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CHRONIC ISCHAEMIC HEART DISEASE

Angina: contemporary diagnosis and management

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INTRODUCTION

Ischaemic heart disease (IHD) remains the leading global cause of death and lost life years in adults, notably in younger (<55 years) women.¹ Angina pectoris (derived from the Latin verb 'angere' to strangle) is chest discomfort of cardiac origin. It is a common clinical manifestation of IHD with an estimated prevalence of 3%–4% in UK adults. There are over 250 000 invasive coronary angiograms performed each year with over 20 000 new cases of angina. The healthcare resource utilisation is appreciable with over 110 000 inpatient episodes each year leading to substantial associated morbidity.² In 1809, Allen Burns (Lecturer in Anatomy, University of Glasgow) developed the thesis that myocardial ischaemia (supply:demand mismatch) could explain angina, this being first identified by William Heberden in 1768. Subsequent to Heberden's report, coronary artery disease (CAD) was implicated in pathology and clinical case studies undertaken by John Hunter, John Forberrigill, Edward Jenner and Caleb Hillier Parry.³ Typically, angina involves a relative deficiency of myocardial oxygen supply (ie, ischaemia) and typically occurs after activity or physiological stress (box 1).

Six decades have passed since the first reported invasive coronary angiogram; however, many physicians still consider detecting obstructive epicardial CAD on coronary angiography a '*sine qua non*' for the diagnosis of angina.⁴ The detection of obstructive CAD allows evidence-based medical treatment and consideration of myocardial revascularisation. However, underlying pathophysiology is more nuanced with contributions from anatomical atherosclerotic and/or functional alterations of epicardial vessels and/or microcirculation (figure 1).⁵ ESC guidelines⁶ have revised nomenclature ('Chronic Coronary Syndromes') in part reflecting the importance of patients with signs and symptoms of ischaemia without obstructive coronary artery disease—INOCA.^{7,8} Around half of all patients with angina undergoing elective coronary angiography have no obstructive epicardial CAD.⁹ This large, heterogeneous chronic coronary syndrome is comprised of distinct vasomotor disorders including microvascular angina (MVA) and/or vasospastic angina (VSA)—the two most common underlying disorders of coronary vascular function in the INOCA population. Crucially, we stress that there are often multiple mechanisms of myocardial ischaemia occurring in various coronary compartments via different mechanisms. These frequently coexist in combination; however, an appreciation of this fact can help stratify treatment and help us understand patients with poor treatment response (eg, angina after revascularisation).

Learning objectives

- ▶ Around one half of angina patients have no obstructive coronary disease; many of these patients have microvascular and/or vasospastic angina.
- ▶ Tests of coronary artery function empower clinicians to make a correct diagnosis (rule-in/ rule-out), complementing coronary angiography.
- ▶ Physician and patient education, lifestyle, medications and revascularisation are key aspects of management.

We begin by classifying angina according to pathophysiology. We then consider the current guidelines and their strengths and limitations for assessing patients with recent onset of stable chest pain. We review non-invasive and invasive functional tests of the coronary circulation with linked management strategies. Finally, we point to future directions providing hope for improved patient outcomes and development of targeted disease-modifying therapy. The aim of this educational review is to provide a contemporary approach to diagnosis and management of angina taking into consideration epicardial coronary disease, microcirculatory dysfunction and coronary vasospasm.

CONTEMPORARY ANGINA CLASSIFICATION BY PATHOPHYSIOLOGY

The clinical history is of paramount importance to initially establish whether the nature of the presenting symptoms is consistent with angina (box 1). Indeed, recent data supports specialist physicians under-recognise angina in up to half of their patients.¹⁰ Furthermore, contemporary clinical trials of revascularisation in stable IHD including the ISCHEMIA trial highlight the importance of good clinical history and listening to our patients to determine the nature and frequency of symptoms which helps to plan management. We propose a classification of angina that aligns with underlying aetiology and related management (table 1).

