



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

Jin-Ying Zhang



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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 1980 s 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

Drugs for the Heart E-Book Lionel H. Opie,Bernard J. Gersh,2011-12-01 The new edition of this market leading cardiac drug resource equips you with the latest advances in cardiovascular pharmacology one of the most rapidly changing areas of medicine It not only offers in depth information on all of the drug classes used to treat heart disease but also covers new drug classes drug use for single and multiple problem management and more Dynamic full color drawings illustrate key pharmacological and physiological actions and a user friendly organization directs you to the information you need An increased emphasis on the practical use of drugs saves you valuable time in researching relevant information Features the practice proven experience of two well known editors who represent the best possible combination of clinical and research expertise in cardiovascular therapeutics Offers easy to access useful information on when to use each drug and for what conditions in a chapter entitled Which Drug for Which Disease Discusses the management of single diseases and multiple comorbidities Summarizes each drug class at the end of chapters to expedite reference Incorporates all new drugs preparations and clinical trial data in each chapter equipping you to make the most up to date informed clinical decisions Offers expanded coverage of comorbid diseases through new chapters on metabolic syndrome hyperglycemia and diabetes Features an increased emphasis on the practical use of drugs through highlighted sections and key illustrations saving you time in searching for relevant information Presents the work of several new contributors who represent a broad international perspective to equip you with a global view of cardiovascular pharmacology

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 *Cumulated Index Medicus*, 1977

Principles of Ambulatory Medicine Nicholas H. Fiebach, Lee Randol Barker, John Russell Burton, Philip D. Zieve, 2007 Updated for its Seventh Edition Principles of Ambulatory Medicine is the definitive reference for all clinicians caring for adult ambulatory patients It provides in depth coverage of the evaluation management and long term course of all clinical problems addressed in the outpatient setting A major focus is on preventive care grounded in excellent patient physician communication This edition features increased coverage of preventive care particularly the impact of genetic testing as a disease predictor For easy reference the book is organized by body system and each chapter begins with an outline of key topics References to randomized controlled clinical trials meta analyses and consensus based recommendations are boldfaced

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 *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 *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 updated 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

Handbook of Cerebrovascular Diseases, Revised and Expanded Harold P. Adams, 2004-10-29 Spanning a wide array of topics relating to the diagnosis and treatment of cerebrovascular disease this reference collects the latest studies and recommendations from a team of 75 leading authorities on the subject including the management of subarachnoid hemorrhage the treatment of acute ischemic stroke and aneurysms and surgical interventions

Multimodality Imaging in Cardiovascular Medicine Christopher M. Kramer, 2010-10-19 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

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

Acute Coronary Syndromes: A Companion to Braunwald's Heart Disease E-Book Pierre Theroux, 2010-09-24 Acute Coronary Syndromes a Companion to Braunwald's Heart Disease covers the state of the art scientific and clinical information you need to rapidly evaluate and manage acute coronary syndromes Dr Pierre Theroux and his team of expert contributors present advances in diagnostic and imaging techniques such as biomarkers nuclear cardiology echocardiography and multislice CT secondary prevention and new antiplatelet anti ischemic and gene therapies Tap into the most definitive knowledge available from one of the leading experts in the field and a stellar cast of contributors Understand the special considerations for the care of acute coronary syndromes in the emergency department and the coronary care unit Effectively

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P Zipes and Peter Libby this dynamic multimedia reference helps you apply the most recent knowledge in molecular biology and genetics imaging pharmacology interventional cardiology electrophysiology and much more Weekly updates online personally selected by Dr Braunwald continuously keep you current on the most important new developments affecting your practice Enhanced premium online content includes new dynamic cardiac imaging videos heart sound recordings and podcasts With sweeping updates throughout and contributions from a who's who of global cardiology Braunwald's is the cornerstone of effective practice Continuously access the most important new developments affecting your practice with weekly updates personally selected by Dr Braunwald including focused reviews hot off the press commentaries and late breaking clinical trials Practice with confidence and overcome your toughest challenges with advice from the top minds in cardiology today who synthesize the entire state of current knowledge and summarize all of the most recent ACC AHA practice guidelines Locate the answers you need fast thanks to a user friendly full color design with more than 1 200 color illustrations Search the complete contents online at www.expertconsult.com Stay on top of the latest advances in molecular imaging intravascular ultrasound cardiovascular regeneration and tissue engineering device therapy for advanced heart failure atrial fibrillation management structural heart disease Chagas heart disease ethics in cardiovascular medicine the design and conduct of clinical trials and many other timely topics Hone your clinical skills with new dynamic cardiac imaging videos heart sound recordings and podcasts at www.expertconsult.com

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Table of Contents Longterm Management Of Patients After Myocardial Infarction

1. Understanding the eBook Longterm Management Of Patients After Myocardial Infarction
 - The Rise of Digital Reading Longterm Management Of Patients After Myocardial Infarction
 - Advantages of eBooks Over Traditional Books
2. Identifying Longterm Management Of Patients After Myocardial Infarction
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Longterm Management Of Patients After Myocardial Infarction
 - User-Friendly Interface
4. Exploring eBook Recommendations from Longterm Management Of Patients After Myocardial Infarction

- Personalized Recommendations
 - Longterm Management Of Patients After Myocardial Infarction User Reviews and Ratings
 - Longterm Management Of Patients After Myocardial Infarction and Bestseller Lists
5. Accessing Longterm Management Of Patients After Myocardial Infarction Free and Paid eBooks
 - Longterm Management Of Patients After Myocardial Infarction Public Domain eBooks
 - Longterm Management Of Patients After Myocardial Infarction eBook Subscription Services
 - Longterm Management Of Patients After Myocardial Infarction Budget-Friendly Options
 6. Navigating Longterm Management Of Patients After Myocardial Infarction eBook Formats
 - ePub, PDF, MOBI, and More
 - Longterm Management Of Patients After Myocardial Infarction Compatibility with Devices
 - Longterm Management Of Patients After Myocardial Infarction Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Longterm Management Of Patients After Myocardial Infarction
 - Highlighting and Note-Taking Longterm Management Of Patients After Myocardial Infarction
 - Interactive Elements Longterm Management Of Patients After Myocardial Infarction
 8. Staying Engaged with Longterm Management Of Patients After Myocardial Infarction
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Longterm Management Of Patients After Myocardial Infarction
 9. Balancing eBooks and Physical Books Longterm Management Of Patients After Myocardial Infarction
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Longterm Management Of Patients After Myocardial Infarction
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Longterm Management Of Patients After Myocardial Infarction
 - Setting Reading Goals Longterm Management Of Patients After Myocardial Infarction
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Longterm Management Of Patients After Myocardial Infarction

- Fact-Checking eBook Content of Longterm Management Of Patients After Myocardial Infarction
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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