



Review

Social Isolation and Social Support Influence Health Service Utilisation and Survival after a Cardiovascular Disease Event: A Systematic Review

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Abstract: Both cardiovascular disease (CVD) and social health carry high health and economic burdens. We undertook a systematic review to investigate the association between social isolation, low social support, and loneliness with health service utilisation and survival after a CVD event among people living in Australia and New Zealand. Four electronic databases were systematically searched for the period before June 2020. Two reviewers undertook the title/abstract screen. One reviewer undertook a full-text screen and data extraction. A second author checked data extraction. Of 756 records, 25 papers met our inclusion criteria. Included studies recruited 10–12,821 participants, aged 18–98 years, and the majority were males. Greater social support was consistently associated with better outcomes on four of the five themes (discharge destination, outpatient rehabilitation attendance, rehospitalisation and survival outcomes; no papers assessed the length of inpatient stay). Positive social health was consistently associated with better discharge designation to higher independent living. As partner status and living status did not align with social isolation and social support findings in this review, we recommend they not be used as social health proxies. Our systematic review demonstrates that social health is considered in cardiac care decisions and plays a role in how healthcare is being delivered (i.e., outpatient, rehabilitation, or nursing home). This likely contributes to our finding that lower social support is associated with high-intensity healthcare services, lower outpatient rehabilitation attendance, greater rehospitalisation and poorer survival. Given our evidence, the first step to improve cardiac outcomes is acknowledging that social health is part of the decision-making process. Incorporating a formal assessment of social support into healthcare management plans will likely improve cardiac outcomes and survival. Further research is required to assess if support person/s need to engage in the risk reduction behaviours themselves for outpatient rehabilitation to be effective. Further synthesis of the impact of social isolation and loneliness on health service utilisation and survival after a CVD event is required.

Keywords: social isolation; social support; loneliness; cardiac rehabilitation; cardiovascular diseases; rehabilitation; interpersonal relations



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1. Introduction

Cardiovascular disease (CVD) is the leading cause of death globally [1] and carries a high economic burden, which is driven largely by productivity and direct healthcare costs [2,3]. It is essential to identify factors that influence health service utilisation and subsequent CVD events, to mitigate the significant health and economic burden of CVD. Poor social health is a modifiable risk factor for CVD [4] and mortality [5] and also carries a high health and economic burden. Social health refers to a person's ability to form fulfilling, meaningful relationships; a person's ability to adapt in social situations; and support from other people, institutions, and services. The concepts of social isolation, loneliness, and social support are often discussed in relation to social health. How these concepts are defined

Social Support And Cardiovascular Disease

Debra K. Moser, Barbara Riegel



Social Support And Cardiovascular Disease:

Social Support and Cardiovascular Disease Sally A. Shumaker, Susan M. Czajkowski, 2013-11-21 In this groundbreaking work distinguished contributors explore the myriad relationships between networks of social support and the development treatment and rehabilitation of individuals with cardiovascular disease Chapters span the range from conceptual to methodological issues and take into account gender environmental and cultural differences The book will provide a wealth of information for clinicians and students in the fields of behavioral medicine psychophysiology and cardiovascular disease

Heart Disease Gerdi Weidner, Mária Kopp, Margareta Kristenson, 2002 Annotation This book addresses one major question Why do men get more heart disease than women Recent global trends in heart disease show that traditional coronary risk factors such as elevated blood pressure and cholesterol are poor candidates in explaining the gender gap in heart disease Changes in these risk factors also cannot explain the recent cardiovascular disease epidemic among middle aged men in Eastern Europe This book will focus on environmental behavioral and psychosocial variables as well as new risk factors of a biological nature in an attempt to understand the gender gap in heart disease It combines perspectives from numerous disciplines such as demography epidemiology medicine sociology and psychology This book features the work of a distinguished group of international researchers appearing in Richard Stone's report on Stress the invisible hand in Eastern Europe's death rates Science vol 288 June 9 2000 pp 1732-33 It combines perspectives from numerous disciplines such as demography epidemiology medicine nutrition sociology and psychology to explore the environmental behavioral and psychosocial influences on men's greater susceptibility to heart disease

