

Systematic Review

Sex Differences in Anxiety and Depression Conditions among Cancer Patients: A Systematic Review and Meta-Analysis

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Simple Summary: The present systematic review and meta-analysis aimed to assess how anxiety and depression conditions among cancer patients vary according to sex. This systematic review and meta-analysis was registered in PROSPERO with id no. CRD42024512553. The search strategy involved combining keywords using Boolean operators, including “Anxiety”, “Cancer”, and “Depression”, across several databases: British Nursing Database, CINAHL, Embase, Nursing & Allied Health Database, PubMed, Scopus, and Web of Science. The outcomes were evaluated using the Hospital Anxiety and Depression Scale (HADS). Data were collected from five studies, enrolling a total of 6317 cancer patients, of whom 2961 were females and 3356 males. Generally, females reported significant higher levels of depression scores than males and, conversely, males reported significantly greater levels of anxiety than females.

Abstract: (1) Background: Evidence suggested inconsistent results in anxiety and depression scores among female and male cancer patients. The present systematic review and meta-analysis aimed to assess how anxiety and depression conditions among cancer patients vary according to sex. (2) Methods: This systematic review and meta-analysis was conducted according to the Preferred Reporting Items for Systematic Reviews and Meta-analysis (PRISMA). The protocol was registered in PROSPERO with id no. CRD42024512553. The search strategy involved combining keywords using Boolean operators, including “Anxiety”, “Cancer”, and “Depression”, across several databases: Embase, PubMed, Scopus, and Web of Science. The outcomes were evaluated using the Hospital Anxiety and Depression Scale (HADS). (3) Results: Data were collected from five studies, enrolling a total of 6317 cancer patients, of whom 2961 were females and 3356 males. For each study, HADS-A and HADS-D scores were considered, also differentiating HADS scores according to cancer typology, and then three different meta-analyses were performed. Generally, females reported significantly higher levels of depression scores than males and, conversely, males reported significantly greater levels of anxiety than females. (4) Conclusions: Previous studies suggested higher rates of depression and anxiety conditions in females than in males, but the present data highlighted controversial findings, since males reported significantly higher levels of anxiety than females. In this scenario, the theoretical approach justified females being more open than males to expressing anxiety or depression conditions. It would be necessary for healthcare professionals to improve

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Sex Differences In Depression

**Jill M. Hooley, John M. Neale, Gerald C.
Davison**



Sex Differences In Depression:

Sex Differences in Depression Susan Nolen-Hoeksema, 1990 Women are twice as likely as men to experience protracted sadness apathy low self esteem and other symptoms of depression How can we account for this sex difference Several explanations have been proposed some dating back many years This book critically examines the evidence for each explanation in an attempt to discover what we do and do not know about sex differences in depression It is a landmark review of the historical theoretical and empirical approaches to sex differences in depression Nolen Hoeksema presents a fresh historical review makes theoretical criticisms and offers clear and challenging avenues for future research and practical applications

Sex Differences in Depression Joy Perkins Newmann, 1982 SEX DIFFERENCES IN DEPRESSION.. Martha Feldman Herman, 1979 *From Sex Differences in Neuroscience to a Neuroscience of Sex Differences: New Directions and Perspectives* Belinda Pletzer, 2015 This research topic aims to integrate scattered findings on sex differences in neuroscience into a broader theory of how the human brain is shaped by sex and sex hormones in order to cause the great variety of sex differences that are commonly observed It can be assumed that these differences didn't occur arbitrarily but that they rather determined and still determine evolutionary success of individuals and were shaped by the processes of natural and in particular sexual selection Therefore sex differences are not negligible and sex difference research cannot be discriminating against one sex or the other In fact a better understanding of the underlying causes of sex differences has great advantages for both men and women and society as a whole not only in terms of health care but in every aspect of life Gender equality can only work out if it is equally well understood for men and women what their individual resources and needs are Therefore it is of great importance to pave the way for identifying the underlying principles of structural and functional brain organization that cause men and women to act think and feel differently To this end it is of particular interest to identify possible similarities and interrelations between sex differences that did so far stand separately in order to investigate whether they share a common source To understand where a specific sex difference comes from and whether or not it is caused by the same principle as other sex differences it is necessary to explicitly link sex differences in behavior to their neuronal correlates and vice versa link sex differences in brain structure and function to their behavioral outcomes In particular a new understanding of male and female brain functioning may arise from findings on how sex hormones interact with various neurotransmitter systems In the past few years several findings demonstrated that women's behavior is influenced by the sex hormone fluctuations they experience naturally during their menstrual cycle to the extent that sex differences may only be detectable in one cycle phase but not another The study of menstrual cycle dependent effects gives important hints about which sex differences are activational and which are organizational Additionally it only recently came to attention that hormonal contraception may alter a woman's mood cognition and behavior as a consequence of changes in brain structure and function The underlying mechanisms are so poorly understood that it is

