

Sexual Dysfunction 2

Sexual function in men and women with neurological disorders

Peter M. Rens, Clive Fowler, Corrado P. Maini

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This is the second in a Series of three articles about sexual dysfunction

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The advent of non-invasive functional brain imaging has clarified which regions of the brain are recruited during sexual arousal. Injuries to those regions, and to the spinal cord and peripheral nerves that link genitalia to limbic and cognitive centres, can profoundly influence sexual wellbeing. In epilepsy, expressions of hypersexuality and hyposexuality interact with the location of epileptogenic foci in the temporolimbic circuitry, and are tempered by the sexual effects of drug treatments. We outline the sexual consequences of epilepsy, stroke, multiple sclerosis, Parkinson's disease, and other common neurological disorders. Management of sexual dysfunction from both disease and treatment is discussed. Nerve-sparing techniques could mitigate the substantial sexual dysfunction in both men and women through surgical disruption of the autonomic nerves during radical pelvic surgery.

Introduction

Neurological disease frequently alters sexual response, and patients might regard their sexual loss to be its most devastating aspect.¹ We seek to explore the sexual consequences of demyelinating disorders, traumatic and vascular injuries to the brain, and the special relation between sexual function and treatments given to alleviate epilepsy and Parkinson's disease. We also explore the profound effects that might arise as a result of accidental trauma to the spinal cord or of surgical trauma to the peripheral nerves as a result of treatment for pelvic malignancies.

Neurological disorder can change the processing of sexual stimuli to preclude arousal, to decrease or increase desire, or to curtail genital engorgement.

Alternatively, engorgement and spontaneous orgasms can constitute epileptic phenomena. Interruption of the long spinal tracts between cortex and sacral cord or the pelvic autonomic nerves interferes with genital engorgement, erections, ejaculation, and climax. Neurological disease can also challenge the physical ability to embrace, stimulate, engage in intercourse, and maintain urinary and bowel continence during sexual activity.

Limitations of existing data on the incidence and nature of sexual dysfunction are outlined in the accompanying manuscript on sexual sequelae of general medical disorders.² We cite controlled prevalence studies and randomised placebo-controlled treatment trials, unless they are unavailable, in which case we refer to treatments based on open label studies or clinical experience and note the low level of evidence.

The neurophysiology and neuroanatomy of sexuality

Sex begins in the brain: a series of human experiments in the early 1960s measured intensely pleasurable sexual feelings in association with deep brain stimulation of so-called reward sites, such as the amygdala,

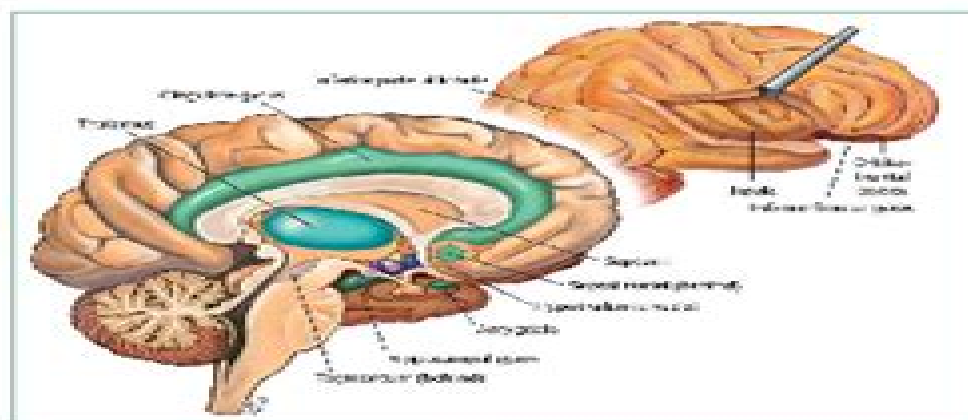


Figure 1: Regions of sexual function in the brain. The limbic system is shown in green. Parasellar regions include the posterior orbitofrontal cortex and much of the insula.

