

**OBESITY**

QRS fragmentation  
Fibrosis  
Ion channel remodelling  
↓ connexin proteins  
Epicardial adipose tissue

Ventricular Tachycardia/  
Ventricular Fibrillation

**SUDDEN  
CARDIAC DEATH**

**RISK FACTORS**

Physical inactivity  
Hypertension  
Dyslipidemia  
Poor diet  
Excess alcohol  
Diabetes  
Smoking

Atrial remodelling  
Fibrosis  
↑ Expression of endothelin receptors  
Abnormal atrial conduction  
↑ Pericardial fat volume  
Impaired contractility  
Epicardial adipose tissue

Pro-Arrhythmic  
Substrate

**ATRIAL  
FIBRILLATION**

**RISK FACTOR MANAGEMENT**

↓ Blood pressure      ↓ AF burden  
Lipid profile          ↓ AF symptoms  
Glycemic control      AF reversal

# Obesity Impact On Cardiovascular Disease

**Sylvia Talkington, Ginger Raterink**



## **Obesity Impact On Cardiovascular Disease:**

**Obesity** Gerald Fletcher, Scott Grundy, Laura Hayman, 1999-12-16 Obesity is becoming increasingly prevalent in a worldwide context and has been recognised as a major contributing factor in heart disease This volume was authored by the participants in a 1998 AHA sponsored conference on the impact of obesity on cardiovascular disease The three main sections of the book set out to evaluate current research pertaining to causation and cardiovascular sequela of obesity Part I defines obesity exploring its epidemiology its genetic and non genetic influences and its contribution to the problem of cardiovascular disease Special attention is given to the primary prevention of obesity as a means of avoiding specific sequelae as well as the difficulties experienced by those who try to lose weight Part II deals with the relatively new and much heralded discovery of obesity related genes the current state of diet drugs and valvular heart disease and the interaction of obesity and metabolism hormonal regulation and various other biological systems Recent basic advances in the biological understanding of obesity are introduced Part III suggests the most accurate ways of assessing BMI of defining helpful dietary strategies and of managing the issues involved in the implementation of physical activity and pharmacological intervention as a means to decrease and maintain weight Quality of life economic issues and managed care settings are also discussed

**Biochemistry of Cardiovascular Dysfunction in Obesity** Paramjit S. Tappia, Sukhwinder K. Bhullar, Naranjan S. Dhalla, 2020-10-03 Obesity is an independent risk factor for cardiovascular disease CVD in adults as well as in obese children This book will provide a description of the impact of obesity on the cardiovascular system and increased predisposition to CVD It will identify the major biochemical mechanisms that lead to the occurrence of myocardial abnormalities and vascular alterations in obesity We will also have some discussion on the biochemistry of the so called obesity paradox in relation to CVD The contributors to this book are international experts on obesity and associated cardiovascular complications This book is also uniquely positioned as it focuses on the biochemistry of obesity induced cardiovascular dysfunction There are 20 chapters in 2 different parts in this book comprising of Part A Pathophysiology of Cardiovascular Complications in Obesity 11 chapters and Part B Modification of Cardiovascular Dysfunction in obesity 9 chapters The intent of this volume is to provide current and basic understanding of the biochemical mechanisms of obesity induced cardiovascular dysfunction that will be of value not only to cardiologists and other allied health professionals but will also stimulate and motivate biomedical researchers and scientists to find the way to prevent the epidemic of obesity associated cardiovascular abnormalities Furthermore this book will serve as a highly useful resource for medical students fellows residents and graduate students with an interest in the cardiovascular system In summary this book covers a broad range of biochemical mechanisms of obesity induced cardiovascular complications We hope that the reader will understand that obesity is linked to an increase in the risk and occurrence of fatal CVD Furthermore the underlying message presented in the book is that the cause of obesity related disorders is complex and that understanding the biochemistry of cardiovascular dysfunction may contribute to the

development of novel interventions for the prevention and treatment of obesity associated comorbidities

**Obesity and Cardiovascular Disease** Malcolm K Robinson, Abraham Thomas, 2006-03-07 Although cardiovascular disease remains the leading proximate cause of death in the United States it is now estimated that obesity may be equivalent to smoking as the leading cause of preventable death in America In light of these statistics this reference presents our current understanding of the epidemiology pathology and genetics of the obe

