

Original research

Long-term survival benefit of ramipril in patients with acute myocardial infarction complicated by heart failure

Jianhua Wu o 1.2 Alistair S Hall, Chris P Gale, on behalf of the AIREX Study Investigators

 Additional material is. published online only. To view, please visit the journal online (http://dx.doi.org/10.1136/ heartini 2020-3168231

School of Dentistry, University of Leeds, Leeds, UK. "Leeds Institute for Data." Analytics, University of Leeds. Leeds, UK Medicine, Leeds Institute for Genetics Health and Therapeutics, Leeds, UK. Speeds Institute for Cardiovascular and Metabolic Medicine, University of Leeds,

Correspondence to

Leeds, UK

Professor Alistair S Hall, Medicine, Leeds Institute for Genetics Health and Therapeutics, Leeds LS1 3EX, UK; a.s. half@leeds.ac.uk.

Received 13 March 2020: Revised 29 April 2020: Accepted 30 April 2020 Published Online First 15 January 2021

ABSTRACT

Aims ACE inhibition reduces mortality and morbidity in patients with heart failure after acute myocardial. infarction (AMI). However, there are limited randomised data about the long-term survival benefits of ACE. inhibition in this population.

Methods In 1993, the Acute Infarction Ramipril Efficacy (AIRE) study randomly allocated patients with AMI and clinical heart failure to ramipril or placebo. The duration of masked trial therapy in the UK cohort (603 patients, mean age=64.7 years, 455 male patients) was 12.4 and 13.4 months for ramipril (n=302) and placebo (n=301), respectively. We estimated life expectancy and extensions. of life (difference in median survival times) according to duration of follow-up (range 0-29.6 years).

Results: By 9 April 2019, death from all causes occurred in 266 (88.4%) patients in placebo arm and 275 (91.1%) patients in ramipril arm. The extension of life between ramipril and placebo groups was 14.5 months (95% Cl 13.2 to 15.8). Ramipril increased life expectancy more for patients with than without diabetes (life expectancy difference 32.1 vs 5.0 months), previous AMI (20.1 vs 4.9 months), previous heart failure (19.5 vs 4.9 months), hypertension (16.6 vs 8.3 months), angina (16.2 vs 5.0 months) and age >-65 years (11.3 vs 5.7 months). Given potential treatment switching, the true absolute treatment effect could be underestimated by

Conclusion For patients with clinically defined heart failure following AMI, ramipril results in a sustained survival benefit, and is associated with an extension of life of up to 14.5 months for, on average, 13 months treatment duration.

INTRODUCTION

Survival following acute myocardial infarction (AMI) remains a key objective for healthcare professionals and governments throughout the globe. Despite major advances in the emergency treatment and secondary prevention of AMI, a substantial proportion of patients with AMI develop heart failure, which in turn is associated with high morbidity, mortality and healthcare expenditure.2

Moreover, therapeutic inhibition of ACE has become an established strategy in the care of patients with AMI and heart failure.3 ACE inhibition reduces death and disease in patients with left ventricular systolic dysfunction, and coronary artery disease.6-8 In the Acute Infarction Ramipeil

Efficacy (AIRE) study, ACE inhibition at an average follow-up time of 15 months after randomisation significantly reduced all-cause mortality, and continued to confer a survival benefit at 3 years following study closure in the AIRE Extension (AIREX) study. 28 11 Further placebo-controlled survival studies testing the efficacy of ACE inhibition in patients with AMI and clinical heart failure are unlikely because withholding a treatment of accepted clinical value would be unethical. Therefore, in the AIRE survival (AIRE-S) study, we aimed to assess the long-term (29.6 years after randomisation) magnitude of impact on length of survival observed after treatment with ramipril (target dose 5 mg twice daily) when compared with placebo.

METHODS

Patients and design

The rationale, design, organisation, outcome definitions and results of the AIRE study have been published previously.18 12 This was an independent, multinational, multicentre, double-blind, randomised, placebo-controlled, parallel-group investigation into the potential benefits from treatment with the lipophilic ACE inhibitor ramipril (target dose 10 mg/day) following AMI complicated by clinical evidence of heart failure. When the trial was conducted, in 1993, all patients had an ECG and cardiac entryme confirmation of AMI, and also evidence of transient or persisting heart failure as judged by the attending physician (chest X-ray evidence of left ventricular failure, or auscultatory evidence of pulmonary oedema, or a third heart sound in the presence of pensistent tachycardia), usually sufficient to justify discretic or vasodilator therapy. Patients were excluded if they had evidence of clinical instability, contraindications to the use of ACE inhibitor therapy, heart failure of primary valvular or congenital origin or overt heart failure deemed to require treatment with an open-label ACE inhibitor. After applying these entry criteria to consecutive patients admirted to the UK centres (30) centres), 44% of patients approached declined to give their consent to take part in the study. All 603 of the remaining patients were then randomised by telephone to receive masked treatment with either ramipril (titrated over 4 days to 5 mg twice daily) or a matching placebo. Treatment was started between 2 and 9 days after the onset of AMI. Patients initially received either 1.25 or 2.5 mg ramipril or