even hard to predict whether hormonal contraception will mask or amplify sex differences in a given task Since the oral hormonal contraceptive pill is meanwhile used by 100 million women worldwide and even by teenagers whose brains are not yet fully developed the question of how the synthetic steroids contained in hormonal contraceptives act on the brain is to be studied hand in hand with naturally occurring sex differences This topic summarizes the current state of the art in sex difference research and gives new perspectives in terms of hypothesis generation an methodology Both are necessary to gain a complete picture of what it is that makes a brain male or female and move towards a neuroscience of sex differences

Sex Differences in Depression Kathleen Anne Wilhelm,1990 *SEX DIFFERENCES IN DEPRESSION IN A LIFECOURSE PERSPECTIVE: THE ROLE OF PAID WORK, HOUSEWORK, FAMILY STRUCTURE AND UNION*

CHARACTERISTICS. PAMELA SMITH WEBSTER,1991 We assess several theoretical explanations for the sex difference in depression in light of these data Concerns about selection and suggestions for future research are also discussed **Sex**

Differences in Depression Susceptibility are Modulated by Circuit Function and Eph Receptor Signaling

Rachel-Karson Theriault,2021 Major depressive disorder MDD is a debilitating affective syndrome that disproportionately affects women Despite the known predominance of depression in women most studies that have investigated the underlying pathogenesis have not employed sex as a factor Consequently the mechanisms that contribute to the increased vulnerability of females to depression remain poorly understood Thus using the chronic unpredictable stress CUS model of depression we assessed sex differences in MDD pathology at the behavioural electrophysiological and molecular levels We first characterized the sex specific neural oscillatory patterns associated with stress response in brain regions implicated in depression prefrontal cortex PFC cingulate cortex Cg nucleus accumbens and hippocampus HIP Following stress exposure stress resilient females were characterized by increased HIP theta power and cortical gamma power whereas stress resilient males exhibited a widespread increase in high gamma coherence In stress susceptible animals we observed a pattern of increased delta and reduced theta power the changes were restricted to the Cg and HIP in males but occurred globally in females To elucidate the molecular mechanisms associated with these sex specific changes in circuit function a proteomics analysis was performed on the HIP of CUS exposed male and female rats We demonstrated that the majority of altered proteins induced by stress were distinct to each sex Unique to female animals was a significant change in EphA2 receptor expression and its associated downstream effector proteins Indeed these findings were confirmed in both the HIP and PFC via immunoblotting with a greater degree of upregulation observed in the PFC The female specific role of the EphA2 receptor in depression like behaviours was subsequently confirmed Following the infusion of a selective EphA2 receptor peptide ligand agonist into the PFC only female rats exhibited despair and anxiety like behaviours as well as alterations in low frequency band oscillations that paralleled those induced by CUS exposure Collectively our results demonstrate that the molecular mechanisms and neural oscillatory patterns that underly the pathology of depression are sex specific These

findings begin to inform the use of oscillatory patterns as predictive biomarkers of depression and treatment response as well as identify a potential female specific molecular target for future antidepressant pharmacotherapies

Sex Differences and Implications for Translational Neuroscience Research Institute of Medicine, Board on Health Sciences

Policy, Forum on Neuroscience and Nervous System Disorders, 2011-01-25 Biological differences between the sexes influence not only individual health but also public health biomedical research and health care The Institute of Medicine held a workshop March 8-9 2010 to discuss sex differences and their implications for translational neuroscience research which bridges the gap between scientific discovery and application

Biological Basis of Sex Differences in Psychopharmacology Jo C. Neill, Jayashri Kulkarni, 2011-07-20 Sex matters Are there differences between the sexes when it comes to brain function and the behaviours that result This volume attempts to answer this fundamental question If the answer is yes then this should impact upon our approach to treating mental illness in humans and to modelling it in animals as we look for aetiological and pharmacological solutions