*Medicine Update 2024 (Two Volumes) and Progress in Medicine 2024* Milind Y Nadkar, Jyotirmoy Pal, 2024-02-13

*The ASMBS Textbook of Bariatric Surgery* Ninh T. Nguyen, Robin P. Blackstone, John M. Morton, Jaime Ponce, Raul J. Rosenthal, 2014-09-17 Developed by the American Society for Metabolic and Bariatric Surgery ASMBS The ASMBS Textbook of Bariatric Surgery provides a comprehensive guide of information dealing with the ever evolving field of bariatric surgery Volume 1 Bariatric Surgery covers the basic considerations for bariatric surgery the currently accepted procedures outcomes of bariatric surgery including long term weight loss improvement and resolution of comorbidities and improvement in quality of life A section focuses on revisional bariatric surgery and new innovative endoscopic bariatric procedures Other special emphasis given to the topics of metabolic surgery and surgery for patients with lower BMI 30 35 Volume II Integrated Health is divided into 3 sections bariatric medicine psychosocial and nutritional aspects of bariatric surgery The first section deals with the psychosocial issues associated with morbid obesity The second section deals with the role of bariatric physicians in preoperative and postoperative support of the bariatric patients The nutritional section discusses the preoperative and postoperative nutritional support for the bariatric patient The ASMBS Textbook of Bariatric Surgery will be of great value to surgeons residents and fellows bariatric physicians psychologists psychiatrists and integrated health members that manage the morbidly obese

*Obesity and Associated Cardiovascular Disease Risk Factors*, 2009 Cardiovascular disease CVD is the leading cause of death among American Indian Alaska Native AIAN adults Obesity and other CVD risk factors such as smoking diabetes and hypertension are more prevalent in many AIAN populations compared to the overall US Osteoarthritis OA prevalence may be elevated as obesity is a risk factor for OA and arthritis is present in half of adults with diabetes or hypertension The purpose of this dissertation was to examine age and gender specific obesity prevalence in Southern California AIAN children and adults and assess the age and gender specific association of obesity and smoking with diabetes and hypertension and the association of these risk factors with OA in adults Visit data from 10 000 AIAN children and adults attending a Southern California AIAN health clinic system during 2002 2006 were used More than one third of AIAN children aged 6 17 years were obese with more obesity in boys than girls In adults obesity 54% smoking 17% diabetes 15% and hypertension 34% were very prevalent For women increasing obesity was associated with diabetes but for men only morbid obesity was associated with diabetes Smoking was associated with diabetes for some age groups Increasing overweight obesity and smoking were associated with hypertension among men and women aged 18 65 years Age adjusted OA prevalence was higher in women 16 5% than men 11 5% and

prevalence increased with age Extreme levels of obesity were associated with higher OA prevalence in some age groups Hypertension was strongly associated with increased OA and current smoking tended to be associated with increased OA Diabetes was associated with more OA for women aged 35-54 years Southern California AIAN had higher obesity diabetes and hypertension prevalence than the general Southern California population and higher obesity prevalence compared to other AIAN communities In contrast OA prevalence may be less than overall US prevalence with no reliable comparisons to other AIAN communities available AIAN communities are understudied and their diversity makes it difficult to generalize health information from one location or tribe to another Comprehensive research and interventions tailored to cultural customs and the health problems most prevalent in each tribal community are needed

**Novel Pathogenesis and Treatments for Cardiovascular Disease** David C. Gaze, 2023-08-23 This book provides a comprehensive overview of cardiovascular diseases CVDs and associated conditions It is organized into three sections on Cardiovascular Pathophysiology Cardiovascular Diagnostics and Cardiovascular Treatments Chapters address such topics as the role of obesity in CVD cardiotoxicity cardio oncology CVD in different disease states modalities for detecting CVD interventional strategies to prevent or treat CVD and much more

