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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 Fothergill, 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 ‘*visus novus*’ 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 $> 90\%$ 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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Modern Diagnosis and Treatment of Diseases of Children Herman Bernard Sheffield, 1912 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 Geriatric medicine education in Europe Geriatrics from the European Union Perspective India Day Hospitals Perspectives from Latin America The title will be indispensable for all those involved in the treatment of older patients Gerontologists to keep up to date with the latest developments in the field General practitioners and specialists in health policy and community care who increasingly have to deal with a significant number of older people Academic researchers in geriatric medicine who are in need for an all encompassing reference work Medical registrars UK residents US in order to pass their exams Teachers of Geriatric Medicine Hospital libraries with increasing budgets to spend on much needed resource in this growing field Professionals within the pharmaceutical industry in order to monitor treatment options and new prescription developments *McCance & Huether's Pathophysiology - E-Book* Julia Rogers, 2022-08-03 Learn the what how and why of pathophysiology With easy to read in depth descriptions of disease disease etiology and disease processes McCance and Huether s Pathophysiology The Biologic Basis for Disease in Adults and Children 9th Edition helps you understand the most important and most complex pathophysiology concepts This updated text includes more than 1 300 full color illustrations and photographs to make it easier to identify normal anatomy and physiology as well as alterations of function It s the most comprehensive and authoritative pathophysiology text available Unparalleled coverage of pathophysiology content makes this the most comprehensive and authoritative pathophysiology text on the market Consistent presentation of diseases

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CURRENT Diagnosis & Treatment Pediatrics, 27th Edition Maya Bunik, Myron J. Levin, Mark J. Abzug, Teri L. Schreiner, 2024-07-06 The most up to date time saving guide available for effectively diagnosing and treating child patients from birth to adolescence The go to resource for medical students focusing on pediatrics CURRENT Diagnosis Treatment Pediatrics delivers everything you need for your pediatrics and family medicine clerkships and to launch a successful residency Packed with hundreds of photos and illustrations including 100 brand new full color images detailing problems in the eyes skin oral cavity and more it includes an invaluable guide to normal laboratory values features detailed descriptions of all relevant diseases and covers diagnostic and therapeutic procedures Providing an abundance of evidence based information in a single volume this authoritative guide delivers the latest information on important pediatric health concerns including Childhood nutrition and eating disorders Infectious diseases Psychiatric disorders Skin diseases Oral medicine and dentistry Immunization Emergencies and injuries CURRENT Diagnosis Treatment Pediatrics presents information in the time saving style that makes LANGE CURRENT books so popular Problem Essentials of Diagnosis Clinical Findings Differential Diagnosis Treatment and Prognosis Manual of Gynecardiology Angela H.E.M. Maas, C. Noel Bairey Merz, 2017-06-12 This book provides a much needed internationally oriented text focusing on specific aspects of heart disease in women Despite the large amount of information available there is still considerable confusion regarding female patients As such the book highlights the health events that occur during aging in women and that may influence the future CVD risk For instance pregnancy related disorders are important predictors for CVD risk in women and inflammatory diseases like rheumatic thyroid disorders etc which also interfere with CVD risk are also more common in women Adopting a multidisciplinary approach including gynecology and endocrinology it offers separate chapters on female specific manifestations of ischemic heart disease such as Tako Tsubo CMP and spontaneous coronary artery dissections The book also discusses the effects and side effects of important medications The chapters are clearly formatted making it easy for readers to find subjects of interest **Contemporary Diagnosis And Management of Valvular Heart Disease** Jeffrey S. Borer, 2003-01-01 **IAP Specialty Series on Pediatric Cardiology** R Krishna Kumar, Shakuntala S Prabhu, Shreepal Jain, Sumitra Venkatesh, M

Zulfikar Ahamed,2021-07-31 PART I Pediatric Cardiology Foundation Sect 1 Introduction to the Specialty of Pediatric Cardiology Sect 2 Fundamentals of Pediatric Cardiology Sect 3 Diagnostic Tools Sect 4 Therapeutic Tools PART II Pediatric Cardiovascular Disease Sect 5 Medical Issues Sect 6 Congenital Heart Defects Sect 7 Acquired Heart Disease Sect 8 Others PART III Miscellaneous Sect 9 Common problems in Office Practice Sect 10 Cardiovascular Involvement in other System Disorders *Contemporary Medical Men and Their Professional Work* John Leyland,1888 *CURRENT Diagnosis & Treatment Pediatrics, Twenty-Sixth Edition* Maya Bunik,William W. Hay,Myron J. Levin,Mark J. Abzug,2022-05-06 A Doody's Core Title for 2024 substance use psychiatric disorders child abuse oral medicine and dentistry immunization and emergencies and injuries Complete with an invaluable guide to normal laboratory values it provides detailed descriptions of diseases as well as diagnostic and therapeutic procedures and present all information in the time saving style that makes LANGE CURRENT books so popular Problem Essentials of Diagnosis Clinical Findings Differential Diagnosis Treatment and Prognosis NEW to this edition [Current Diagnosis & Treatment Cardiology, Sixth Edition](#) Michael H. Crawford,2023-04-22 A concise authoritative compilation of the essential information needed to diagnose and manage cardiovascular disease Current Diagnosis and Treatment Cardiology Sixth Edition covers the latest developments in the field with detailed consistently structured chapters with sharp clinical images that aid comprehension Presented in the popular LANGE format each chapter discusses diagnostic techniques prevention strategies treatment and prognosis The detailed uniform structure and 200 sharp clinical images including ECGs drawings graphs and charts aid reader comprehension This sixth edition has been thoroughly updated to reflect revised guidelines and treatments NEW content Cardiac Conduction Disorders and Pacing and Tricuspid and Pulmonic Valve Disease NEW chapters Cardio Oncology and Dilated Cardiomyopathy Major revision of Myocarditis chapter covers Covid 19 Essential for board review Cardiovascular disease is largest part of ABIM internal medicine certification exam NEW devices Cardiac Conduction Disorders and Pacing and Tricuspid and Pulmonic Valve Disease Medication news Endocrinology and the Heart Heart Failure with Reduced Ejection Fraction Percutaneous repair and techniques Aortic Stenosis Mitral Regurgitation and Thoracic Aortic Aneurysms and Dissections and more **Canadian Family Practice Guidelines** Jill C. Cash,Debbie Fraser,Lynn Corcoran,Margaret Edwards,2025-12-15 The only Canadian guideline resource created by and for NPs organized for speed trusted for clinical excellence Built for Canadian NP education and real world use this guide offers reliable national standards for over 250 common disorders and scenarios Culturally responsive gender neutral and evidence aligned the book supports safe prescribing accurate differential diagnosis and clear teaching tools all tailored for Canada's unique regulatory landscape What's New More content on substance use disorders including updated guidance on screening intervention and treatment Expanded sexual and reproductive health content featuring inclusive gender affirming care protocols All guidelines thoroughly updated to reflect current Canadian best practices and Health Canada standards New public health topics added including elder abuse and LGBTQ2S health concerns

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