Angina with obstructive coronary artery disease

2018 ESC guidelines on myocardial revascularisation define obstructive CAD as coronary stenosis with documented ischaemia, a haemodynamically relevant lesion (ie, fractional flow reserve (FFR) ≤ 0.80 or non-hyperaemic pressure ratio (NHPR) (eg, iwFR ≤ 0.89) or $>50\%$ stenosis in a major coronary vessel (table 1). There is renewed interest in NHPRs (iwFR, resting full-cycle ratio (RFR) and diastolic pressure ratio (dPR)) as data have emerged



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**Beth Nachtsheim Bolick, Karin Reuter-
Rice, Maureen A. Madden, Paul N.
Severin**

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Contemporary Diagnosis and Management of the Patient with Epilepsy Ilo E. Leppik, 1998 What epilepsy is and how to care for the patient with this neurologic disorder *Syphilis; Modern Diagnosis and Management* United States. Public Health Service, 1960 **Syphilis, Modern Diagnosis and Management** United States. Public Health Service U.S. Health, Education & Welfare, 1961 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1992

Handbook of Obesity Treatment Thomas A. Wadden, Albert J. Stunkard, 2004-07-01 The contemporary successor to the editors earlier Obesity Theory and Therapy this comprehensive handbook guides mental health medical and allied health professionals through the process of planning and delivering individualized treatment services for those seeking help for obesity Concise extensively referenced chapters present foundational knowledge and review the full range of widely used interventions including self help behavioral and cognitive behavioral approaches pharmacotherapy and surgery Provided are state of the art guidelines for assessing obese individuals for health risks and for mood and eating disorders treatment algorithms for tailoring interventions to the severity of the client s problem details on adjunctive interventions for improving body image and self esteem recommendations for working with child clients and much more *Disorders of the Respiratory Tract* Matthew L. Mintz, 2007-11-10 A concise review of the epidemiology pathogenesis and management of common respiratory conditions seen in a primary care setting Using an illuminating case based approach Dr Mintz assesses the key clinical questions that a primary care physician would ask and applies the most up to date research and guidelines to offer the practitioner evidence based solutions The author covers the range of knowledge needed to provide excellent care for patients with respiratory disease from the basics of pulmonary function testing to understanding and caring for common respiratory illnesses including chronic obstructive pulmonary disease asthma allergic rhinitis and pneumonia For each disorder Dr Mintz explains the key points regarding the epidemiology of the disease its pathophysiology the differential diagnosis and diagnosis and its recommended treatment A special PDA version of Disorders of the Respiratory Tract Common Challenges in Primary Care is also available Handbook of Venous Disorders : Guidelines of the American Venous Forum Third Edition Peter Gloviczki, 2008-12-26 Now in its third edition the Handbook of Venous Disorders continues to provide comprehensive and up to date information on acute and chronic venous and lymphatic diseases and malformations and to discuss the latest knowledge on epidemiology pathophysiology clinical evaluation diagnostic imaging medical endovascular and surgical management This revised updated and expanded edition takes account of all the recent developments in these areas New chapters on for example foam sclerotherapy radiofrequency treatment laser treatment and open surgical reconstructions are included as well as useful diagnostic and treatment algorithms for the various conditions that are dealt with in the book Clinical guidelines are provided in each chapter together with evidence scores to help the reader assess the recommendations The Handbook of Venous Disorders is written and edited by leaders and founding members of the