Search strategy

We searched the Cochrane Library, EMBASE, and MEDLINE through OVID and PubMed. We used the key words "sexual dysfunction", "erectile dysfunction", and "sexual disorders" in combination with "stroke", "head injury", "epilepsy", "Parkinson's disease", "spinal cord injury", "multiple sclerosis", and "peripheral neuropathies". We also searched for "autonomic nervous system" in combination with "rectal cancer", "cervical cancer", "bladder cancer", and "prostate cancer". We mainly selected publications in the past 5 years, but did not exclude commonly referenced and highly regarded older publications. We also searched the reference list of articles identified by this search strategy.

Sexual Function In Women With Neurological Disorders

**Charles Clarke, Robin Howard, Martin
Rossor, Simon Shorvon**



Sexual Function In Women With Neurological Disorders:

Sexual Function in Women with Neurological Disorders Birgitta Hulter, 1999 *Women's Sexual Function and Dysfunction* Irwin Goldstein, Cindy M. Meston, Susan Davis, Abdulmageed Traish, 2005-11-17 The first definitive text on female sexual dysfunction this major new book summarizes the current body of knowledge in the field traces the history of developments in the area and identifies work still needed in the future Reflecting a multidisciplinary approach to the subject the book details the methods and materials for ensuring the appropriate management of women with sexual health problems and concentrates on the presentation of evidence based data concerning the physiology pathophysiology diagnosis and treatment of sexual function and dysfunction in women The inclusion of difficult cases also enhances the use of text as a practical guide to all disciplines concerned with the field of female sexual dysfunction This important work will become a key resource for basic science researchers endocrinologists gynecologists psychologists urologists health care clinicians and anyone else interested in women s sexual health All proceeds are donated to the International Society for the Study of Women s Sexual Health Textbook of Female Sexual Function and Dysfunction Irwin Goldstein, Anita H. Clayton, Andrew T. Goldstein, Noel N. Kim, Sheryl A. Kingsberg, 2018-04-03 Dieses umfassende Fachbuch zur weiblichen Sexualfunktion und Sexualdysfunktion FSD verfolgt einen interdisziplinären biopsychosozialen Diagnose und Behandlungsansatz Das Textbook of Female Sexual Function and Dysfunction mit seinem interdisziplinären biopsychosozialen Ansatz gibt Hilfestellung für die sichere und wirkungsvolle Diagnose und Behandlung verschiedenster Störungen der Sexualfunktion Dieses Referenzwerk umfasst Beiträge internationaler Fachexperten und bildet die wissenschaftliche Grundlage für klinische Empfehlungen bei sexueller Störung Lustlosigkeit Erregungsstörungen Orgasmusstörungen und Schmerzen beim Geschlechtsverkehr Das Fachbuch erörtert vier Erkrankungsszenarien bei weiblicher sexueller Dysfunktion und wird von der International Society for the Study of Women s Sexual Health ISSWSH empfohlen Die Autoren decken ein Fülle von Themenbereichen ab u a hypoaktive Störung des sexuellen Lustempfindens psychologische Behandlung sexueller Störungen Anatomie und Physiologie sexueller Dysfunktionen und Schmerzzuständen und informiert über zukünftige Entwicklungen und Forschungen Darüber hinaus werden alle von der FDA zugelassenen Medikationen bei sexueller Dysfunktion vorgestellt ebenso Off Label Behandlungsansätze Das einzige Fachbuch zu sexuellen Dysfunktionen bei Frauen vor dem Hintergrund neuester von der FDA zugelassener Medikamente Präsentiert den einzigartigen biopsychosozialen Ansatz eines interdisziplinären Teams aus Ärzten Psychologen Physiotherapeuten und weiterer Experten aus dem Fachgebiet Ein umfassendes Referenzwerk eines der weltweit führenden Fachexperten Irwin Goldstein ist Gründer der ISSWSH Mitgearbeitet haben ebenfalls drei frühere Präsidenten sowie ein designierter Präsident der Gesellschaft Dieses Referenzwerk richtet sich an Experten die sich mit der Sexualgesundheit von Frauen beschäftigen und stellt eine wertvolle Handreichung für eine sichere und wirkungsvolle Diagnose und Behandlung dar *Medical and Psychosocial Aspects of Chronic Illness and Disability* Donna R. Falvo, 2005 A

comprehensive text that provides easy to understand explanations of medical aspects of common chronic illnesses and disabilities