C Author(s) for their employerfs2l 2021. Re-use permitted under CC BY-MC. No. commercial re-use. See rights and permissions. Published

Check for updates

To differ two it Hullias. Galle CP, et al. Heart 2021,107,389-395.



Longterm Management Of Patients After Myocardial Infarction

Mark Steyvers

Longterm Management Of Patients After Myocardial Infarction:

If you ally dependence such a referred **Longterm Management Of Patients After Myocardial Infarction** books that will pay for you worth, acquire the no question best seller from us currently from several preferred authors. If you desire to droll books, lots of novels, tale, jokes, and more fictions collections are furthermore launched, from best seller to one of the most current released.

You may not be perplexed to enjoy all book collections Longterm Management Of Patients After Myocardial Infarction that we will certainly offer. It is not as regards the costs. Its not quite what you infatuation currently. This Longterm Management Of Patients After Myocardial Infarction, as one of the most full of zip sellers here will certainly be in the course of the best options to review.

https://pinsupreme.com/About/book-search/Documents/Rufus M.pdf

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
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 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

- 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
 - o 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
 - o 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

Longterm Management Of Patients After Myocardial Infarction Introduction

In todays digital age, the availability of Longterm Management Of Patients After Myocardial Infarction books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Longterm Management Of Patients After Myocardial Infarction books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Longterm Management Of Patients After Myocardial Infarction books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Longterm Management Of Patients After Myocardial Infarction versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Longterm Management Of Patients After Myocardial Infarction books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether youre a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Longterm Management Of Patients After Myocardial Infarction books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Longterm Management Of Patients

After Myocardial Infarction books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Longterm Management Of Patients After Myocardial Infarction books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Longterm Management Of Patients After Myocardial Infarction books and manuals for download and embark on your journey of knowledge?

FAQs About Longterm Management Of Patients After Myocardial Infarction Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Longterm Management Of Patients After Myocardial Infarction is one of the best book in our library for free trial. We provide copy of Longterm Management Of Patients After Myocardial Infarction in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Longterm Management Of Patients After Myocardial Infarction. Where to download Longterm Management

Of Patients After Myocardial Infarction online for free? Are you looking for Longterm Management Of Patients After Myocardial Infarction PDF? This is definitely going to save you time and cash in something you should think about.

Find Longterm Management Of Patients After Myocardial Infarction:

rufus m.

rugged waters black journalists swim mainstream

rural peoples responses to change dumaguete trade area philippines.

ruling russia from nicholas ii to stalin longman modern history

rules of ascension

runny rabbit

running girl the diary of ebonee rose

rural tradition

rural solution modern catholic voices on going back to the land rupert and the nutwood stage

rural building crsevol 4 drawin runaway flea circus

rugrats pizza cats rude ralph russia 1855-1991 from tsars to commissars

Longterm Management Of Patients After Myocardial Infarction:

Biologi til tiden Biologi til tiden. 2. udgave. Til biologi C skrevet til 2005-reformen. Forfattere: Lone Als Egebo Biologi til tiden Biologi til tiden. Lydbog med tekst. Afspil. MP3, Daisy. Download · Åbn i appen. Spilletid: 10 timer 53 minutter. Bognummer: 630515. Indlæsningsår: 2015. Nota ... Biologi til tiden by Lone Als Egebo Biologi til tiden. Lone Als Egebo. 3.50. 2 ratings1 review ... Download app for Android. © 2023 Goodreads, Inc. Biologi Til Tiden | PDF Download as PDF, TXT or read online from Scribd. Flag for inappropriate content. Download now. SaveSave Biologi Til Tiden (5) For Later. 0 ratings0% found this ... Biologi Til Tiden s.36-40 PDF Biologi_til_tiden_s.36-40.pdf - Free download as PDF File (.pdf) or read online for free. Biologi til tiden | Noter Dette er vores noter til en del af afsnittene i bogen "Biologi til tiden". Klik på indholdsfortegnelsens links for at komme videre til vores egne noter om ... Biologi Til Tiden [PDF] [6m5ilg61il00] Biology ·

