

openheart Accelerating progress in cardiology: embracing open science

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Open science is not only compelling but also essential for the advancement of cardiology. Open science encompasses open-access publishing, data sharing and open source. It embodies a set of practices aiming for greater transparency and collaboration in research (figure 1). It is pivotal for driving innovation, ensuring research integrity and democratising access to scientific knowledge. The societal impact of open science extends beyond the scientific community, reaching also patients at the heart of our research. Open access to research findings is empowering patients to make informed decisions about their care.

Open science enhances research in multiple ways: importantly, it augments reach. For instance, open-access publishing has been linked to higher citation rates, often receiving more media coverage and more downloads, all contributing to increased visibility and a wider reach and impact of the research.¹ Open science can enhance the quality of research through rigorous prepublication and postpublication peer review and open discussion.² The COVID-19 pandemic has underscored the benefits of these open science principles: accelerating research efforts, avoiding 'research waste' and improving transparency and credibility.³

This study of Cobey *et al* reports on a survey exploring open science practices among international cardiology researchers sheds light on crucial insights.⁴ While there is a general awareness of open science, there exists a notable gap especially in training and implementation. This gap underscores the urgent need for structured educational resources and institutional support to empower the adoption of open science practices in cardiology research.

The survey serves as a foundational step towards understanding the current landscape of open science in cardiology. Moving forward, it is crucial to continue promoting open science practices, providing the

necessary support and resources and recognising the substantial benefits they offer. As we embrace open science, we pave the way for a more collaborative, transparent and impactful future in cardiovascular research. Defining and reducing barriers for open science, including improved training, is essential as also stated by the recent UNESCO recommendations and should be a collaborative approach involving funders, research institutions and journals to create a supportive environment.⁵

Open Heart is committed to playing a role in this endeavour by fostering a culture of openness and collaboration within the cardiology community. At *Open Heart*, we strongly encourage that data underlying a research paper be made publicly available, and all research articles must contain a 'data availability statement'.

Embracing open science is imperative for the future of cardiovascular medicine. I urge our readers, cardiologists and cardiovascular researchers to embrace open science practices and to advocate for their adoption in our field, for example, by publishing your research open access in order to make it publicly available, by

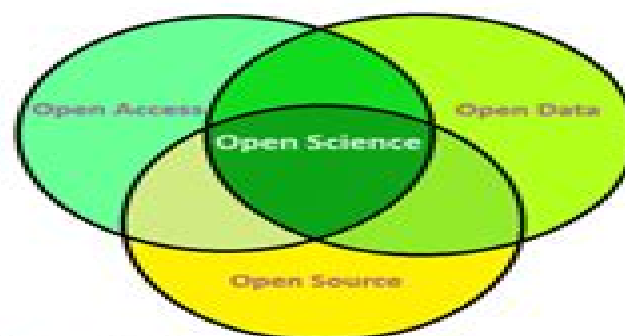


Figure 1 The main components of open science.



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Progress In Cardiology Vol 5

Donald O. Thompson, Dale E. Chimenti



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New Concepts in Echocardiography N. Bom, 2012-12-06 Present day cardiology is in great need of non invasive non toxic and inexpensive devices which permit the delineation and visualization of normal and abnormal intracardiac structures the calculation of intra cardiac volumes and study of contractility of the cardiac muscle All of these may become within our reach if the principles outlined in this book and the preliminary clinical experience can be validated in general cardiac practise The gist of one of the devices visualization of the in vivo moving heart recorded on a short motion picture is available to the interested reader on a 16 mm filmstrip Rotterdam June 1972 P G Hugenholtz Professor of Cardiology CONTENTS CHAPTER I INTRODUCTION TO ECHOCARDIOGRAPHY 9 1 General remarks 9 2 Purpose of this study 10 CHAPTER II PRINCIPLES OF ULTRASOUND 12 The piezo electric effect 1 12 2 Some physical properties of ultrasound 13 a Attenuation 13 b Reflection of sound 13 c Near and far field 13 3 Scanning and recording techniques 15 a Example of depth sonar 15 b A scan and Time Motion recording 17 c Single element 8 scan techniques 17 4 The Doppler effect 17 CHAPTER III PRESENT APPLICATIONS IN CARDIOLOGY 19 1 General remarks 19 2 Mitral stenosis 20 3 Pericardial effusion 23 4 Other applications 26 a Mitral insufficiency 26 b Tricuspid stenosis 26 c Idiopathic hypertrophic subaortic stenosis 26 d Aortic valve study 26 e Internal dimensions 27 5 On the use of Doppler 28 6 **Progress in Experimental Tumor Research** F. Homburger, 1968

