dominant Verstappen driving,
and sounding, like a
champion

These models are used in a
wide range of applications
from investigating
children's bone mechanics,

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to predicting the risk of fracture in elderly, and obstetrics and gynaecology.

Dr Xinshan Li

Claudia's research focuses on the biomechanics of human movement and on the

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definition of experimental
and modelling techniques for
the clinical assessment of
an individual's locomotor
and postural ...

Professor Claudia Mazzà
His research goals are to

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find better ways to restore musculoskeletal function, maintain health, and improve performance in healthy and clinical populations. Specifically, his research is focused on ...

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Steven J. Elmer

Background: This document provides evidence-based clinical practice guidelines on the use of mechanical ventilation in adult patients with acute respiratory distress

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syndrome (ARDS). Methods: A
...

The gastrointestinal tract is a series of organs each with distinct mechanical functions. Each organ within

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the system brings food contents in the gut lumen to the site of absorption through separate mechanical functions. These mechanical functions are generated by a fine-tuned interaction between neuronal networks

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and active muscle layers. The passive components of the gastrointestinal wall such as the collagen-rich submucosa also play an important role in these mechanical actions. Clinical Mechanics in The Gut

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provides a thorough understanding of the anatomy and biomechanics of the physiological function and pathophysiology of the gastrointestinal tract. The book first gives an introduction to readers

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about the physical geometry of the gastrointestinal tract followed by a detailed explanation of biomechanical theory and its application to approximating and modeling gut mechanics. This is expanded further by

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detailed explanations of gut muscle and motor nerve functions in proceeding chapters. A biomechanical evaluation of disorders of regulatory mechanisms such as achalasia and Hirschsprung disease and

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disorders of effector mechanisms such as reflux disease, systemic sclerosis of the gastrointestinal tract and colonic diverticular disease are also included. Readers will, therefore, gain an

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understanding about clinical problems in gastroenterology from a bioengineering and modeling perspective.

Clinical Mechanics in The Gut is a useful reference for gastroenterology researchers, biomedical

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engineers and systems
biologists seeking to
understand the physiology of
the gut and applying this
knowledge to surgical
procedures, computer-based
modeling systems and
robotics.

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Helps readers master the basic theory, principles, and techniques of splinting needed for clinical practice. Using a combination textbook/workbook format, it

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integrates theory and technical knowledge with hands-on learning features that equip readers with essential clinical knowledge, critical thinking skills, and problem-solving skills associated with

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splinting. The content has been updated to include new research and techniques, current trends, and new information sources. A companion CD contains video clips demonstrating how to fabricate specific splints.

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This book serves as a practical text on the subject of hand surgery that covers all of the practical mechanical principles in a nonthreatening way. The book covers all of the basic

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elements of the forces that result in movement of the hand, and all the forces that hinder its movement. The authors quantify those elements in manner in which surgeons and therapists can judge their own measure of

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success or failure as they try to repair and restore movement to damaged hands.

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The fifth edition of Orthopaedic Basic Science: Foundations of Clinical Practice is your concise and clinically relevant resource for the diagnosis and treatment of musculoskeletal diseases and conditions.

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This completely rewritten edition explains the functions and limitations of the science behind the decisions, treatments, and procedures you perform in your practice every day. Use it to build and reinforce

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your foundation of knowledge
for applying advances in
scientific discovery to your
decision-making in the
clinic and the OR.

"This book assists students
and health care

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professionals in becoming
experts in surface palpation
techniques" - -

A host of new technologies,
techniques, and medical
regimens have been
introduced over the past 30

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years for the diagnosis, management, and prevention of urinary calculi. These range from novel imaging procedures and medical expulsive therapy to interventional treatment options. The contemporary

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urologist should be familiar with and adept at implementing these new concepts and techniques. Clinical Management of Urolithiasis will serve as a practical guide to every clinically relevant aspect

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of urolithiasis and its treatment, both surgical and medical. In addition to providing up-to-date evidence-based recommendations regarding stone management, the book reflects the real-life

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experience of well-known international experts. Each chapter includes tables and algorithms that allow the reader easily to check the requirements for specific procedures and to translate them into clinical practice.

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Access the information you need to confidently diagnose and treat musculoskeletal disorders at a glance! With a "5-books-in-1" approach, this essential clinical reference provides up-to-

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date diagnostic and therapeutic information on over 200 orthopedic conditions in a bulleted, quick-reference format ideal for both students and practitioners. Content is written entirely by

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orthopedic physical therapists and is logically organized to promote accurate, efficient differential diagnosis and intervention. '5-books-in-1' format combines essential content on foundational

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knowledge, clinical reasoning, orthopedic pathologies, common clinical questions, and pharmacology all in one place for fast, efficient reference. UNIQUE: Expert insight and decision-making strategies for the

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rehabilitation of
musculoskeletal pathologies
help you apply sound
clinical reasoning to
determine the needs of
patients with
musculoskeletal disorders.
UNIQUE: Succinct, bulleted

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text organizes information consistently for easy access. Clinician-oriented profiles cover 200 orthopedic pathologies with considerations specific to your needs in orthopedic rehabilitation practice. 51

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drug class monographs detail indications, dosages, contraindications and physical therapy implications to help you better understand drug interactions and more effectively manage patients.

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Readings in Clinical Psychology illustrates the development of reliable and valid measures of behavior, and the skillful, expert use of modern statistical techniques for the analysis

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of data. These readings stress the importance of experimental and academic psychology as the basis of clinical psychology, and the need for behavioral research. This book is organized into five parts

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encompassing 44 chapters,
and begins with an
introduction to the history
and role of clinical
psychology. The following
parts are devoted to the
measurement of individual
differences, treatment

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techniques, psychometric and statistical considerations and, finally, diagnostic and research problems. The last parts include articles on children, neuroses, psychoses, brain damage, old age, animal behavior and

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drugs. This book will prove useful to psychologists, social scientists, medical practitioners, and post-graduate applied psychology students.

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