



Long-term mortality, cardiovascular events, and bleeding in stable patients 1 year after myocardial infarction: a Danish nationwide study

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Abstract

Aims

Outcomes after myocardial infarction (MI) improved during recent decades alongside better risk factor management and implementation of guideline-recommended treatments. However, it is unknown whether this applies to stable patients who are event-free 1 year after MI.

Methods and results

Using nationwide Danish registries, we included all patients with first-time MI during 2000–17 who survived 1 year free from bleeding and cardiovascular events ($n = 82\,108$, median age 64 years, 68.2% male). Follow-up started 1 year after MI and continued through January 2022. Crude risks of mortality, cardiovascular events, and bleeding were estimated in consecutive 3-year periods. Standardized risks were calculated with respect to the distribution of age, sex, comorbidities, and treatments in the latter period. Guideline-recommended treatment use increased during the study period: e.g. statins (68.6–92.5%) and percutaneous coronary intervention (23.9–68.2%). The crude 5-year risks of outcomes decreased (all P -trend <0.001): Mortality, 18.6% (95% confidence interval [CI]: 17.9–19.2) to 12.5% (CI: 11.9–13.1); Recurrent MI, 7.5% (CI: 7.1–8.0) to 5.5% (CI: 5.1–6.0); Bleeding, 3.9% (CI: 3.6–4.3) to 2.7% (CI: 2.4–3.0). Crude 5-year risk of mortality in 2015–17 was as low as 2.6% for patients aged <60 years. Use of guideline-recommended treatments was associated with improved outcomes. After standardization for changes in treatments, 5-year risk of mortality in 2000–02 was 15.5% (CI: 14.9–16.2).

Conclusions

For patients who were event-free 1 year after MI, the long-term risks of mortality, cardiovascular events, and bleeding decreased significantly, along with an improved use of guideline-recommended treatments between 2000 and 2017. In the most recent period, 1 year after MI, the risk of additional events was lower than previously reported.

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Longterm Management Of Patients After Myocardial Infarction

Jiyuan Zhang



Longterm Management Of Patients After Myocardial Infarction:

Long-Term Management of Patients After Myocardial Infarction C. Tissa Kappagoda,P. V. Greenwood,1987-11-01

Long-Term Management of Patients After Myocardial Infarction C. Tissa Kappagoda,P.V. Greenwood,2012-12-06 The management of patients who present with a myocardial infarction has altered radically over the past two decades The expansion of knowledge relating to the epidemiology of the condition together with a greater understanding of the causes of the early mortality from it have resulted in major changes in the way these patients are treated during the acute phase of the illness The development of dedicated Coronary Care Units in hospitals and the recognition of the need for Mobile Coronary Care Units in the community have made a major impact upon the early mortality from myocardial infarction Over the past decade a great deal of attention has been paid to strategies designed to limit the size of a myocardial infarct As an extension of this approach the 1980s have seen the evolution of techniques for revascularization of ischemic tissue All these procedures while appearing to hold the promise of reducing the acute mortality from myocardial infarction create the need for a planned approach to the long term management of these patients While there are some modest indications that coronary atherosclerosis could be arrested or even reversed for all practical purposes it remains a chronic progressive disease

Coronary Care Manual Peter L. Thompson,2010-12-03 The Coronary Care Manual has been designed as a practical manual for the management of the acute coronary patient and aims to achieve a balance between the large and rapidly changing evidence base and practical application in the CCU ICU ED and ambulance The book has been written by a group of Australian and international experts for medical nursing and paramedic staff working in these areas This edition covers a broad range of coronary care medicine in enough detail to eliminate the need to refer to a larger reference book providing a portable companion for a night on call Completely redesigned with new artwork the manual is organized to suit academics and practitioners alike covers a broad range of coronary care medicine provides specific advice on the management of common clinical problems eliminates the need to refer to a larger reference book features a consistent style and focus with standardised artwork for figures is now also available as an eBook A code inside the Coronary Care Manual enables a full text download allowing you to browse and search electronically make notes and bookmarks in the electronic files and highlight material

