

Obsessive–compulsive disorder: an integrative genetic and neurobiological perspective

David L. Pauls^{1–3}, Amitai Abramovitch^{1,2}, Scott L. Rauch^{1,2,4} and Daniel A. Geller^{1,2}

Abstract | Obsessive–compulsive disorder (OCD) is characterized by repetitive thoughts and behaviours that are experienced as unwanted. Family and twin studies have demonstrated that OCD is a multifactorial familial condition that involves both polygenic and environmental risk factors. Neuroimaging studies have implicated the cortico–striato–thalamo–cortical circuit in the pathophysiology of the disorder, which is supported by the observation of specific neuropsychological impairments in patients with OCD, mainly in executive functions. Genetic studies indicate that genes affecting the serotonergic, dopaminergic and glutamatergic systems, and the interaction between them, play a crucial part in the functioning of this circuit. Environmental factors such as adverse perinatal events, psychological trauma and neurological trauma may modify the expression of risk genes and, hence, trigger the manifestation of obsessive–compulsive behaviours.

Obsessive–compulsive disorder (OCD)¹ is a relatively common, frequently debilitating neuropsychiatric disorder that affects approximately 2% of the population in the United States². It is characterized by repetitive thoughts (obsessions) and repetitive behaviours (compulsions) that are experienced as unwanted (FIG. 1). OCD is a clinically heterogeneous disorder with a wide range of symptomatic expression. The age at onset ranges from very early childhood into adulthood. Indeed, 30–50% of individuals with OCD have onset in childhood³, often before 10 years of age. It is possible that childhood-onset OCD is a distinct neurodevelopmental form of the disorder^{4,5}.

Empirically validated treatments include serotonergic antidepressants (selective serotonin-reuptake inhibitors (SSRIs)) and cognitive behavioural therapy that involves exposure and response prevention. The effect size is modest for drug treatment⁶ and somewhat higher for cognitive behavioural therapy⁷, and there are additive effects for combined treatment. The 'serotonergic hypothesis' (REF. 8), which proposes that OCD is primarily a disorder of the serotonin system and which is based on the observed benefit of serotonergic antidepressants on OCD severity, has received mixed scientific support. However, there is evidence suggesting a role for dopaminergic mechanisms in the manifestation of OCD. For example, results from human and animal studies

using pharmacological manipulations, as well as from functional imaging and positron emission tomography (PET), all provide evidence that dopamine is important for the manifestation of OCD⁹. Furthermore, as discussed in later sections, there is growing evidence that glutamate and GABA also have a role in the expression of OCD. Clearly, further research is needed to more fully understand the aetiology, pathogenesis and pathophysiology of OCD in its various forms. This Review summarizes recent findings regarding the heterogeneity, inheritance and neural basis of OCD and proposes a model for possible neuroepigenetic mechanisms for the disorder.

Phenotypic heterogeneity

Obsessions and compulsions encompass the entire range of human thought and behaviour, and are unique to the affected individual. Contamination concerns and consequent washing rituals are well known examples of obsessions and compulsions, respectively, but the clinical expression of obsessions and compulsions is broad. For example, a person may develop contamination fears or disgust (a powerful affect that drives many OCD behaviours) in response to an abhorrent event, place or personal experience that has little to do with germs or dirt. So-called transformation obsessions occur when a person develops a fear of acquiring a certain

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Obsessive Compulsive Disorder A Cognitive Neuropsychological Perspective

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Obsessive Compulsive Disorder A Cognitive Neuropsychological Perspective:

Obsessive Compulsive Disorder Frank Tallis, 1995-11-09 A comprehensive and up to date review of obsessionality which integrates a full range of research findings The main aim of the book is to consider cognition in the broadest sense within the context of OCD Chapters cover the historical development of OCD and its biological data assessment phenomenology including emphasis on cognitive writings which link the observations of Freud with contemporary theories neuropsychology cognitive behavioral treatment and cognition and brain state