Female Sexual Function and Dysfunction Elisabetta Costantini, Donata Villari, Maria Teresa Filocamo, 2017-06-19 This book discusses all aspects of sexuality in women and in particular explores sexual function and dysfunction in a variety of settings including the different stages of life and a wide range of major diseases and local conditions The aim is to refocus attention on the needs and sexual realities of women providing a fresh point of view that will assist gynecologists sexual medicine physicians and urologists in delivery of high quality care and help women themselves to understand and address sexual problems relating to desire arousal orgasm and sexual pain Psychological aspects of female sexuality and the impacts of the aging process pregnancy and childbirth are carefully examined Extensive consideration is then given to the effects on sexual function of such conditions as cardiovascular disease cancer diabetes neurological disease endometriosis pelvic organ prolapse urinary incontinence reproductive disorders sexual abuse and drug abuse Issues of sexual identity and female dysmorphophobias are also considered The authors are all experts in the field and have a deep understanding of the complexities of female sexuality

Sexual Dysfunction: Beyond the Brain-Body Connection R. Balon, 2011-10-11 During the last years human sexuality has been the focus of interest and study by various disciplines In this volume a multidisciplinary team of international experts discuss contemporary issues of human sexuality from updates on diagnosis to the management of various sexual dysfunctions Reviews of the management of several female sexual dysfunctions the impact of cancer on sexual functioning the impact of trauma on sexual desire and function as well as the newest trends in sex therapy androgen deprivation treatment of sexual behavior and autogynephilia are discussed in detail Further the complex interplay between the field of human sexuality and the Internet psychological and cultural aspects of infertility are reviewed A large amount of clinical material on topics rarely covered in other volumes will prove invaluable reading to clinicians from various disciplines such as psychiatry psychology urology gynecology sexology and sex therapy

Male Sexual Function John J. Mulcahy, 2007-11-16 The first edition of *Male Sexual Function A Guide to Clinical Management* was published in 2001 Since that time two new oral medications for erectile dysfunction ED Vardenafil Levitra and Tadalafil Cialis have been introduced Links between ED and lower urinary tract symptoms have been postulated advances in the basic science of erectile physiology have occurred and the appreciation of ED as a form of endothelial dysfunction and a harbinger of other more potentially lethal forms of vascular disease has become more widespread In some instances third party payers have reduced or eliminated coverage for ED treatments in an attempt to cut costs They have classified sexual activity as recreational lifestyle or not medically necessary but have failed to appreciate the negative consequences of ED such as depression with all of its ramifications *Male Sexual Function A Guide to Clinical Management Second Edition* is a comprehensive overview of the field of male sexual function and includes a chapter on female sexual dysfunction an emerging field with a very high incidence in the population and an ever growing following