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National Library of Medicine Current Catalog National Library of Medicine (U.S.),1991 *Cardiovascular Therapeutics E-Book* Elliott M. Antman,2012-09-17 Manage cardiovascular problems more effectively with the most comprehensive resource available A trusted companion to Braunwald s Heart Disease Cardiovascular Therapeutics 4th Edition addresses pharmacological interventional and surgical management approaches for each type of cardiovascular disease This practical and clinically focused cardiology reference offers a balanced complete approach to all of the usual and unusual areas of cardiovascular disease and specific therapies in one concise volume equipping you to make the best choices for every patient 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 Understand current approaches to treating and managing cardiovascular patients for long term health for complex problems and for unusual cardiac events Benefit from the substantial experience of Elliott M Antman MD Marc S Sabatine MD and a host of other respected authorities who provide practical evidence based rationales for all of today s clinical therapies Expand your knowledge beyond pharmacologic interventions with complete coverage of the most effective interventional and device therapies being used today Easily reference Braunwald s Heart Disease 9th Edition for further information on topics of interest Make the best use of the latest genetic and molecular therapies as well as advanced therapies for heart failure Cut right to the answers you need with an enhanced focus on clinically relevant information and a decreased emphasis on pathophysiology Stay current with ACC AHA ESC guidelines and the best ways to implement them in clinical practice Get an enhanced visual perspective with an all new full color design throughout **Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Geriatric Medicine** Christine K. Cassel,Rosanne Leipzig,Harvey Jay Cohen,Eric B. Larson,Diane E. Meier,2006-05-29 Since the publication of the third edition of Geriatric Medicine extraordinary advances have occurred in the science of aging and the potential for biomedical research to give us answers to many if not most of the age related disorders that threaten the quality of life in older years At the most basic level the

successful mapping of the human genome was declared complete in the fall of 2000 Understanding the map of the human genome is as important as understanding the map of genomes of important laboratory species ranging from the microscopic worms and fruit flies used in most classic genetic studies to rodents such as laboratory mice and eventually to primates on which much of the research on the aging human brain is done The genetic maps of all of these species including our own does not answer clinical questions but it does open the door to dramatic rapid and efficient answers to questions about the genetic polymorphisms related to diseases in humans The telomerase story also unfolded since the third edition Telomerase is an enzyme responsible for maintaining the telomeres the redundant DNA portions at the end of chromosomes whose shortening seems to be linked directly to cell senescence apoptosis and the control over cell death which at the level of the individual cell seems to be linked to the decline of organ function and eventually aging and death within the organism

Electroanalytical Chemistry Allen J. Bard, 1988-11-15 Provide comprehensive authoritative reviews on recent developments and applications of well established techniques in field of modern electro and electroanalytical chemistry defined in its broadest sense

Multimodality Imaging in Cardiovascular Medicine Christopher M. Kramer, 2011 A Doody's Core Title 2012 New applications of echocardiography nuclear magnetic resonance cardiovascular magnetic resonance and cardiac computed tomography are rapidly developing and it is imperative that trainees and practitioners alike remain up to date in the latest developments It is becoming increasingly difficult to remain abreast of these advances in each individual modality and thus it is no longer practical to focus on one at a time In addition training guidelines are changing and multimodality training has become the norm Multimodality Imaging in Cardiovascular Medicine presents a clear and in depth review of the available technologies and evidence supporting their appropriate clinical applications Hundreds of outstanding images are included to support and augment the discussions from the leading experts in each modality For maximum clinical value rather than organize the content by imaging modality the book is organized by disease so that the reader can utilize the book in real time problem solving and decision making in daily clinical practice Features of Multimodality Imaging in Cardiovascular Medicine Include More than 350 multimodality imaging examples of cardiovascular pathophysiology Corresponding text places the images into context at the interface with patient care State of the art chapters contributed by the leading imaging experts