Behavioral Medicine Approaches to Cardiovascular Disease Prevention Kristina Orth-Gomér, Neil Schneiderman, Kristina Orth-Gomér, 2013-05-13 Cardiovascular disease CVD is the number one killer of men and women in industrialized countries In older age groups CVD is also the most important cause for hospitalization and in many countries it is the basis of early retirement from work Thus CVD is associated with enormous costs for care and loss of productivity as well as for disabilities pensions etc All this has motivated clinicians and scientists to develop and implement new methodologies and technologies to better care for patients who are hospitalized for heart disease Efforts to improve care in the acute phases of coronary heart disease CHD have been successful During the last decade the immediate mortality risk of a patient admitted to coronary care for a suspected myocardial infarction or other acute coronary syndrome has decreased to less than 10% Despite these achievements CVD continues to represent a major threat to the health of middle aged and elderly men and women This volume addresses myriad aspects of CHD prevention including biobehavioral and psychosocial factors behavioral epidemiology behavioral intervention models and policy The first section of the text provides an introduction to CVD prevention and behavioral medicine The second section introduces two theoretically different approaches to preventive action high risk and population based strategies The third section describes and discusses the important questions of how

behavioral sciences can be conceptually integrated into traditional medically based preventive efforts The fourth section presents both population and high risk behavioral intervention approaches In summary this volume examines the social environment and its potentials for preventive actions reviews the psychosocial and biobehavioral mechanisms involved in these effects and describes concrete and practical implementations of behavioral medicine knowledge as they have been applied to CHD prevention **NIH Guide for Grants and Contracts** National Institutes of Health (U.S.),1989

Handbook of Health Psychology Andrew Baum,Tracey A. Revenson,Jerome Singer,2012-04-27 Considered the most comprehensive handbook in the field this rich resource reviews the biological psychological and social factors that affect health health behavior and illness Many chapters review the latest theories and research while others illustrate how research is translated into clinical and community interventions to improve physical health and emotional well being Chapters examine health behavior processes within the social contexts in which we live including family social and cultural communities The handbook cuts across concepts behavior change populations women s health risk and protective factors obesity and diseases making it appropriate for a variety of readers from various fields Featuring contributions from the top researchers and rising stars in the field each author provides a theoretical foundation evaluates the empirical evidence and makes suggestions for future research clinical practice and or policy Novices to the field appreciate the accessibly written chapters while seasoned professionals appreciate the book s deep cutting edge coverage Significantly updated throughout the new edition reflects the latest approaches to health psychology today greater emphasis on translating research into practice and policy more on the socio cultural aspects of health including socioeconomic status gender race ethnicity sexual orientation and aging two new sections on risk and protective factors for disease and another on social and structural influences that affect health more on prevention interventions and treatment in the applications section an expansion of the bio psycho social model across several levels of analysis including cultural macro social and cellular factors The book opens with the field s central theories emphasizing the interaction of biological and social systems Part II reviews the mechanisms that help explain the link between health and behavior across diseases and populations The all new Part III focuses on variables that lead to the onset of major diseases or that are instrumental in promoting health Part IV also new to the second edition highlights social and structural influences on health The book concludes with applications of research to specific illnesses and medical conditions The Handbook serves as a text in graduate or upper level undergraduate courses in health psychology taught in psychology public health medical sociology medicine nursing and other social and allied health sciences Its cutting edge comprehensive coverage also appeals to researchers and practitioners in these fields **NIH Guide for Grants and Contracts** ,1989

Stress, Coping, and Cardiovascular Disease Philip McCabe,Neil Schneiderman,Tiffany M. Field,A. Rodney Wellens,2000-03 Focuses on the latest research on the relationship between bio behavioral and social factors and heart disease Examines ethnic differences psychosocial influences and proposed behavioral interventions Appeals to psychologists

physicians nurses et Improving Outcomes in Heart Failure Debra K. Moser, Barbara Riegel, 2001 Recent advances have changed the way heart failure is treated and have resulted in substantial improvements in heart failure management Improving Outcomes in Heart Failure addresses innovative ways of dealing with issues such as quality of life treatment compliance effective patient and family education and counseling nonpharmacologic therapy and new health care delivery models for improving the management of heart failure With an interdisciplinary approach this reference shows how heart failure outcomes and health care resource utilization can be improved significantly Written by the editors of the distinguished Journal of Cardiovascular Nursing Debra K Moser DNSc RN and Barbara Riegel DNSc RN CS FAAN are well known and nationally recognized experts in the field of cardiovascular nursing Moser and Riegel have received numerous prestigious awards and honors and have contributed to many renowned journals on a wide variety of cardiovascular topics