Male Sexual

Dysfunction Suks Minhas, John Mulhall, 2016-11-30 Sexual dysfunction affects men of all ages and incidence rates are expected to double by 2025 resulting in a major health burden Though normal sexual function is an important aspect of health and well being sadly this common condition still carries an associated stigma As a result affected men are often reluctant to approach their doctor and instead may live for many years with sexual dysfunction often to the detriment of their personal lives Male Sexual Dysfunction A Clinical Guide covers all the common problems encountered by the clinician in this rapidly expanding and developing field With full color throughout this easy to read guide provides a comprehensive and systematic approach to patient management Packed with key features every chapter will contain flow diagrams and algorithms key points clinical pearls what to avoid boxes and numerous tables graphs and photographs This book provides Comprehensive focus on the core clinical areas of physiology pharmacology investigation diagnosis management and surgical options Coverage of all treatment pathways including psychological pharmacologic and surgical A straightforward logical approach to clinical management An experienced and international editor and contributor team Expertly written this book is the perfect resource for urologists and general practitioners with an interest in this highly topical area as well as those about to undergo their urology trainee examinations *Pelvic Organ Dysfunction in Neurological Disease* Clare J. Fowler, Jalesh N. Panicker, Anton Emmanuel, 2010-11-04 Pelvic Organ Dysfunction in Neurological Disease describes the neurological control of human bladder bowel and sexual function and then details the dysfunctions which may arise as a consequence of various neurological diseases Easy to read the book will be of value to any healthcare professional managing patients in whom pelvic organ functions have been compromised by neurological disease The book provides a structured approach to present day understanding of the neurological control of pelvic organs and the investigation and management of each type of organ dysfunction A unique feature of this book is that it addresses the impact of specific neurological disorders on all three functions The authors have all been associated with the Department of Uro Neurology at the National Hospital for Neurology and Neurosurgery London since it was established 20 years ago This book is a timely review of their accumulated knowledge and the latest literature *Neurological Disorders* Thomas Brandt, 2003-01-03 This single volume reference covers the natural course treatment and management of all neurological diseases affecting the brain spinal cord nerves and muscles This comprehensive text reference seeks to assist physicians with treatment by providing an easy to use compendium covering the treatment and management of all neurological diseases along with details on the natural course of these diseases Organized for ease of use and quick reference each chapter presents a neurological disorder or key symptoms and systematically discusses the clinical syndrome and differential diagnosis natural course principles of therapy and practical management of each Covers wide range of neurological conditions and potential treatments including the evidence for and against each treatment Describes the spontaneous course of neurological diseases along with discussion of the management of different stages and variants of a disorder Presents special situations and exceptional cases in which alternative therapies

should be considered **Sexual Dysfunction** John P. Wincze, Risa B. Weisberg, 2015-05-18 Highly regarded as a course text and practitioner resource this book presents concise intervention guidelines for the most frequently encountered sexual dysfunctions in women and men Following a consistent format chapters on each clinical problem cover its description clinical presentation prevalence etiology and biological and psychosocial factors Illustrative case examples of diverse individuals and couples are included The authors provide a state of the art framework for conducting comprehensive assessments weaving multiple data sources into a coherent case formulation and planning effective treatment that integrates medical and psychosocial strategies New to This Edition Incorporates major advances in both sexual medicine and psychotherapy Extensively rewritten with all new case material throughout New chapter organization aligned with DSM 5 Expanded coverage of biopsychosocial assessment Discusses pseudoscientific and sham treatments *Neurology of Sexual and Bladder Disorders* David B. Vodusek, Francois Boller, 2015-05-21 The neurology of sex and bladder disorders requires specialized knowledge and represents a challenge for clinical neurologists focused on the neurological condition Sex and bladder disorders are often related to more general neurological disorders like Parkinson s disease and multiple sclerosis and often the sex and bladder disorders are passed to specialists in urology *Neurology of Sexual and Bladder Disorders* Handbook of Clinical Neurology is a focused yet comprehensive overview that provides complete tutorial reference to the science diagnosis and treatment of sex and bladder disorders from a neurologic perspective Comprehensive coverage of the neurology of sex and bladder disorders Details the latest techniques for the study diagnosis and treatment of sex and bladder dysfunction from a neurological perspective A focused reference for clinical practitioners and neurology research communities **Sexual Dysfunction** R. Balon, T. N. Wise, 2008-04-24 The area of human sexuality and sexual dysfunction in particular has been undergoing enormous developments and advances This volume written by a team of international experts in the area of sexology is an authoritative review of the latest developments in this field Areas such as evaluation of sexual dysfunction impact of psychotropic medications mental and physical illness and substance abuse on sexual functioning are covered in a highly informative manner In addition several sexual dysfunctions namely hypoactive sexual desire disorder male erectile disorder and premature ejaculation are reviewed A chapter on the developments in imaging of sexual dysfunction an area that is undergoing rapid expansion is also included This publication filled with a variety of clinically essential information provides psychiatrists psychologists sex therapists urologists gynecologists both clinically and research oriented with the latest developments in the area of sexual dysfunction *Sexual Dysfunction in Parkinson's Disease* , 2022-04-07 Sexual Dysfunction in Parkinson s Disease Volume 182 the latest release in the International Review of Neurobiology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of trending and important topics including Prevalence clinical presentations and impact on relationship Pathophysiology Scales for assessing sexual dysfunction in Parkinson s disease Diagnostic work up Laboratory and biomarkers Management