**Sex Differences in Heart Disease** Bohuslav Ostadal, Naranjan S. Dhalla, 2020-11-15 Cardiovascular diseases are the leading cause of mortality in men and women Unfortunately women have traditionally been excluded from clinical trials and female animals have been used less or sex was not reported in basic research studies Until recently consideration of both sexes was not required in clinical and preclinical studies focusing on cardiovascular diseases However the number of clinical and experimental papers dealing with sex differences and heart disease significantly increases during the last years This trend is obviously the result of at least two facts the number of examples of different behavior of the male and female heart under physiological and pathological conditions is steadily increasing and there were controversial reports on the beneficial and adverse effect of hormonal replacement therapy Detailed molecular and cellular mechanisms of these differences are still unknown but one is clear already today sex differences are so important that they should be considered by the selection of optimum diagnostic and therapeutic procedures in clinical practice The book presents 16 manuscripts on sex differences of heart disease as developed by several investigators the volume is organized in four parts Part I dealing with sex differences in cardiac ischemic injury includes 5 chapters on experimental aspects of cardiac ischemia reperfusion injury the role of testosterone and clinical aspects of ischemic heart disease Part II is devoted to sex differences in heart failure and includes four chapters Discussion in this part of the book is centered around the sex differences in heart failure due to volume overload Part III of this volume includes four papers on risk factors of cardiovascular diseases namely hypertension and obesity and finally three chapters in part IV deal with sex differences of cardiac mitochondria under different pathological conditions We believe this book will be very useful for cardiovascular scientists graduate students postdoctoral fellows and other health professionals

**Obesity and**

**Associated Cardiovascular Disease Risk Factors** ,2009 Cardiovascular disease CVD is the leading cause of death among American Indian Alaska Native AIAN adults Obesity and other CVD risk factors such as smoking diabetes and hypertension are more prevalent in many AIAN populations compared to the overall US Osteoarthritis OA prevalence may be elevated as obesity is a risk factor for OA and arthritis is present in half of adults with diabetes or hypertension The purpose of this dissertation was to examine age and gender specific obesity prevalence in Southern California AIAN children and adults and assess the age and gender specific association of obesity and smoking with diabetes and hypertension and the association of these risk factors with OA in adults Visit data from 10 000 AIAN children and adults attending a Southern California AIAN health clinic system during 2002 2006 were used More than one third of AIAN children aged 6 17 years were obese with more obesity in boys than girls In adults obesity 54% smoking 17% diabetes 15% and hypertension 34% were very prevalent For women increasing obesity was associated with diabetes but for men only morbid obesity was associated with diabetes Smoking was associated with diabetes for some age groups Increasing overweight obesity and smoking were associated with hypertension among men and women aged 18 65 years Age adjusted OA prevalence was higher in women 16 5% than men 11 5% and prevalence increased with age Extreme levels of obesity were associated with higher OA prevalence in some age groups Hypertension was strongly associated with increased OA and current smoking tended to be associated with increased OA Diabetes was associated with more OA for women aged 35 54 years Southern California AIAN had higher obesity diabetes and hypertension prevalence than the general Southern California population and higher obesity prevalence compared to other AIAN communities In contrast OA prevalence may be less than overall US prevalence with no reliable comparisons to other AIAN communities available AIAN communities are understudied and their diversity makes it difficult to generalize health information from one location or tribe to another Comprehensive research and interventions tailored to cultural customs and the health problems most prevalent in each tribal community are needed

**Every Nurse's Guide to Cardiovascular Care** Sylvia Talkington,Ginger Raterink,1987 Perfect for quick review or reference this handbook covers cardiovascular health in general terms for all nursing professionals It supports the role of the nurse in promoting wellness and supplying skillful interventions The physical psychosocial and educational needs of the patient are emphasized Areas covered include cardiovascular anatomy and physiology principles techniques and formats for evaluating cardiovascular integrity relevant assessment criteria regarding alterations in cardiovascular system integrity cardiovascular care including both medical and nursing acute and chronic and special clinical situations

**The Origins and Consequences of Obesity** Derek Chadwick,Gail Cardew,1996-12-11 Presents recent research on genetic influences Covers both biological and social aspects of obesity the role of obesity as a predisposing factor to major diseases of the developing and developed world and its treatment

