# Journal of the American Heart Association

### ORIGINAL RESEARCH

# On the Natural History of Coronary Artery Disease: A Longitudinal Nationwide Serial Angiography Study

Moman A. Mohammad , MD, PhD; Gregg W. Stone , MD; Sasha Koul, MD, PhD; Göran K. Olivecrona , MD, PhD; Sofia Bergman , MD; Jonas Persson, MD, PhD; Thomas Engstrem, MD, PhD; Ole Fröbert, MD, PhD; Tomas Jemberg , MD, PhD; Elmir Omerovic , MD, PhD; Stefan James , MD, PhD; Göran Bergström, MD, PhD; David Erlinge , MD, PhD

BACKGROUND: The long-term course of coronary atherosclerosis has not been studied in large nationwide cohorts. Understanding the natural history of coronary atherosclerosis could help identify patients at risk for future coronary events.

METHODS AND RESILTS: All coronary artery segments with <50% luminal stenosis in patients with a first-time coronary angiogram between 1989 and 2017 were identified (n=2661245 coronary artery segments in 248736 patients) and followed until a clinically indicated angiography within 15-years was performed or until death or end of follow-up (April 2018) using SCAAR (Swedish Coronary Angiography and Angioplasty Registry). The stenosis progression and incidence rates were 2.6% and 1.45 (95% Ct, 1.43–1.46) per 1000 segment-years, respectively. The greatest progression rate occurred in the proximal and middle segments of the left anterior descending artery. Male sex and diabetes were associated with a 2-fold increase in risk, and nearly 70% of new stenoses occurred in patients with baseline single-vessel disease (hazard ratio, 3.86 (95% Ct, 3.69–4.04)). Coronary artery segments in patients with no baseline risk factors had a progression rate of 0.6% and incidence rate of 0.36 (95% Ct, 0.34–0.39), increasing to 8.1% and 4.01 (95% Ct, 3.89–4.14) per 1000 segment-years, respectively, in patients with 24 risk factors. The prognostic impact of risk factors on stenosis progression was greatest in younger patients and women.

CONCLUSIONS: Coronary atherosclerosis progressed slowly but more frequently in the left coronary artery in men and in the presence of traditional risk factors. Coronary artery segments in patients without risk factors had little or no risk of stenosis progression, and the relative impact of risk factors appears to be of greater importance in younger patients and women. These findings help in the understanding the long-term course of coronary atherosclerosis.

Key Words: coronary artery disease ■ ischemic heart disease ■ natural history

has not been studied in large cohorts. Information derived from autopsies of US soldiers killed in the Korean war showed that 40% had some degree of luminal narrowing. Postmortem and intravascular ultrasound studies have shown that most acute coronary events coincide with thrombosis of a coronary atheroscierotic plaque caused by either nupture or erosion. The prospective PROSPECT II (Providing Regional)

Observations to Study Predictors of Events in the Coronary Tree) reported that major adverse cardiovascular events emanates from untreated angiographically mild coronary lesions with a large plaque burden with a lipid-rich core. Small serial examination studies using coronary angiography and coronary computed tomography angiography (CCTA) have been conducted but follow-up time has primarily been in the range of 1 to 2 years.

Correspondence to: Moman A. Mohammad, MD, PhD. Department of Cardiology, Skline University Hospital, Entregatan 7, 22185 Lundt, Sweden, Email: moman ataldin@gmail.com/moman.mohammad@med.lu.se

Supplemental Material is available at https://www.ahagoumais.org/doi/suppl/10.1161/JAHA.122.026096

For Sources of Funding and Disclosures, see page 12.

© 2022 The Authors. Published on behalf of the American Heart Association, Inc., by Wiley. This is an open access article under the terms of the Creative Commons Astrocution—HeroCommence—

"DAPAA is avadiatole at: www.ustajournals.org/journal/jaha.