Sex Differences Lee Ellis, Scott Hershberger, Evelyn Field, Scott Wersinger, Sergio Pellis, David Geary, Craig Palmer, Katherine Hoyenga, Amir Hetsroni, Kazmer Karadi, 2013-05-13 This volume is the first to aim at summarizing all of the scientific literature published so far regarding male female differences and similarities not only in behavior but also in basic biology physiology health perceptions emotions and attitudes Results from over 18 000 studies have been condensed into more than 1 900 tables with each table pertaining to a specific possible sex difference Even research pertaining to how men and women are perceived stereotyped as being different is covered Throughout this book's eleven years in preparation no exclusions were made in terms of subject areas cultures time periods or even species The book is accompanied by downloadable resources containing all 18 000 references cited in the book Sex Differences is a monumental resource for any researcher student or professional who requires an assessment of the weight of evidence that currently exists regarding any sex difference of interest It is also suitable as a text in graduate courses pertaining to gender or human sexuality

Sex and Gender Differences in Alzheimer's Disease Maria Teresa Ferretti, Annemarie Schumacher Dimech, Antonella Santucci, Chadha, 2021-07-23 Sex and Gender Differences in Alzheimer's Disease The Women's Brain Project offers for the first time a critical overview of the evidence documenting sex and gender differences in Alzheimer's disease neurobiology biomarkers clinical presentation treatment clinical trials and their outcomes and socioeconomic impact on both patients and caregivers This knowledge is crucial for clinical development digital health solutions as well as social and psychological support to Alzheimer's disease families in the frame of a precision medicine approach to Alzheimer's disease This book brings together up to date findings from a variety of experts covering basic neuroscience epidemiology diagnosis treatment clinical trials development socioeconomic factors and psychosocial support Alzheimer's disease the most common form of dementia remains an unmet medical need for the planet Wide interpersonal variability in disease onset presentation and biomarker profile make Alzheimer's a clinical challenge to neuroscientists

clinicians and drug developers alike resulting in huge management costs for health systems and society Not only do women represent the majority of Alzheimer s disease patients but they also represent two thirds of caregivers Understanding sex and gender differences in Alzheimer s disease will lead to novel insights into disease mechanisms and will be crucial for personalized disease management strategies and solutions involving both the patient and their family Endorsements Reviews There is a clear sex and gender gap in outcomes for brain health disorders like Alzheimer s disease with strikingly negative outcomes for women This understanding calls for a more systematic way of approaching this issue of inequality This book effectively highlights and frames inequalities in all areas across the translational spectrum from bench to bedside and from boardroom to policy and economics Closing the Brain Health Gap will help economies create recovery and prepare our systems for future global shocks Harris A Eyre MBBS PhD co lead Neuroscience inspired Policy Initiative OECD and PRODEO Institute Instructor in Brain Health Diplomacy Global Brain Health Institute UCSF and TCD Sex and Gender Differences in Alzheimer s disease is the most important title to emerge on Alzheimer s disease in recent years This comprehensive multidisciplinary book is a must read for anyone with a serious interest in dementia prevention diagnosis treatment care cure and research Precision medicine is the future of healthcare and this book represents an incredible and necessary resource to guide practice policy and research in light of the fact that Alzheimer s disease disproportionately affects women The combination of contributions from the most eminent experts and the most up to date research makes this an invaluable resource for clinicians care providers academics researchers and policy makers Given the complex nature of dementia and the multiple factors that influence risk and disease trajectory the scope of the book is both impressive and important covering sex differences in neurobiological processes sex and gender differences in clinical aspects and gender differences linked to socioeconomic factors relevant to Alzheimer s disease If you work in Alzheimer s disease or indeed other dementias then Sex and Gender Differences in Alzheimer s disease is a must have for your bookshelf Sabina Brennan PhD C Psychol PsSI National representative for Ireland on Alzheimer Disease International s Medical and Scientific Advisory Panel **The Male and Female Brain: Molecular Mechanisms of Sex Differences** Laura Musazzi, Jordan Marrocco, 2021-12-30

Readings in Abnormal Psychology Jill M. Hooley, John M. Neale, Gerald C. Davison, 1991-01-16 A collection of forty three primary sources ranging from contributions to scholarly journals to newspaper articles and first person accounts An indispensable supplement to any course in abnormal or clinical psychology Articles represent current research findings in psychopathology and indicate the direction of new research The editors provide introductory material for each article

