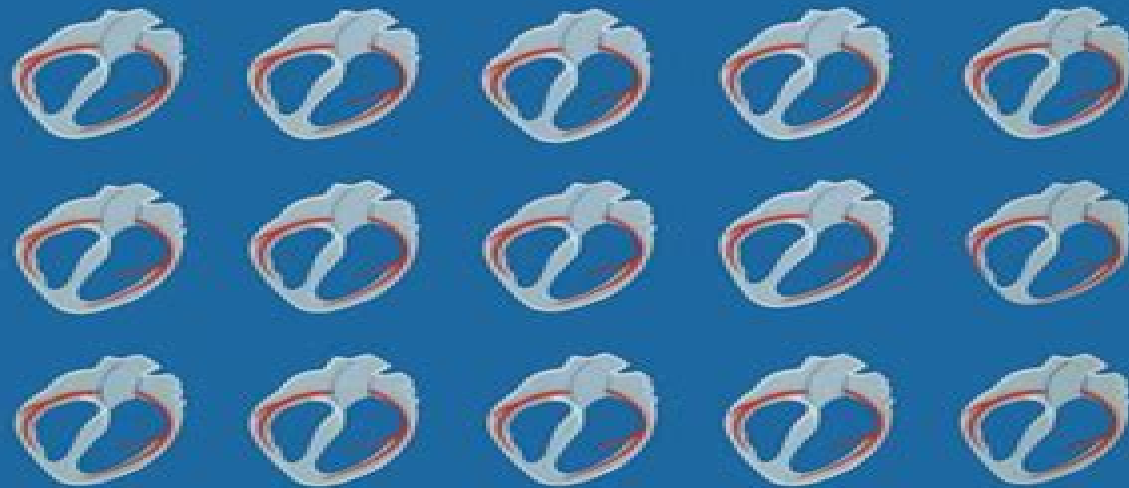

Stunning, Hibernation, and Calcium in Myocardial Ischemia and Reperfusion

Edited by
Lionel H. Opie



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Stunning Hibernation And Calcium In Myocardial Ischemia And Reperfusion

SJ Ball



Stunning Hibernation And Calcium In Myocardial Ischemia And Reperfusion:

Stunning, Hibernation, and Calcium in Myocardial Ischemia and Reperfusion Lionel H. Opie, 2012-12-06 Stunning is potentially an important complication of myocardial reperfusion In contrast hibernation is an important complication of myocardial ischemia This book presents different viewpoints on these subjects taken from a series of peer reviewed articles which first appeared in Cardiovascular Drugs and Therapy and now in this book In addition a certain number of articles were directly invited for the book The introductory article is by Eugene Braunwald who with Kloner introduced the term myocardial stunning in 1982 The experimental phenomenon had first been described by Heyndrickx et al This important concept of stunning is examined from a number of points of view in a series of articles which clarify the experimental causes and the clinical implications The section on hibernation is introduced by Tubau and Rahimtoola the latter having first propounded the concept in 1989 The difference between stunning and hibernation is that stunning is essentially a post ischemic dysfunction of the myocardium temporary in nature occurring at a time when coronary blood flow is apparently normal or supranormal Hibernation on the other hand is a condition of reduced contractile activity the direct result of chronic ischemia and hence a sign of a tolerable reduction in blood flow Possibly the reduction in contractile activity of the hibernating heart balances the reduction in the oxygen availability the smart heart of Rahimtoola This non contractile heart is hibernating awaiting the return of summer after winter and willing to contract normally again whenever warm coronary blood is restored It is certain that the concepts of stunning and hibernation are here to stay that they have or will have clinical relevance and that the search for the most appropriate diagnosis and therapy for each condition is now under way Hence a greater understanding of the experimental work which underlies these two conditions is highly appropriate

Stunning, Hibernation, and Calcium in Myocardial Ischemia and Reperfusion Lionel H Opie, 1992-09-30