# **Natural History Of Coronary Atherosclerosis**

Yan Bai

**Natural History Of Coronary Atherosclerosis:** 

### Natural History Of Coronary Atherosclerosis Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Natural History Of Coronary Atherosclerosis**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

https://pinsupreme.com/public/uploaded-files/fetch.php/Mortgaging The Earth.pdf

# **Table of Contents Natural History Of Coronary Atherosclerosis**

- 1. Understanding the eBook Natural History Of Coronary Atherosclerosis
  - The Rise of Digital Reading Natural History Of Coronary Atherosclerosis
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Natural History Of Coronary Atherosclerosis
  - 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 Natural History Of Coronary Atherosclerosis
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Natural History Of Coronary Atherosclerosis
  - Personalized Recommendations
  - Natural History Of Coronary Atherosclerosis User Reviews and Ratings
  - Natural History Of Coronary Atherosclerosis and Bestseller Lists

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

#### **Natural History Of Coronary Atherosclerosis Introduction**

In todays digital age, the availability of Natural History Of Coronary Atherosclerosis 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 Natural History Of Coronary Atherosclerosis books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Natural History Of Coronary Atherosclerosis 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 Natural History Of Coronary Atherosclerosis 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, Natural History Of Coronary Atherosclerosis 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 Natural History Of Coronary Atherosclerosis 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 Natural History Of Coronary Atherosclerosis 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, Natural History Of Coronary Atherosclerosis 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 Natural History Of Coronary Atherosclerosis books and manuals for download and embark on your journey of knowledge?

#### **FAQs About Natural History Of Coronary Atherosclerosis 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. Natural History Of Coronary Atherosclerosis is one of the best book in our library for free trial. We provide copy of Natural History Of Coronary Atherosclerosis online for free? Are you looking for Natural History Of Coronary Atherosclerosis online for free? Are you looking for Natural History Of Coronary Atherosclerosis PDF? This is definitely going to save you time and cash in something you should think about.

## **Find Natural History Of Coronary Atherosclerosis:**

mortgaging the earth

more vegetables please delicious vegetable side dishes for everyday meals

mosaic a content-based writing;

morehead on bidding

mother goose stories humpty dumpty

mortuary academy

morn of mystery

more than a rose

moskovskaia gorodskaia uchitelskaia seminariia 1997 nauchnyi sbornik

mormons answered verse by verse

moss and adams heart disease in infants children and adolescents

mother less child 1st edition

more toys and gifts for you to make

moreau factor

moskovskii zhilishchnyi spravochnik

#### **Natural History Of Coronary Atherosclerosis:**

Engineering Mechanics Dynamics (7th Edition) ... Dynamics. Seventh Edition. J. L. Meriam. L. G. Kraige. Virginia Polytechnic Institute and State University ... This book is printed on acid-free paper. Founded in ... Engineering-mechanics-dynamics-7th-edition-solutions ... Download Meriam Kraige Engineering Mechanics Dynamics 7th Edition Solution Manual PDF file for free, Get many PDF Ebooks from our online library related ... Engineering Mechanics Dynamics 7th Edition Solution ... Fill Engineering Mechanics Dynamics 7th Edition Solution Manual Pdf, Edit online. Sign, fax and printable from PC, iPad, tablet or mobile with pdfFiller ... Engineering mechanics statics - j. l. meriam (7th edition) solution manual ... free-body diagrams-the most important skill needed to solve mechanics problems. Engineering Mechanics Statics 7th Edition Meriam Solutions Manual - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Instructors Solution Manual, Static- Meriam and L. G. Kraige Read and Download PDF Ebook engineering mechanics statics 7th edition solution manual meriam kraige at Online Ebook Libr. 2,307 79 40KB Read more ... Meriam J.L., Kraige L.G. Engineering Mechanics Statics. ... ENGINEERING