American Venous Forum a society dedicated to research education and the clinical practice of venous and lymphatic diseases The Handbook also includes several international authors all of whom are experts in venous disease most being regular or honorary members of the American Venous Forum **The 5-Minute Clinical Consult 2020** Sangeeta Sharma,2019-12-15 Over 250 diagnostic and treatment algorithms over 900 topics providing clinical guidance current evidence based designations highlighted in each topic at a glance format with concise and bulleted text ICD 10 codes dsm 5criteria quick information to help in diagnosis treatment selection and medication dosing easy to use reference at point of care providing quick answer to a direct clinical question *Endodontics E-Book* Mahmoud Torabinejad,Ashraf F. Fouad,Shahrokh Shabahang,2020-06-25 Selected for Doody s Core Titles 2024 in Dentistry From renowned endodontics experts Mahmoud Torabinejad Ashraf Fouad and Shahrokh Shabahang comes Endodontics Principles and Practice 6th Edition This focused and extensively revised new edition contains all the clinically relevant information needed to incorporate endodontics into general dentistry practice Illustrated step by step guidelines and vivid online videos address the ins and outs of diagnosis treatment planning managing pulpal and periapical diseases and performing basic root canal treatments Updated evidence based coverage also includes topics such as the etiology of disease local anesthesia emergency treatment obturation and temporization It s the perfect endodontics guide for both entry level dental students and general dentists alike Well known international contributors share guidelines expertise and their clinical experience with contemporary technologies and procedures Authoritative visually detailed coverage provides a practical understanding of basic endodontic principles and procedures including pulpal and periapical diseases and their management Clinically relevant organization reflects the order in which procedures are performed in clinical settings enhancing your understanding of the etiology and treatment of teeth with pulpal and periapical diseases Over 1 000 full color illustrations ensure a clear accurate understanding of procedures and include radiographs and clinical photographs Learning objectives help you meet the theoretical and procedural expectations for each chapter More than 67 video clips located on the companion website demonstrate essential procedures NEW Sharper focus on the most clinically relevant content eliminates much of the basic science that you have already studied and focuses on the information and skills that are most needed during clinical practice NEW Fully updated evidence based content integrates the best clinical evidence with the practitioner s clinical expertise and the patient s treatment needs and preferences NEW Expert Consult access is included via a unique pin code to make the text relevant for both practitioners and students alike NEW Mid chapter questions check your understanding of the concept before moving onto the next topic

Official Gazette of the United States Patent and Trademark Office ,2001 Current Catalog National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 **Cumulated Index Medicus** ,1997 Value of a multidisciplinary approach for modern diagnosis of infectious diseases Stefano Marletta,Stefano Stracquadanio,Andrea Marino,2024-12-02 An early and accurate diagnosis plays a pivotal role in the successful management and treatment of

infectious diseases However the traditional investigative methods used for detecting infections are often time consuming costly and can lack sensitivity and specificity Thus there is a need for the development of new and more efficient diagnostic tools and techniques This Research Topic aims to bring together research articles reviews and case studies that focus on the recent advancements in the diagnosis of infections from a multidisciplinary perspective microbiological clinical molecular and histopathological approaches to diagnosis will be collected highlighting the importance of the collaboration among the specialists in the management of infectious diseases

Complications in Pediatric Surgery Michael G. Caty, 2008-11-24

Addressing the need of pediatricians and pediatric surgeons for a one stop comprehensive text on pediatric surgery Complications in Pediatric Surgery covers each case a physician may encounter upon treating the pediatric surgical patient from fetus to adolescent Complications in Pediatric Surgery provides separate and concise chapters each of

Advancing the Investigation and Treatment of Sleep Disorders Using AI Kumar, M. Rajesh, Kumar, Ranjeet, Vaithiyanathan, D., 2021-06-25 There are more than 80 different sleep disorders including insomnia sleep apnea restless leg syndrome hypersomnia circadian rhythm disorders and parasomnia Good sleep is necessary for optimal health and can affect hormone levels and weight The use of artificial intelligence AI and biomedical signals and images can help in healthcare diagnostics that are related to these and other sleep disorders Advancing the Investigation and Treatment of Sleep Disorders Using AI presents an overview of sleep disorders based on machine intelligence methods in order to learn and explore the latest advancements developments methods systems futuristic approaches and algorithms towards sleep disorders and to address their challenges This book also discusses recent and future advancements in various feature extraction techniques and machine learning methods Covering topics such as biomedical signal processing augmented reality for clinical investigation and sleep disorder detection this book is essential for sleep medicine practitioners clinical psychologists psychiatrists medical technologists doctors IT specialists biomedical engineers researchers graduate students and academicians

Principles and Practice of Geriatric Medicine M.S. John Pathy, Alan J. Sinclair, John E. Morley, 2006-02-03 The fourth edition of the highly acclaimed Principles and Practice of Geriatric Medicine provides an account of the fundamental changes associated with ageing which are essential to our understanding and management of the elderly sick population The title has been extensively revised and updates to reflect the enormous changes in treatment options and medical conditions emerged since publication of the third edition Written by worldwide experts of international repute this is the most up to date and comprehensive single reference source currently available Principles Practice of Geriatric Medicine Fourth Edition incorporates More than 30 new chapters including Preventive geriatrics Anorexia of Aging Managements of Weight Loss Dehydration Vitamins and Minerals in the Elderly Cancer and Aging Mild Cognitive Impairment Treatment of Behavioral Disorders The Older Patient with Down s Syndrome Drug Abuse in Older People Breast Cancer Women s health A truly global perspective including new chapter on Care of the elderly in Israel old age in a young land Geriatric Medicine in China

