

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 significantly 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

**Institute of Medicine, Board on Health
Sciences Policy, Forum on
Neuroscience and Nervous System
Disorders**

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 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** 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 **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 women 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 Susceptibility are Modulated by Circuit Function and Eph Receptor Signaling Rachel-Karson Theriault,2021 Major depressive disorder MDD is a debilitating affective syndrome that disproportionally 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, 2011-02-25 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 in Depression

Kathleen Anne Wilhelm, 1990

The book delves into Sex Differences In Depression. Sex Differences In Depression is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Sex Differences In Depression, encompassing both the fundamentals and more intricate discussions.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Sex Differences In Depression.

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