strategies ICD DDS and sex dysfunction Non motor fluctuations and sex dysfunction Exploring Sexual Dysfunction in Care Homes and The impact of non motor symptoms burden on sexual functions Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the International Review of Neurobiology series Updated release includes the latest information regarding Sexual Dysfunction in Parkinson s Disease Neurology Charles Clarke,Robin Howard,Martin Rossor,Simon Shorvon,2016-09-06 Neurology A Queen Square Textbook second edition is a fully revised and updated companion that demonstrates the rapid pace of advancement within clinical neurology and applied neuroscience A comprehensive and practical overview of current developments within clinical neurology synthesising clinical neurology with translational research Expertly edited and written by neurologists neuroscientists and neurosurgeons working at Queen Square advised by an distinguished International Editor team to present a global perspective Introductory chapters summarise the basic sciences underpinning the practice of clinical neurology including genetics channelopathies immunology neurophysiology and neuropathology All chapters fully revised and updated to reflect the increasing role of neurologists in acute care Includes new contributions concerning major developments in the care of stroke epilepsy dementia Parkinson s disease multiple sclerosis neuromuscular disease headache infections spinal disease cranial nerve disease neuropsychiatry neurogenetics neuro oncology uroneurology neuro otology neuro ophthalmology pain medicine sleep medicine metabolic disease drugs and toxins autonomic disease systemic disease and neurorehabilitationfor dementia epilepsy headaches neuro genetics and many more *Evidence-Based Physical Therapy for the Pelvic Floor - E-Book* Kari Bø,Bary Berghmans,Siv Mørkved,Marijke Van Kampen,2023-11-24 Written by leading experts in this field Evidence Based Physical Therapy for the Pelvic Floor provides physiotherapists and other professionals with knowledge and confidence to bring the latest evidence based approaches and treatment strategies for addressing pelvic floor dysfunction to their practice Fully updated and with a wealth of new information this edition includes sections on devices and apps gynaecological cancer sexual dysfunction fistula clinical use of EMG anal incontinence and pain as well as a discussion of sexualized violence by Nobel Peace Prize winner Denis Mugwege and his team New and fully updated contents new authors and new chapters provide contemporary evidence Innovative practice guidelines supported by a sound evidence base Colour illustrations of pelvic floor anatomy and related neuroanatomy neurophysiology MRIs and ultrasounds showing normal and dysfunctional pelvic floor Key summaries for easy navigation Full colour throughout Neurology and General Medicine Michael Jeffrey Aminoff,2008-01-01 Better understand your patients complete medical profile and provide the best possible care This one of a kind reference provides a practical look at neurological disease and how it affects and is affected by other disease It helps neurologists manage patients with co existing medical conditions and helps internists understand and treat the neurological manifestations of patients primary diseases A new emphasis on diagnosis and management including advances in pharmacology genetic based therapies and new imaging techniques makes this 4th Edition more clinically valuable than ever