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Recent Innovations in Surgical Procedures of Pancreatic Neoplasms Juan Bellido Luque, Angel Nogales Muñoz, 2023-04-29 Our understanding of pancreatic tumors is changing thanks to recent advances in the field New diagnostic techniques and imaging tests have improved the early diagnosis of these lesions and as a result the growing number of R0 surgical resections has meant a better prognosis for patients Further minimally invasive laparoscopic approaches have increased postoperative comfort Presenting the latest research in the field this book will appeal to clinicians in a wide range of medical specialities including gastroenterologists general physicians and abdominal and biliopancreatic surgeons

Evidence-Based Practice of Anesthesiology E-Book Lee A. Fleisher, 2013-02-13 Make informed clinical decisions with reliable up to date guidance from Evidence Based Practice of Anesthesia 3rd Edition Leading authority Lee A Fleisher MD expertly explores the full range of important issues in perioperative management discussing the available options examining the relevant research and presenting practical recommendations Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Make sound evidence based decisions on every aspect of patient care preoperative assessment monitoring and administration of anesthesia during surgery postoperative intensive care management and postoperative pain management Master the current best practices you need to know for day to day practice and oral board review Confidently navigate the latest issues thanks to new chapters on optimal airway management in GI endoscopy the role of Ketamine for perioperative management fast track surgery and hypothermia after intraoperative cardiac arrest plus many other vital updates Efficiently

translate evidence into practice with numerous quick reference tables and short well organized chapters that promote fast and effective decision making Get practical decision making tools you can use in both routine care and complicated or special situations **Pediatric Acute Care** Beth Nachtsheim Bolick,Karin Reuter-Rice,Maureen A. Madden,Paul N.

Severin,2020-06-20 Selected for Doody's Core Titles 2024 in Critical Care Stay up to date on the latest evidence and clinical practice in pediatric acute care with the definitive textbook in the field Now in its second edition Pediatric Acute Care A Guide for Interprofessional Practice takes an evidence based interprofessional approach to pediatric acute care as it exemplifies the depth and diversity that's needed for the dynamic healthcare environments in which acutely ill children receive care Coverage includes how to work with the pediatric patient and family major acute care disorders and their management emergency preparedness common acute care procedures and much more With contributions from more than 200 practicing clinicians and academic experts it represents a wide variety of disciplines including medicine nursing pharmacy child life nutrition law integrative medicine education public health and psychology among others The second edition also features the addition of new physician and nurse practitioner co editors as well as extensive content updates including updated evidence based content throughout the text the integration of the 2016 IPEC Core Competencies for Interprofessional Collaborative Practice a new full color design and new vivid illustrations throughout UNIQUE Interprofessional collaborative approach includes contributions from more than 200 practicing clinicians and academic experts from the U S and Canada including nursing medicine pharmacy child life nutrition law integrative medicine education public health and psychology Consistent organization within disorder chapters begins with a section on Physiology and continues with sections on Pathophysiology Epidemiology and Etiology Presentation Differential Diagnosis Diagnostic Studies and a Plan of Care that include Therapeutic Management Consultation Patient and Family Education and Disposition and Discharge Planning Comprehensive content spanning five units divides coverage into introductory information the approach to the pediatric patient and family major acute care disorders and their management emergency preparedness and common acute care procedures NEW Updated evidence based content has been added throughout to ensure that you're up to date on all topics needed to provide care for pediatric patients in acute inpatient emergency transport and critical care settings NEW Full color design and illustrations enhance learning and make content easier to navigate and digest NEW Integration of the 2016 IPEC Core Competencies ensure that you're learning the professional skills and protocols required for effective contemporary interprofessional collaborative practice UPDATED Streamlined procedures unit focuses more sharply on need to know content

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