Stunning, Hibernation, and Calcium in Myocardial Ischemia and Reperfusion Lionel H. Opie, 1992-09-30 Stunning is potentially an important complication of myocardial reperfusion In contrast hibernation is an important complication of myocardial ischemia This book presents different viewpoints on these subjects taken from a series of peer reviewed articles which first appeared in Cardiovascular Drugs and Therapy and now in this book In addition a certain number of articles were directly invited for the book The introductory article is by Eugene Braunwald who with Kloner introduced the term myocardial stunning in 1982 The experimental phenomenon had first been described by Heyndrickx et al This important concept of stunning is examined from a number of points of view in a series of articles which clarify the experimental causes and the clinical implications The section on hibernation is introduced by Tubau and Rahimtoola the latter having first propounded the concept in 1989 The difference between stunning and hibernation is that stunning is essentially a post ischemic dysfunction of the myocardium temporary in nature occurring at a time when coronary blood flow is apparently normal or supranormal Hibernation on the other hand is a condition of reduced contractile activity the direct result of

chronic ischemia and hence a sign of a tolerable reduction in blood flow Possibly the reduction in contractile activity of the hibernating heart balances the reduction in the oxygen availability the smart heart of Rahimtoola This non contractile heart is hibernating awaiting the return of summer after winter and willing to contract normally again whenever warm coronary blood is restored It is certain that the concepts of stunning and hibernation are here to stay that they have or will have clinical relevance and that the search for the most appropriate diagnosis and therapy for each condition is now under way Hence a greater understanding of the experimental work which underlies these two conditions is highly appropriate

Myocardial Ischemia Dennis V. P. Cokkinos, C. Pantos, Gerd Heusch, H. Taegtmeyer, 2006-03-08 Effective new treatments of heart disease are based on a refined understanding of cellular function and the heart's response to environmental stresses Not surprisingly therefore the field of experimental cardiology has experienced a phase of rapid exponential growth during the last decade The acquisition of new knowledge has been so fast that textbooks of cardiology or textbooks of cardiovascular physiology are often hard pressed to keep up with the most important conceptual advances Witness the explosive increase in knowledge about signaling pathways of cardiac growth transcriptional regulation of cardiac metabolism hormonal signaling and the complex responses of the heart to ischemia reperfusion or ischemic preconditioning This book is meant to bridge the gap between original literature and textbook reviews It brings together investigators of various backgrounds who share their expertise in the biology of myocardial ischemia Each chapter is a self contained mini review but it will soon become apparent to the reader that there is also a common thread Molecular and cellular cardiology has never been more exciting than now but ever more exciting times are yet to come The Editors ACKNOWLEDGEMENTS Publication of this book was generously supported by Sanofi Aventis Hellas Eikon creative team provided the technical assistance in preparing the manuscripts We thank Dr Bernard Swynghedauw for all his scientific support

Myocardial Viability A.E. Iskandrian, Ernst E. van der Wall, 2012-12-06 AMI E ISKANDRIAN we appreciate their commitments and contributions Almost all chapters have been radically modified Chapter 1 deals with pathophysiology of myocardial hibernation and stunning Chapter 2 with apoptosis Chapter 3 with the role of positron emission tomography Chapters 4 and 5 with the role of single photon emission computed tomography with thallium 201 and technetium agents respectively Chapter 6 with the role of SPECT fatty acid imaging Chapter 7 with the role of SPECT FDG imaging Chapter 8 with the role of cardiac catheterization angiography Chapter 9 with the role of echocardiography Chapter 10 with the role of magnetic resonance imaging and Chapter 11 with clinical applications Finally Chapter 12 provides a short summary

Sabiston and Spencer Surgery of the Chest, E-Book Frank W. Sellke, Pedro J. del Nido, Scott J. Swanson, 2023-09-27 Selected for Doody's Core Titles 2024 in Thoracic Surgery The only text to cover the full range of adult cardiac thoracic and pediatric chest surgery Sabiston and Spencer Surgery of the Chest 10th edition provides unparalleled guidance in a single two volume resource This gold standard reference edited by Drs Frank Sellke Pedro del Nido and Scott Swanson covers today's most important knowledge and techniques in cardiac and

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Molecular Mechanisms of Cardiac Hypertrophy and Failure Richard A. Walsh, 2005-11-29 This title reviews current knowledge of the mechanisms contributing to heart failure Editor Richard Walsh and an internationally renowned team of contributors discuss key advances in molecular and cell biology biochemistry and pharmacology focusing on advances that have a direct bearing on current clinical studies It highlights developments across a broad range of disciplines with in depth coverage of each topic providing background and perspective on current literature By setting new advances in a broader context this text allows readers to compare different ideas and evaluate their importance in their own areas of research or clinical practice

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