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

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Echocardiography in Coronary Artery Disease RR Kasliwal,2016-10-31 Applied Echocardiography in CAD is a comprehensive guide to imaging techniques for a variety of heart conditions Divided into two sections section A covers the fundamentals of imaging techniques and section B covers the clinical applications of these techniques Variations of echocardiography in the first section include right heart evaluation contrast echocardiography and tissue Doppler imaging Section B is sub divided into heart conditions including acute coronary syndrome stable angina advanced heart failure and coronary artery diseases in paediatric age groups Each topic begins with a clinical scenario Applied Echocardiography in CAD provides an excellent source of reference for cardiologists and residents faced with these conditions day to day Key Points Comprehensive guide to imaging techniques for a variety of heart conditions Two sections cover the fundamentals of imaging and clinical applications for CAD Excellent day to day reference book for cardiologists and residents Reichel's Care of the Elderly Christine Arenson,Jan Busby-Whitehead,Kenneth Brummel-Smith,James G. O'Brien,Mary H.

Palmer,William Reichel,2009-02-09 The sixth edition remains the pioneering text for the practising physician confronted with the unique problems of an increasingly elderly population Dr William Reichel s formative text is designed as a practical and useful guide for health specialists from medical students to practicing physicians This book is not a collection of subspecialty chapters but rather emphasizes the clinical management of the geriatric patient with simple to complex problems The editors have reviewed every chapter and have included the most up to date advances in the care of the elderly New chapters include hormonal therapy in post menopausal women drug therapy for Alzheimer s sufferers alternative medicine the chronic understaffing of nursing homes management of delirium and ethical issues Comprehensive and written for any clinicians caring for older patients including family physicians general internists nurse practitioners geriatricians and other specialists this esteemed text provides practical and trusted advice Physical Fitness/sports Medicine ,1986 Consists of citations

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Clinical Pharmacy and Therapeutics E-Book Cate Whittlesea, Karen Hodson, 2018-09-11 This new edition of Clinical Pharmacy and Therapeutics was really very helpful when I was doing an MSc course in Advancing Pharmacy Practice and it was really very helpful in all the clinical diseases I have to read for my PBL I also used it as one of my most reliable reference books for the in course simulation ward rounds and other clinical case studies It is a great book to have as a practising clinical or hospital pharmacist or even community pharmacist It will also be of great use to anyone doing a course in pharmacotherapy This book will always be of use to you throughout your studentship or when practising after graduation It is also more portable than most other pharmacotherapy textbooks with the same amount of information Now in its sixth edition this best selling multi disciplinary textbook continues to draw on the skills of pharmacists clinicians and nurses to present optimal drug regimens The authors integrate an understanding of the disease processes with an appreciation of the pathophysiological processes clinical pharmacy and the evidence base Each chapter is co written by a pharmacist and a clinician and each chapter begins with key points and ends with cases to test understanding The sixth edition is now on StudentConsult for the first time giving online access to the full text Key points boxes at the beginning of each chapter Case study boxes throughout the chapters Each chapter co written by a pharmacist and a clinician In depth treatment of therapeutics to support pharmaceutical prescribing Logical order and format key points epidemiology aetiology disease clinical manifestations investigations and treatment drugs used in treatment Dosage reference sources given where appropriate along with useful websites and further reading for each chapter New co editor Karen Hodson Over 10 new authors Now in 4 colour On StudentConsult for the first time New chapter on Dementia Many new and revised illustrations Chapters revised to include advances in therapeutics and changes to dose regimens and licensed indications Updated case studies

Reichel's Care of the Elderly Jan Busby-Whitehead, Samuel C. Durso, Christine Arenson, Mary H. Palmer, Rebecca Elon, William Reichel, 2022-07-21 A clinical guide for all health specialists offering practical relevant and comprehensive information on managing the elderly patient

Critical Pathways in Cardiovascular Medicine Christopher P. Cannon, Patrick T. O'Gara, 2007 Full text medical e book

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