Obsessive Compulsive Disorder Frank Tallis, 1995-01-01 He s deaf to your protests stubborn and cruel And totally blind to your pain He ll disguise himself as a habit Go On Do It Again and Again This characterisation of OCD by a sufferer vividly describes the impact of this destructive distressing and sometimes disabling mental disorder In the mid 1980s major studies and surveys of mental health disorder reported that OCD was many times more common than previously believed and in the USA ranked fourth after phobias substance abuse and depression Over the last ten years there has been a surge of interest in and recognition of OCD together with a parallel growth of research and knowledge in clinical aspects of cognition and the neuropsychological aspects of OCD This important book reviews the nature and incidence of OCD in the light of the related research on cognitive processes and cognitive neuropsychology and discusses the treatment of OCD with special reference to behavioural and cognitive therapies Practitioners in clinical psychology psychiatry and therapy will be able to update their practice in relation to the experimental and clinical research reviewed in this book Students and teachers of psychopathology will find in this book a model for how experimental cognitive psychology can build bridges between biological psychological and phenomenological accounts of mental disorder This book appears in The Wiley Series in Clinical Psychology Series Editor J Mark G Williams University of Wales Bangor UK

Obsessive-Compulsive Disorder Richard P. Swinson, Martin M. Antony, S. Rachman, Margaret A. Richter, 2001-10-31 Drawing upon extensive interviews and assessments of school age children who have lost a parent to death this book offers a richly textured portrait of the mourning process in children The volume presents major findings from the Harvard Child Bereavement Study and places them in the context of previous research shedding new light on both the wide range of normal variation in childrens experiences of grief and the factors that put bereaved children at risk The book also compares parentally bereaved children with those who have suffered loss of a sibling to death or of a parent through divorce exploring similarities and differences in these experiences of loss A concluding section explores the clinical implications of the findings and includes a review of intervention models and activities as well as a screening instrument designed to help identify high risk bereaved children

Obsessive-Compulsive Disorder Ross G. Menzies, Padmal de Silva, 2003-07-11 Obsessive Compulsive Disorders OCDs involve habitual repetitive behaviours that can be bizarre disruptive and eventually disabling They can destroy lives and relationships and are one of the most common of the emotional disorders The last five years have seen substantive advances in the state of knowledge of all aspects of OCD

and this volume brings together many of the recognised leaders in the field to provide a state of the art account of theory assessment and practice in treatment A comprehensive text for trainees and practitioners Presents current theories as well as treatment focusing mainly on Cognitive Therapy methods of treatment Covers the assessment nature and treatment of a wide range of sub types of OCD Written by an international team of experts Part of the renowned Wiley Series in Clinical Psychology

Essential Papers on Obsessive-Compulsive Disorder Dan J. Stein, Michael H. Stone, 1997-02-01 Recent advances in the diagnosis and treatment of obsessive compulsive disorder have come from breakthroughs in neurobiologic and cognitive behavioral studies Essential Papers on Obsessive Compulsive Disorder represents the most significant thinkers and the various strands of thought on obsessive compulsive disorder Divided into three sections focusing on classical psychoanalysis psychological research and neuro psychiatric approaches this definitive volume includes contributions by the most experienced and renowned experts on the subject Contributors include Sigmund Freud Karl Abraham Ernest Jones Anna Freud Paul E Sifneos Leonard Salzman Joseph Sandler and Anandi Hazari Lewis L Judd Heinz Hartmann Stanley Rachman Ray Hodgson and Isaac M Marks Paul M Salkovskis Paul Schilder Steven P Wise and Judith L Rapoport Joseph Zohar and Thomas R Insel Michael A Jenike Susan E Swedo Henrietta Leonard Lewis R Baxter Jeffrey M Schwartz Kenneth S Bergman Dan Stein and Eric Hollander