Sex Differences in Depression Joy P. Newman, 1984 **Sex Differences in Neurology and Psychiatry** , 2020-09-30 Sex Differences in Neurology and Psychiatry Volume 175 addresses this important issue by viewing major neurological and psychiatric conditions through the lens of sexual dimorphism providing an entirely novel approach to understanding vulnerability factors as well as potential new treatment strategies in several common neuropsychiatric disorders The

handbook comprises four major sections 1 Introduction to sex differences in neuroanatomy and neurophysiology 2 Description of the impact of genetic epigenetic sex hormonal and other environmental effects on cerebral sex dimorphism 3 Review of sex differences in neurologic disorders and 4 Review of sex differences in psychiatric disorders Explores sex differences in human neuroanatomy and neurophysiology Offers a pathway toward a gender specific treatment of neurologic and psychiatric disorders Provides an overview of the genetics of sex hormones human brain structure and function as well as the epigenetics environment and social context *Sex Differences in Depression* Sandra Rouco,1992 Psychology of Gender Vicki S. Helgeson,2016-07-07 Noted for its fair and equal coverage of men and women this book reviews the research and issues surrounding gender from multiple perspectives including psychology sociology anthropology and public health with an emphasis on the interaction between biological and social theories The implications of social roles status and gender related traits on relationships and health that are central to students daily lives are emphasized throughout Students learn how to distinguish the similarities and differences between the sexes and the theories that explain the differences Methodological flaws that may impact the observance of sex differences are also examined Learning activities and pedagogical tools included in the text Do Gender exercises which provide an opportunity to test hypotheses and explore data Sidebars on special interest topics and numerous visuals that bring the studies to life Take Home Points that summarize key concepts in bulleted format Boldfaced key terms and definitions chapter summaries discussion questions and suggested readings which help students review the material New to the 5th Edition Expanded sections on cohabitation homosexuality online relationships social media influences single sex classrooms sex differences in math abilities and gender implications of divorce on health Expanded coverage of gender and parenting gender and the workplace gender and power and balancing work and family An expanded intersectional approach that highlights how gender is connected to social class race and ethnicity including more coverage of gender system justification theory Coverage of transgender issues including recent changes in the DSM guidelines Streamlined discussions to further engage students to think about gender issues A companion website at www.routledge.com/cw/Helgeson where instructors will find Power Point slides multiple choice quizzes and short answer questions with suggested answers for each chapter and students will find flashcards of key terms chapter outlines and links to related websites and further reading Divided into three parts each section builds on the previous one First gender and the development of gender roles across cultures are introduced Scientific methods used to study gender attitudes toward gender and the latest data and theories on sex differences in cognitive social and emotional domains are then introduced Theories of gender role development including evolutionary social learning social role and gender schema theories are reviewed along with the implications of gender on achievement Part one reviews the key information on the similarities and differences between the sexes and the theories that explain the differences which lay the foundation for the remainder of the book Part two examines the role of gender in relationships including communication styles and the impact

of these interactions on friendship and romantic relationships The third part examines the role of gender on physical and mental health The effects of marriage and parenting on health are reviewed including domestic abuse along with how gender affects the association between work and health This is an ideal text for upper level gender focused courses including the psychology of gender psychology of women or men gender issues and gender women s or men s studies taught in psychology women s studies gender studies sociology and anthropology Gender differences in depression: symptom patterns, risk factors, and etiology Michael Unrath,2010-08-12 Seminar paper from the year 2009 in the subject Medicine Pathology grade 1 3 Johannes Gutenberg University Mainz Institut f r Medizinische Biometrie Epidemiologie und Informatik course Epidemiology of chronic diseases language English abstract Marked gender differences with respect to the prevalence and symptoms of depression have been observed for years The aim of this selective review is to give a rather broad and comprehensive overview of the topic by looking at gender differences in depression from various angles including symptom patterns and measurement risk factors course of disease and etiology in both children and adults Important findings of the last two years are described and discussed including recommendations for further research and health care practice *The Psychology of Gender* Vicki S. Helgeson,2015-07-17 This book provides the nature of gender and the development of gender roles It focuses on women s and men s communication and interaction styles and provides an overview of sex differences in health and theories as to their origins *The Oxford Handbook of Stress and Mental Health* Kate L. Harkness,Elizabeth P. Hayden,2020 This handbook is currently in development with individual articles publishing online in advance of print publication At this time we cannot add information about unpublished articles in this handbook however the table of contents will continue to grow as additional articles pass through the review process and are added to the site Please note that the online publication date for this handbook is the date that the first article in the title was published online

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Sex Differences In Depression Introduction

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