MECHANICS STATICS 7TH EDITION SOLUTION MANUAL MERIAM KRAIGE PDF · Engineering Mechanics Statics Solution Manual Meriam Kraige PDF · Meriam Instructors ... Dynamics Meriam Kraige 7th Edition? Sep 9, 2018 — Where can I download the solutions manual of Engineering Mechanics: Dynamics Meriam Kraige 7th Edition? ... Dynamics (14th ed) PDF + Instructors ... Engineering Mechanics - Dynamics, 7th Ed (J. L. Meriam ... I have the comprehensive instructor's solution manuals in an electronic format for the following textbooks. They include full solutions to all the problems ... Engineering Mechanics Dynamics (7th Edition) Sign in. The SAGE Handbook of Nations and Nationalism The overall aim of this Handbook is to relate theories and debates within and across a range of disciplines, illuminate themes and issues of central importance ... The SAGE Handbook of Nations and Nationalism This Handbook gives readers a critical survey of the latest theories and debates and provides a glimpse of the issues that will shape their future. Its three ... The SAGE Handbook of Nations and... by Delanty, Gerard The overall aim of this Handbook is to relate theories and debates within and across a range of disciplines, illuminate themes and issues of central importance ... The SAGE Handbook of Nations and Nationalism The overall aim of this Handbook is to relate theories and debates within and across a range of disciplines, illuminate themes and issues of central importance ... The SAGE handbook of nations and nationalism - NOBLE Web Includes bibliographical references and index. Contents: pt. 1. Approaches. Nationalism and the historians / Krishan Kumar -- Modernization and communication .. The SAGE handbook of nations and nationalism - Falvey Library The SAGE handbook of nations and nationalism / · 1. Nationalism and the historians / Krishan Kumar · 2. Modernization and communication as factors of nation ... The SAGE Handbook of Nations and Nationalism This Handbook gives readers a critical survey of the latest theories and debates and provides a glimpse of the issues that will shape their future. Its three ... The SAGE Handbook of Nations and Nationalism The SAGE Handbook of Nations and Nationalism gives readers a critical survey of the latest theories and debates and provides a glimpse of the issues that ... The Sage Handbook of Nations and Nationalism The overall aim of this Handbook is to relate theories and debates within and across a range of disciplines, illuminate themes and issues of central importance ... The Sage Handbook of Nations and Nationalism 1412901014 ... The SAGEHandbook of Nations and Nationalismgives readers a critical survey of the latest theories and debates and provid... Standard Operating Procedure for Sales Optimize your sales success with our meticulously crafted Standard Operating Procedure (SOP) for Sales. Elevate your business processes with expert guidance ... 7 SOP Examples to Steal for Your Team Jul 13, 2023 — We share seven SOP examples across business units. Use these standard operating procedure examples to build your own SOPs. 8 Standard Operating Procedure (SOP) Examples Jul 23, 2023 — Example 5: Sales SOP for acquiring new clients ... Complete the phone conversation and send any interested clients' information to the sales ... Sales Department SOP Template The Sales Department SOP Template is a game-changer for any sales team. Here are ... Sales Rep," to provide visibility and better manage your sales pipeline. Template: SOP Sales Jan 19, 2023 — The Sales team compiles a customised offer / contract that

must be approved by Management and the QMO. Approval must be documented. The offer / ... Sales Standard Operating Procedure- Best Practices and ... Apr 20, 2023 — Keep a clear, concise and simple language ... When it comes to writing Standard Operating Procedures (SOPs), it's important to keep a clear, ... 20 SOP Examples You Can Steal From Today May 18, 2022 — Step 2: A sales rep analyzes performance from the previous quarter's sales prospecting. Step 3: With the help of Sales Navigator, the sales ... How to Write the Best SOPs for Your Company Aug 19, 2021 — Standard Operating Procedures Format · Title: SOPs should always begin with a title that briefly but fully encapsulates the purpose of the ... Sales SOP (Standard Operating Procedure) Feb 25, 2016 — Part of my job is to sell the products that I have developed. "Sell me a pen.