Understanding and Treating Obsessive-Compulsive Disorder Jonathan S. Abramowitz, 2006-04-21 Among the most prevalent and personally devastating psychological disorders the development of a cognitive approach to obsessive compulsive disorder OCD has transformed our understanding and treatment of it In this highly practical and accessible book Jonathan Abramowitz presents a model of OCD grounded in the most up to date research that incorporates both cognitive and behavioral processes He then offers a step by step guide to psychological treatment that integrates psychoeducation cognitive techniques and behavioral therapy exposure and response prevention Unlike other manuals for the treatment of OCD this book teaches the reader how to tailor the choice of techniques and delivery modes for individuals presenting with a wide range of specific OCD symptoms such as contamination fears and cleaning rituals fears of harm and compulsive checking symmetry and ordering and severe obsessions with mental rituals The techniques are illustrated with numerous case examples clinical forms and handouts are provided for use with patients A final chapter suggests strategies for overcoming common obstacles in treatment

The Handbook of Adult Clinical Psychology Alan Carr, Muireann McNulty, 2014-03-05 The Handbook of Adult Clinical Psychology provides a reliable source of guidance on the full range of issues associated with conducting evidence based practice in adult mental health Topics covered include general frameworks for practice classification and epidemiology CBT psychodynamic systemic and bio medical models general assessment procedures mood problems depression bipolar disorder and managing suicide risk anxiety problems generalized anxiety disorder panic disorder obsessive compulsive disorder PTSD and social phobia physical health problems somatoform disorders chronic pain adjustment to cancer eating disorders and substance abuse other psychological difficulties

schizophrenia borderline personality disorder psychological problems in older adults anger management and depersonalization disorder Each chapter includes useful skill building exercises summaries of the issues covered suggested further reading lists for both psychologists and patients and case material This practical Handbook will prove invaluable to clinical psychologists in training helping them to build the necessary skills to complete a clinical placement in the field of adult mental health The Handbook of Adult Clinical Psychology is one of a set of three handbooks published by Routledge which includes The Handbook of Child and Adolescent Clinical Psychology by Alan Carr and The Handbook of Intellectual Disability and Clinical Psychology Practice Edited by Alan Carr Gary O Reilly Patricia Noonan Walsh and John McEvoy

The Volitional Brain Benjamin Libet,Anthony Freeman,Keith Sutherland,2000-06-08 It is widely accepted in science that the universe is a closed deterministic system in which everything can ultimately be explained by purely physical causation And yet we all experience ourselves as having the freedom to choose between alternatives presented to us we are in the driving seat The puzzling status of volition is explored in this issue by a distinguished body of scientists and philosophers

Obsessive-compulsive Disorder Christopher Pittenger,2017 Obsessive compulsive disorder OCD affects one person in 40 and can cause great suffering This volume provides the first comprehensive summary of our understanding of this enigmatic condition summarizing current work ranging from genetics and neurobiology through cognitive psychology treatment personal experiences and societal implications

Handbook of Psychodynamic Approaches to Psychopathology Patrick Luyten,Linda C. Mayes,Peter Fonagy,Mary Target,Sidney J. Blatt,2015-08-31 Authoritative and comprehensive this volume provides a contemporary psychodynamic perspective on frequently encountered psychological disorders in adults children and adolescents Leading international authorities review the growing evidence base for psychoanalytic theories and therapeutic models Chapters examine the etiology and psychological mechanisms of each disorder and thoroughly describe effective treatment strategies Highly accessible the book is richly illustrated with clinical case material It demonstrates ways in which psychodynamic theory and therapy are enhanced by integrating ideas and findings from neuroscience social and personality psychology cognitive behavioral therapy and other fields Winner Goethe Award for Psychoanalytic and Psychodynamic Scholarship

Toward a Science of Consciousness III Stuart R. Hameroff,Alfred W. Kaszniak,David John Chalmers,1999 Can there be a science of consciousness This issue has been the focus of three landmark conferences sponsored by the University of Arizona in Tucson The first two conferences and books have become touchstones for the field This volume presents a selection of invited papers from the third conference Can there be a science of consciousness This issue has been the focus of three landmark conferences sponsored by the University of Arizona in Tucson The first two conferences and books have become touchstones for the field This volume presents a selection of invited papers from the third conference It showcases recent progress in this maturing field by researchers from philosophy neuroscience cognitive psychology phenomenology and physics It is divided into nine sections the explanatory gap