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Review of Progress in Quantitative Nondestructive Evaluation Donald O. Thompson, Dale E. Chimenti, 2012-12-06 These Proceedings consisting of Parts A and B contain the edited versions of most of the papers presented at the annual Review of Progress in Quantitative Nondestructive Evaluation held at Snowmass Village Colorado on July 31 to August 4 1994 The Review was organized by the Center for NDE at Iowa State University in cooperation with the Ames Laboratory of the US DOE the Materials Directorate of the Wright Laboratory Wright Patterson Air Force Base the American Society of Nondestructive Testing the Department of Energy the National Institute of Standards and Technology the Federal Aviation Administration the National Science Foundation Industry University Cooperative Research Centers and the Working Group in Quantitative NDE This year s Review of Progress in QNDE was attended by approximately 450 participants from the U S and many foreign countries who presented over 360 papers The meeting was divided into 36 sessions with as many as four sessions running concurrently The Review covered all phases of NDE research and development from fundamental investigations to engineering applications or inspection systems and it included many important methods of inspection science from acoustics to x rays In the last eight to ten years the Review has stabilized at about its current size which most

participants seem to agree is large enough to permit a full scale overview of the latest developments but still small enough to retain the collegial atmosphere which has marked the Review since its inception

Progress in Neurological Surgery H. Krayenbühl, P. E. Maspeš, W. H. Sweet, 1968-11-30

Progress in Hemodialysis Angelo Carpi, Carlo Donadio, Gianfranco Tramonti, 2011-11-07 Hemodialysis HD represents the first successful long term substitutive therapy with an artificial organ for severe failure of a vital organ Because HD was started many decades ago a book on HD may not appear to be up to date Indeed HD covers many basic and clinical aspects and this book reflects the rapid expansion of new and controversial aspects either in the biotechnological or in the clinical field This book revises new technologies and therapeutic options to improve dialysis treatment of uremic patients This book consists of three parts modeling methods and technique prognosis and complications

Carcinogenesis and Carcinogen Testing, 1968-11

The Pathogenesis of the Chronic Obstructive Bronchopulmonary Disease R. S. Mitchell, 1964-11-30

Ischaemic Heart Disease K. Fox, 2012-12-06 This book attempts to focus on the most important clinical aspects of ischaemic heart disease Clearly in no way is it supposed to be a comprehensive review of the subject but it does attempt to address the most important topics for everyday practising clinicians The question of epidemiology is topical both in the lay and medical press and is therefore covered in some detail It is the editor's opinion that proper understanding of the clinical manifestations of the disease and therefore subsequent investigation and treatment are based on a detailed understanding of the pathology and pathophysiology and as a result these subjects have also been covered in detail In the last decade there have been considerable advances in our understanding of the mechanisms of angina and also the haemodynamic and metabolic consequences of both angina and myocardial infarction Again if appropriate investigations and treatment are to be undertaken they can only be done with the proper knowledge of the disease being investigated Finally the investigation and management of the various manifestations of ischaemic heart disease have been addressed In the last ten years there has been an explosion in the drugs available for the treatment of ischaemic heart disease and how they should be used has become much more sophisticated The place of coronary artery surgery has now been rationalized and angioplasty provides an important adjunct to treatment

Leukemia in Animals and Man H. J. Bendixen, 1968-08-19

Federal Register, 1976

Computers, Electrocardiography, and Public Health Medical Systems Development Laboratory, 1967