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Clinical Manual of Sexual Disorders Richard Balon, Robert Taylor Segraves, 2009-08-06 Sexuality is an integral part of gender identity self image and overall well being Sexual dysfunctions present in all cultures and ethnicities around the world Sexual problems have an especially high prevalence among patients with psychiatric syndromes yet in recent years the field of psychiatry has shifted away from the treatment of sexual disorders Clinical Manual of Sexual Disorders is the first comprehensive text in decades to address the management and treatment of sexual dysfunctions and disorders Using a conceptual model that incorporates biological psychological and cultural interventions as its guiding principle the book explores and evaluates the epidemiology of sexual disorders and paraphilias sexual dysfunctions with comorbid psychiatric disorders sexual problems associated with various medications and sexual disorders in specific patient populations Written by 25 contributing clinical specialists from around the world the text combines conceptual shifts within the field of human sexuality with the latest research findings into a practical three part volume The first four chapters cover general areas relevant to the clinical understanding of human sexuality and sexual dysfunctions within the frame of psychiatry The second part of the book outlines the major sexual dysfunctions including male erectile disorder female arousal disorder premature ejaculation and paraphilias And the final chapters address the management of sexual issues in two unique patient populations that are often neglected in other textbooks children and adolescents and older adults The book includes several unique features to further enhance learner retention Tables charts figures and illustrations to enhance the reading material Evaluations questionnaires and other patient materials Take away points on key clinical issues at the end of each chapter Case examples from the authors own practices References for further reading Restoration of sexual function can improve the quality of life for many individuals with and without psychiatric disorders making recognition and treatment of sexual problems of utmost importance to any general psychiatric practice As the only text of its kind Clinical Manual of Sexual Disorders provides a concise clinically oriented biopsychosocial guide to the management and treatment of sexual dysfunction that is appropriate for all psychiatric

clinical and educational settings **Aminoff's Neurology and General Medicine** Michael J. Aminoff, S. Andrew Josephson, 2014-02-18 Aminoff's Neurology and General Medicine is the standard and classic reference providing comprehensive coverage of the relationship between neurologic practice and general medicine As neurologists are asked to consult on general medical conditions this reference provides an authoritative tool linking general medical conditions to specific neurologic issues and disorders This is also a valuable tool for the general practitioner seeking to understand the neurologic aspects of their medical practice Completely revised with new chapters covering metastatic disease bladder disease psychogenic disorders dementia and pre operative and post operative care of patients with neurologic disorders this new edition will again be the go to reference for both neurologists and general practitioners The standard authoritative reference detailing the relationship between neurology and general medicine 100% revised and updated with several new chapters Well illustrated with most illustrations in full color *Bradley's Neurology in Clinical Practice E-Book* Robert B. Daroff, Joseph Jankovic, John C Mazziotta, Scott L Pomeroy, 2015-10-25 Comprehensive easy to read and clinically relevant Bradley's Neurology in Clinical Practice provides the most up to date information presented by a veritable Who's Who of clinical neuroscience Its unique organization allows users to access content both by presenting symptom sign and by specific disease entities mirroring the way neurologists practice A practical straightforward style templated organization evidence based references and robust interactive content combine to make this an ideal dynamic resource for both practicing neurologists and trainees Authoritative up to date guidance from Drs Daroff Jankovic Mazziotta and Pomeroy along with more than 150 expert contributors equips you to effectively diagnose and manage the full range of neurological disorders Easy searches through an intuitive organization by both symptom and grouping of diseases mirrors the way you practice The latest advances in clinical neurogenetics brain perfusion techniques for cerebrovascular disease the relationship between neurotrauma and neurodegenerative disease management strategies for levodopa related complications in movement disorders progressive neuropsychiatric disorders arising from autoimmune encephalitis and more keep you at the forefront of your field Reorganized table of contents which includes new chapters on Brain Death Vegetative and Minimally Conscious States Deep Brain Stimulation Sexual Dysfunction in Degenerative and Spinal Cord Disorders Sports and Performance Concussion Effects of Drug Abuse on the Nervous System and Mechanisms of Neurodegenerative Disorders Regular online updates reflect the latest information on the diagnosis and treatment of neurologic diseases based on the latest recommendations and methodologies Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures references and videos from the book on a variety of devices

Reviewing **Sexual Function In Women With Neurological Disorders**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Sexual Function In Women With Neurological Disorders**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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