color neural correlates of consciousness vision emotion the evolution and function of consciousness physical reality the timing of conscious experience and phenomenology Each section is preceded by an overview and commentary by the editors Contributors Dick J Bierman Jeffrey Burgdorf A Graham Cairns Smith William H Calvin Christian de Quincey Frank H Durgin Vittorio Gallese Elizabeth L Glisky Melvyn A Goodale Richard L Gregory Scott Hagan C Larry Hardin C A Heywood Masayuki Hirafuji Nicholas Humphrey Harry T Hunt Piet Hut Alfred W Kaszniak Robert W Kentridge Stanley A Klein Charles D Laughlin Joseph Levine Lianggang Lou Shimon Malin A David Milner Steven Mithen Martine Nida Rumelin Stephen Palmer Jaak Panksepp Dean Radin Steven Z Rapcsak Sheryl L Reminger Antti Revonsuo Gregg H Rosenberg Yves Rossetti Jeffrey M Schwartz Jonathan Shear Galen Strawson Robert Van Gulick Frances Vaughan Franz X Vollenweider B Alan Wallace Douglas F Watt Larry Weiskrantz Fred A Wolf Kunio Yasue Arthur Zajonc

New Perspectives in Research and Treatment of Obsessive-compulsive Disorder Fritz Hohagen, 1998

Handbook of Cognition and Emotion Tim Dalgleish, Mick Power, 2000-11-21 Edited by leading figures in the field this handbook gives an overview of the current status of cognition and emotion research by giving the historical background to the debate and the philosophical arguments before moving on to outline the general aspects of the various research traditions This handbook reflects the latest work being carried out by the key people in the field

Handbook of Integrative Clinical Psychology, Psychiatry, and Behavioral Medicine Roland A. Carlstedt, 2009-12-14 This is the long awaited text on interdisciplinary treatment and assessment of among other clinical topics brain derived behavioral cognitive and neurological disorders Niels Birbaumer PhD University of Tbingen Germany Member of the German Academy of Sciences Leopoldina Gone is the unidimensional approach of the expert summarizing a topic from a single vantage point Instead the content shifts laterally embracing not only interdisciplinary expertise but an integrative way of thinking that transcends each discipline What makes the Handbook so refreshing is that this cross pollination of ideas and approaches is more than novel theorizing It offers clinicians a new way forward Anthony Feinstein MD MPhil PhD FRCP University of Toronto To maintain the highest standards allied health care practitioners must keep pace with evolving trends in diagnostics interventions and methodologies This book supports clinicians by disseminating important perspectives research and procedures It provides an integrative roadmap that fosters interdisciplinary cooperation Key Features Presents reviews of research on a broad selection of clinical disorders Includes a wide range of established and emerging diagnostic and intervention approaches Discusses viable evidence based alternative treatment methods Critiques certain approaches paradigms and practices that may need to be revised Includes contributions from renowned psychologists psychiatrists and researchers Clinicians researchers and students will find this book a valuable source for interdisciplinary practice and research It facilitates a sorely needed move toward integrative practice in an era in which specialization pervades

Adult Psychological Problems Lorna Champion, Michael Power, 2014-04-08 First published in 2000 Routledge is an imprint of Taylor Francis an informa company