Nutritional and Metabolic Bases of Cardiovascular Disease Mario Mancini,Jose M. Ordovas,Gabrielle Riccardi,Paolo Rubba,Pasquale Strazzullo,2011-07-11 Extraordinary advances in the understanding of the links between

nutrition metabolism and cardiovascular disease have prompted a systematic reappraisal of knowledge in the field. As a result it is now imperative that clinicians who care for patients with CVD or its key risk factors have a solid understanding of the often complex interrelationships between cardiovascular health and chronic diseases such as diabetes and obesity. Written by a team of international thought leaders in cardiology, endocrinology, diabetology and nutritional science, this important new book examines and updates the role of obesity, hyperlipidemia, diabetes, hypertension, thrombosis and aging in atherogenesis. Describes in detail the scientific and clinical evidence of the etiopathogenesis of ischemic heart disease as well as of peripheral and cerebrovascular disease. Focuses on the 6 topics that will be of greatest interest to readers: 1. general nutrition 2. metabolic syndrome and diabetes 3. hyperlipidemia and atherosclerosis 4. hypertension and cerebrovascular disease 5. hemostasis and thrombosis 6. aging. Throughout the book, in clear and accessible text, contributors illuminate the close relationship between dietary habits, the metabolic processes of nutrients and their impact on the cardiovascular system, always with an eye on how the physician can use this information to implement better cardiovascular prevention and improve patient care. *Nutritional and Metabolic Bases of Cardiovascular Disease* is ideal for those who need to update their knowledge of the links between nutrition, metabolism and CVD, from trainees, clinicians and clinical investigators in cardiovascular medicine to endocrinologists, diabetologists and nutritionists.

**Health Implications of Regional Obesity** Per Björntorp, Ulf Smith, Peter Lönnroth, 1988. *Recent Advances in Obesity Research* Alan N. Howard, 1975. Includes the proceedings of the 1st International Congress on Obesity. **Texas Heart Institute Journal**, 1999. **Obesity** Per Björntorp, Bernard N. Brodoff, 1992. *The Nutrition Transition and Prevention of Diet-related Diseases in Asia and the Pacific* Barry M. Popkin, Soowon Kim, 2001. **Obesity and its Impact on Health** Methil Kannan Kutty, Asita Elengoe, 2021-02-23. This book summarizes the effects of obesity on health and its correlation with a wide range of debilitating and life-threatening conditions in humans. It discusses the possible pathological mechanisms that are involved in the development of obesity and highlights obesity-associated molecular mechanisms that contribute to reproductive dysfunctions in men and women. The book provides mechanistic insights on the role of obesity in cardiovascular and respiratory disorders and examines the role of the complementary molecular mechanism of the gut microbiota in the development of obesity. It also reviews the interaction between the metabolic system and immune cells in the pathogenesis of obesity-associated diseases. Lastly, it assesses the latest advances in nanomedicine as an emerging strategy for the treatment of obesity.

*Cardiac Nursing* Erika S. Sivarajan Froelicher, 2000. A classic in the field of cardiac nursing, this well-recognized text and clinical reference has earned the reputation as The Red Reference Book for nurses caring for patients who have cardiac disease. Revised and updated, this edition reflects the latest procedures and techniques in cardiac nursing. This book incorporates the nursing process and critical thinking strategies while also providing a foundation for the contents based on theory, anatomy and physiology. The liberal use of figures, tables and authoritative references makes this the ideal

text for graduate students and a reference for any nurse interested in cardiac nursing The authors of Cardiac Nursing Fourth Edition lay the groundwork for cardiovascular nursing in Part I by presenting the necessary information about cardiovascular anatomy and physiology Before the reader can fully comprehend the details of coronary heart disease it is essential to assimilate the information found in Part II Physiologic and Pathophysiologic Response Part III covers the assessment of coronary heart disease and addresses many noninvasive and invasive testing procedures currently available In Part IV various disease states and treatments are fully explored Finally Part V provides valuable information regarding the latest concepts in health promotion and disease prevention The straightforward style makes this an easily comprehensible text for both the experienced and novice nurse caring for patients who have or are at risk for developing cardiac disease A Brandon Hill Recommended Title Colorado Cardiovascular Health Colorado. Cardiovascular Health Coalition, Cardiovascular Health Program (Colo.), 2002

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