Biologi Til Tiden [PDF]. Includes. Multiple formats; No login requirement; Instant download; Verified by our users. Biologi Til Tiden [PDF]. Authors: ... Biologi i fokus Biologi i fokus · Download i RIS-format (til fx Mendeley, Zotero, EndNote) · Download til RefWorks · Download til EndNoteWeb. Biologi C noter fra Biologi til tiden - Downloadet fra ... Biologi C Noter downloadet fra opgaver.com indholdsfortegnelse kulstofskredsløbet cellens opgning respiration fotosyntese forholdet mellem fotosyntese og, German for Reading (Second Edition) "Organization: German for Reading takes the approach of guickly showing language in context, concentrating on decoding meaning from available clues, and giving ... German for Reading: A Programmed... by Karl C. Sandberg German for Reading: A Programmed Approach for Graduate and Undergraduate Reading Courses [Karl C. Sandberg, John R. Wendel] on Amazon.com. German for Reading(Second Edition) by Wendel, John R. Its programmed format permits it to be used either as a classroom text or by individuals working on their own. The second edition builds on strengths of the ... German for Reading : A Programmed Approach ... German for Reading : A Programmed Approach for Graduate and Undergraduate Reading Courses. Karl C. Sandberg, John R. Wendel. 4.46. 28 ratings3 reviews. German for Reading: A Programmed Approach (Second ... German for Reading presupposes no previous acquaintance with German and can be used with equal effectiveness by graduate students in the arts and sciences ... German for Reading: A Programmed Approach ... Bibliographic information; Title, German for Reading: A Programmed Approach for Graduate and Undergraduate Reading Courses; Authors, Karl C. Sandberg, John R. German for Reading; A Programmed... book by Karl C. ... Book by Karl C. Sandberg, John R. Wendel This description may be from another edition of this product. Edition Details Professional Reviews German for Reading: A Programmed Approach ... German for Reading: A Programmed Approach for Graduate and Undergraduate Reading Courses by Karl C. Sandberg; John R. Wendel - ISBN 10: 0133540197 - ISBN ... German for reading: a programmed approach for graduate ... German for reading: a programmed approach for graduate and undergraduate reading courses; Authors: Karl C. Sandberg, John R. Wendel (Author); Edition: View all ... German for reading: a programmed approach for graduate ... German for reading: a programmed approach for graduate and undergraduate reading courses / by Karl C. Sandberg and John R. Wendel.-book. THE NUMBER LINE: AN AUXILIARY MEANS OR AN ... by C Skoumpourdi · Cited by 19 — Abstract. The aim of this paper is to investigate the ways in which the number line can function in solving mathematical tasks by first graders (6 year ... (PDF) The number line: an auxiliary means or an obstacle? ... The aim of this paper is to investigate the ways in which the number line can function in solving mathematical tasks by first graders (6 year olds). The Number Line: An Auxiliary Means or an Obstacle? - ERIC by C Skoumpourdi \cdot 2010 \cdot Cited by 19 — The main research question was whether the number line functioned as an auxiliary means or as an obstacle for these students. Through analysis ... The Number Line - subtraction, and measurement The number line is not just a school object. It is as much a mathematical idea as functions. Unlike the Number Line Hotel, hundreds charts, Cuisenaire rods, and ... What is a Number Line? | Definition and Examples A number line is useful because

Longterm Management Of Patients After Myocardial Infarction

it acts as a visual math aid. It can support teachers and parents as they teach children how to count and write numbers. It's ... Common Core State Standards for Mathematics figure and can use the strategy of drawing an auxiliary line for solving problems. ... Understand a fraction as a number on the number line; represent fractions ... how kindergartners use auxiliary means to solve problems Sep 3, 2010 — The aim of this paper is to investigate the role that auxiliary means (manipulatives such as cubes and representations such as number line) ... Number Line - Definition, Examples | Inequalities A number line is a visual representation of numbers on a straight line. This line is used to compare numbers that are placed at equal intervals on an infinite ... Massachusetts Mathematics Curriculum Framework — 2017 ... auxiliary line for solving problems. They also can step ... Understand a fraction as a number on the number line; represent fractions on a number line diagram. Michigan Math Standards figure and can use the strategy of drawing an auxiliary line for solving problems. ... A diagram of the number line used to represent numbers and support ...