Developmental Cognitive Neuropsychology Christine

Temple,2014-06-03 How independent are different cognitive skills during development Is the modularity seen in the studies of adult neuropsychology disorders mirrored by modularity in development Are developmental neuropsychological disorders explicable against cognitive models What restrictions are there to developmental plasticity How many routes are there to competence Is there a single developmental pathway What do disorders of cognitive development tell us about normal developmental processes These are some of the questions addressed by this text In certain cognitive domains such as the analysis of reading and spelling disorders the field is well developed with extensive studies of the development of dyslexias and dysgraphias In other areas such as the analysis of perceptual spatial disorders pertinent studies are beginning as in the analysis of developmental face recognition disorders and the exploration of spatial disorders of Williams syndrome In these areas interesting routes for future inquiry are also evident The text of this book is organized around seven key cognitive areas within which the developmental disorders are addressed in turn language memory perception reading spelling arithmetic and executive skills The first three of this list may be considered the core areas of cognition the second three involve specific cultural transmission in their acquisition and the third concerns higher order processes The major emphasis of the text is upon developmental rather than acquired disorders Throughout case studies are used to convey an impression of the cases themselves and to illustrate how dissociations in performance are displayed Cognition and Emotion Mick Power,Tim Dalgleish,2015-08-20 This fully updated third edition of the highly praised Cognition and Emotion provides a comprehensive overview of contemporary research on both normal emotional experience and the emotional disorders The book provides a comprehensive review of the basic literature on cognition and emotion it describes the historical background and philosophy of emotion reviews the main theories of normal emotions and emotional disorders and the research on the five basic emotions of fear anger sadness anger disgust and happiness The authors provide a unique integration of two areas which are often treated separately the main theories of normal emotions rarely address the issue of disordered emotions and theories of emotional disorders e g depression post traumatic stress disorder and phobias rarely discuss normal emotions The book draws these separate strands together introducing a theoretical framework that can be applied to both normal and disordered emotions Cognition and Emotion provides both an advanced textbook for undergraduate and postgraduate courses in addition to a novel approach with a range of implications for clinical practice for work with the emotional disorders **Clinical Neuropsychology** Mark E. Maruish,James A. Moses,2013-05-13 With the emergence of clinical neuropsychology as one of the fastest growing specialties in psychology comes the need for current and future practitioners to stay abreast of the most recent research A number of professional journals more than adequately meet this need But there is also a need to stay up to date on the current thinking about important problems Drawing upon the expertise of leaders in the field the editors intent in this book was to provide the practitioner with a source for discussions of topics that are vital to their ongoing development as clinical neuropsychologists but that generally are not addressed in the literature to any great

degree *Nutrition and Obsessive-Compulsive Disorder* Senthilkumar Rajagopal,M. Mohamed Essa,Saravanan Ramachandran,Geethalakshmi Sundararaman,Hanan Fahad Alharbi,2023-11-15 This reference book discusses the role of nutrition in obsessive compulsive disorders OCD It covers the investigational therapies in OCD use of animal models and biomarkers for better diagnosis monitoring and possible therapeutic options with nutrients for patients with OCD This book highlights the role of probiotics amino acids vitamins micronutrients and salts in the management of OCD It includes such topics as applications of computational modeling and nano biotechnology in OCD the effects of environmental pollutants and the regulation of antidepressants in OCD KEY FEATURES Covers emerging therapeutic and nutritional approaches for the treatment and management of OCD Reviews the role of various micronutrients in OCD Discusses the prenatal genetic diagnosis and application of computational modelling in OCD Includes the nutritional and dietary roles in such neuropsychiatric disorders as depression and obsessive compulsive disorder OCD Explores the application of nano biotechnology in OCD This book is meant for researchers and professionals in the field of nutritional neuroscience and psychology **Neuroimaging Part B** ,2005-12-01 Comprised of two separate volumes Neuroimaging provides a state of the art review of a broad range of neuroimaging techniques applied to both clinical and research settings The breadth of the methods covered is matched by the depth of description of the theoretical background Part B covers the application of neuroimaging in both research and clinical settings for the study of anxiety disorders dementia depression schizophrenia functional somatic syndromes stroke and multiple sclerosis using a range of neuroimaging modalities including CT PET SPECT DTI structural MRI and fMRI One chapter is devoted to the study of brain development using structural MRI and one chapter to the study of pediatric neurobehavioral disorders using fMRI One of the most exciting recent applications of neuroimaging to the area of genetics is covered and with the theory and application of neuroreceptor imaging in psychiatry forms the final two chapters The two parts of Neuroimaging complement each other providing in depth information on a broad range of routine and cutting edge techniques that is not available in any other text This book is superbly written and beautifully illustrated by contributors working at the top of their chosen specialty Presents recent applications of neuroimaging to the area of genetics Discusses the study of brain development using structural MRI Includes chapters on the theory and application of neuroreceptor imaging in psychiatry

Whispering the Strategies of Language: An Emotional Journey through **Obsessive Compulsive Disorder A Cognitive Neuropsychological Perspective**

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