Myocardial Perfusion, Reperfusion, Coronary Venous Retroperfusion S. Meerbaum, 2013-04-17 The primary goal of this book is to survey issues pertaining to coronary venous retroperfusion a potentially beneficial treatment of myocardial ischemia Since attention will be focused on the myocardium its normal or deranged antegrade perfusion will be discussed first along with factors affecting blood supply to region ally ischemic tissue After pointing to coronary reperfusion and its rapidly expanding applications the principle of coronary venous interventions will be discussed Recent anatomic observations are presented to clarify features of the coronary venous systems some of which remain inadequately defined yet play a crucial role in determining effectiveness of

all retrograde methods The remainder of the text concentrates on the development of retroperfusion systems designed for retrograde treatment of myocardium jeopardized by deficient ante grade blood delivery secondary to coronary artery obstruction Retroinfusion of contrast is also considered as a potential diagnostic tool The final chapter of the book reports on recent efforts aimed at a mathematical modeling of mechanisms and effects of coronary venous interventions Electron Beam Therapy, 1968-03-28 Antibiotic Treatment of Venereal Diseases A. Luger, 1968-06-24 *Progress against Heart Disease* Fred C. Pampel, Seth Pauley, 2004-07-30 In the last 35 years declining deaths from heart disease have translated into 13 million lives saved and extended Medical treatments and lifestyle changes have dealt successfully with the serious heart problems of Vice President Richard Cheney talk show host David Letterman Disney ABC CEO Michael Eisner and countless other less famous people In the past those with serious heart disease would have died young but today can live long and active lives Few families have not benefited from improvements in the way we treat and prevent heart problems yet we often hear that poor lifestyles and the limitations of modern medicine threaten our health and well being Although room for improvement always remains this book provides evidence to the contrary we have made and continue to make tremendous progress in dealing with heart disease In reviewing the progress being made in this crucially important area of health Pampel and Pauley offer an optimistic view of the potential for continued improvement and for longer healthier lives Despite the prevalence of heart disease deaths from this cause have declined greatly in past decades From its peak in 1968 the heart disease mortality rate has fallen by 52% for men and 48% for women That translates into over 13 million lives saved and extended The lives saved are not limited to the very old To the contrary heart disease mortality has fallen faster among the young and middle aged Medical Books and Serials in Print, 1984 **Professor Hein J.J. Wellens: 33 Years of Cardiology and Arrhythmology** J. Smeets, P.A.F.M. Doevendans, M. Josephson, Ch. Kirchhof, M. Vos, 2012-12-06 The first invasive evaluation of cardiac arrhythmias in humans was performed in 1967 in Paris Prof P Coumel and Amsterdam Prof D Durrer This was the start of a rapid increase in our knowledge of the diagnosis mechanism and treatment of cardiac arrhythmias In that same year Prof Hein J J Wellens became cardiologist in the Wilhelmina Gasthuis in Amsterdam Initially in Amsterdam 1967 1977 and later on in Maastricht from 1977 he was the driving force for many breakthroughs in clinical cardiac electrophysiology With an active interplay between the knowledge derived from the 12 lead electrocardiogram and the recordings made with invasive electrophysiology he composed new ideas leading to major contributions in clinical cardiac electrophysiology and more generally in arrhythmology He published over 650 scientific papers and 14 books and had numerous functions within scientific boards of prestigious journals In addition he trained more than 120 cardiologists in clinical cardiac electrophysiology On the occasion of the congress 2000 Future of Arrhythmology Lessons From the Past Promises For Tomorrow we highlight the scientific work of Prof Hein J J Wellens A selection of more than 60 articles over the whole time span has been selected These articles are accompanied by comments from an expert co worker and or former

follow in order to place the paper in a scientific time frame including the relationship of the author with Prof Hein J J Wellens

Progress in Physics, vol. 4/2017 Dmitri Rabounski ,Florentin Smarandache, Larissa Borissova, The Journal on
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