Cardiovascular Diseases: Advances in Research and Treatment: 2011 Edition, 2012-01-09 Cardiovascular Diseases Advances in Research and Treatment 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Cardiovascular Diseases The editors have built Cardiovascular Diseases Advances in Research and Treatment 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Cardiovascular Diseases in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Cardiovascular Diseases Advances in Research and Treatment 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> The Impact of Emotional Support in Managing Cardiovascular Diseases among Hispanic and Non-Hispanic Menopausal Women Aged 55 to 84 years Claudette Andrea, 2014-05-27 Contrary to the perception of women that heart disease is a disease that will only strike men heart disease was also the number one killer among women as of 2000 Beattie 2000 After the age of 50 nearly half of all women's deaths were due to cardiovascular disease CVD Beattie 2000 CVD has been the leading cause of death among women in the United States accounting for half a million deaths and 2.5 million hospitalizations annually Deaton 2000 Women who belong to ethnic minority groups have exhibited CVD risk factors to a greater extent than Caucasian women Juarbe 1998 Many researchers have found greater prevalence of high blood pressure physical inactivity excess weight and diabetes in African American women than in Caucasian women Fleury 2000 Even fewer researchers have examined CVD risk factors among Hispanic Americans who constituted 11% of the population in the United States in 2002 Eyler Vest Sanderson Wibur 2002 More researchers must conduct studies regarding the risks of heart disease in Hispanic women It is important to note that there is a deep connection between a person's emotions nervous system endocrine system and immune system Cohen 2004

There was a link demonstrated in the literature between the availability of emotional support and the direct health outcomes produced Eyer et al 2002 As a result this study was intended to investigate the impact of emotional support from friends family and medical professionals in helping to deal with CVD in Hispanic and non Hispanic menopausal women The chapter begins with the background of the problem problem statement and significance of the study The chapter will include the research questions that guided the study and a short definition of the main terms The theoretical framework for the study is also a part of the content with further discussion provided in the literature review These sections establish the practical goals for the study and illustrate the need for continued CVD management research in the field of health **Lifestyle in Heart**

Health and Disease Ronald Ross Watson, Sherma Zibadi, 2018-01-18 Lifestyle and Heart Health and Disease provides a comprehensive evaluation of lifestyle factors that modify heart function and structure It includes coverage of a wide range of lifestyle factors including physical activity alcohol tobacco drugs of abuse nutrition and psychosocial factors The book clearly presents the scientific evaluation of published research relating to general responses by scientists physicians and patients along with new research on the role of lifestyle in the prevention amelioration and causation of cardiac remodeling and disease Explains the pathogenic mechanisms of cardiovascular diseases and the targets of therapy Presents methods contained within the book that can be applied to the diagnosis of heart disease Contains a concise summary with

recommendations for actions and conclusions Provides a one stop shopping synopsis of key ideas associated with many aspects of lifestyle *Handbook of Stress Medicine and Health* Cary Cooper, 2004-10-28 Research now shows us that long term activation of the stress cycle can have a hazardous even lethal effect on the body increasing the risk of obesity heart disease depression cancer and other illnesses This new edition of an award winning book presents cutting edge research on the effects of stress Edited by one of the worlds authorit *The Meaning And Measurement Of Support* Hans O. Veiel, Urs

Baumann, 2014-01-09 Contains papers from an international symposium held at the Werner Reimers Foundation in Bad Homburg Germany in May 1990 They address the concern that social support research has fragmented into separate areas and that there is a lack of definition concerning social support *Handbook of Psychology: Health psychology* Irving B.

Weiner, Donald K. Freedheim, 2003 Includes established theories and cutting edge developments Presents the work of an international group of experts Presents the nature origin implications an future course of major unresolved issues in the area

Encyclopedia of Women's Health Sana Loue, Martha Sajatovic, 2004-07-15 Designated a Reference Reviews Top Ten Print Reference Source 2005 The Encyclopedia of Women s Health meets this challenge by bringing together an impressive array of experts on topics from reproductive issues to gastrointestinal illnesses This skilfully edited volume informed by current health issues and health care realities offers readers practical information historical aspects and future directions all meticulously researched and conveniently presented Key features include Accessible A to Z coverage including AIDS birth control hormone replacement therapy teen pregnancy sexual harassment violence body image access to health care and

more Entries spanning the medical psychological sociocultural spiritual and legal arenas Medical topics explored from both conventional and complementary perspectives Cross cultural data illustrate issues as they apply to minority women rural women the elderly and other underserved populations Special chapters on disparities in women s health and health care Historical overview of women in health as patients and as professionals Suggested readings and resource lists

Textbook of Cardiovascular Medicine Eric J. Topol, Robert M. Califf, 2007 The Topol Solution gives you a complete print and multimedia package consisting of Textbook of Cardiovascular Medicine Third Edition a DVD and access to a wealth of online resources Updated throughout by renowned international authorities Dr Topol s best selling text provides a comprehensive contemporary view of every area of cardiovascular medicine preventive cardiology clinical cardiology cardiovascular imaging electrophysiology and pacing invasive cardiology and surgical techniques heart failure and transplantation molecular cardiology and vascular biology and medicine The bound in DVD contains the full text plus heart sounds an image chart table bank and videos of procedures catheterization CT MRI echocardiography electrophysiology and pacing intravascular ultrasonography nuclear cardiology and surgery The Topol Solution Website includes the fully searchable text heart sounds and an image chart table bank downloadable to PowerPoint plus questions and answers from The Cleveland Clinic Cardiology Board Review a PDA download of cardiology drug facts quarterly articles from Critical Pathways in Cardiology and links to other cardiology Websites FEATURES Thoroughly updated Third Edition of best selling Textbook of Cardiovascular Medicine plus DVD and instant access to a wealth of online resources THE TEXT Renowned international contributors A comprehensive contemporary view of every area of cardiovascular medicine preventive cardiology clinical cardiology cardiovascular imaging electrophysiology and pacing invasive cardiology and surgical techniques heart failure and transplantation molecular cardiology and vascular biology and medicine Focus on clinical material particularly the application of clinical research to practice Each chapter includes comments on current controversies and pioneering insights into future developments THE BOUND IN DVD Full content of book Heart sounds a

[Measuring Psychosocial Variables in Epidemiologic Studies of Cardiovascular Disease](#) ,1985 *Health Psychology* Regan A. R. Gurung, 2018-09-07 Health Psychology Well Being in a Diverse World introduces students to the main topics and issues in health psychology through a unique perspective focused on diversity Using a conversational tone author Regan A R Gurung explores the key determinants of behavior such as family environment ethnicity and religion and connects concepts to personal experiences for students to gain a deeper understanding and appreciation of the material Extensively updated based on over 1 000 new articles cited and with a new chapter on research methods the Fourth Edition reflects the latest cutting edge research in the field to explain more thoroughly how context and culture are important predictors of healthy behavior

Health Psychology of Women Catherine Niven, Doug Carroll, 2013-12-16 First Published in 1993 Since health psychology is concerned with the universal values of life and death well being and suffering it might be expected that its researchers would be keen to examine both

male and female experiences of these phenomena In practice however health psychology has followed health research in adopting a largely male perspective both in its general approach and selection of topics Women are different from men not only in terms of anatomy but in terms of the socialization processes to which they have been exposed and the social and economic positions they occupy These differences have a significant impact on women s health predisposing them to some disorders and protecting them from others While it is true that male mortality exceeds female mortality from conception to old age women s survival has the price of increased mental and physical illness Men die but women suffer Despite a growing awareness of these differences there continues to be a distinct bias towards using male subjects for research and studying those diseases which affect more men than women The Health Psychology of Women is a response to this imbalance and a challenge to the attitude which explores the behavior of half the population in order to draw conclusions about the experience of the whole It is essential reading for students and researchers of psychology and health and health professionals in training and practice

Cardiac Nursing E-Book Debra K. Moser, Barbara Riegel, 2007-08-08 Cardiac Nursing A Companion to Braunwald s Heart Disease is the only comprehensive text available for cardiac nurses This brand new reference emphasizes both evidence based practice and hands on care in a high tech high touch approach that meets the high stakes needs of cardiac and critical care nurses What s more the book makes the material easily accessible by using clear language straightforward text and plenty of illustrations lists and tables This book is the third in a series of companion texts for Braunwald s Heart Disease and the first specifically for nurses Authored by the widely published well known co editors of The Journal of Cardiovascular Nursing two leaders in cardiac nursing Endorsed by the authors of Braunwald s Heart Disease including Eugene Braunwald the physician considered by many to be the father of modern cardiology Evidence based Practice boxes highlight research supported advances in knowledge and care practices Conundrum boxes helps readers hone their critical thinking skills by tackling tough questions for which there may be no easy answers Technology boxes keeps readers up to date with the latest technological advances Genetics boxes helps readers understand connections between genes and heart disease Pharmacology tables present important drug related information at a glance A guide to cardiac abbreviations and acronyms gives nurses quick access to essential information

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web the player agrees to attend the academy regularly and punctually behave with self discipline and give notice of and reason for any absence practice the techniques and skills taught by the academy and attempt to apply them in matches attend school regularly and punctually complete school assignments and behave at school as at the academy

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web 3 prohibited substance shall have the meaning set out in the fa rules the rules shall mean the statutes and regulations of fifa and uefa the fa rules the league rules the code of practice and the club rules strip shall mean all versions from time to time of the club s official football clothing including shirts shorts socks and or training kit track suits

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web from the sports academy into a more suitable elective 4 all students are required to have a consistent grade in all subjects for effort and behaviour if these are not met then there is a possibility that students will be removed from the sports

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