

A genome-wide search for chromosomal loci linked to mental health wellness in relatives at high risk for bipolar affective disorder among the Old Order Amish

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ABSTRACT Bipolar affective disorder (BPAD; manic-depressive illness) is characterized by episodes of mania and/or hypomania interspersed with periods of depression. Compelling evidence supports a significant genetic component in the susceptibility to develop BPAD. To date, however, linkage studies have attempted only to identify chromosomal loci that cause or increase the risk of developing BPAD. To determine whether there could be protective alleles that prevent or reduce the risk of developing BPAD, similar to what is observed in other genetic disorders, we used mental health wellness (absence of any psychiatric disorder) as the phenotype in our genome-wide linkage scan of several large multigeneration Old Order Amish pedigrees exhibiting an extremely high incidence of BPAD. We have found strong evidence for a locus on chromosome 4p at D4S2949 (maximum GENEHUNTER-PLUS nonparametric linkage score = 4.05, $P = 5.22 \times 10^{-4}$; SIBPAL $P_{\text{multipoint}}$ value $<3 \times 10^{-5}$) and suggestive evidence for a locus on chromosome 4q at D4S297 (maximum GENEHUNTER-PLUS nonparametric linkage score = 3.29, $P = 2.57 \times 10^{-3}$; SIBPAL $P_{\text{multipoint}}$ value $<1 \times 10^{-3}$) that are linked to mental health wellness. These findings are consistent with the hypothesis that certain alleles could prevent or modify the clinical manifestations of BPAD and perhaps other related affective disorders.

Bipolar affective disorder (BPAD) afflicts approximately 1% of the population and is associated with a high risk of suicide (1). Twin, family, and adoption studies have provided strong evidence for an important genetic component in the susceptibility to develop BPAD (2), but unlike for other common medical illnesses, robust biological markers have not been identified for BPAD, and genetic linkage studies have had to rely on categorical diagnoses. Genetic heterogeneity, phenocopies, genotyping errors, and the complexities of performing and interpreting statistical analyses may contribute to some of the inconsistencies observed in these linkage studies (3–12). However, because the inheritance of BPAD is probably multifactorial, the possible involvement of multiple genetic components of small effect and/or the occurrence of major allelic effects only in epistasis must be considered. We previously have suggested (13), that in

addition to susceptibility alleles, there could be alleles that reduce the risk of developing BPAD in a manner similar to that reported for other complex genetic disorders. If model-based linkage analyses are used, a false-negative linkage finding could result when individuals inherit disease susceptibility alleles but do not manifest the phenotype because of the presence of protective alleles. The inclusion of individuals who inherit susceptibility alleles but do not manifest disease because of protective alleles, or of individuals who inherit protective alleles but nevertheless manifest the disease, also will reduce the power of model-free (allelic-sharing) analyses. Thus, regardless of whether model-based or model-free analyses are used, wellness or protective alleles could have a significant impact on linkage analyses.

Ascertainment of psychiatric disorders and health among several large multigenerational Old Order Amish pedigrees covers a period of more than 20 years. Throughout this longitudinal study, procedures for assessing and diagnosing subjects have remained constant and have included a thorough evaluation of all bipolar I (BPI) probands and their relatives (14–16). Morbid risk analyses have demonstrated a high prevalence of affective disorder among first-degree relatives of bipolar probands in these families (17). Because of the long-term, longitudinal nature of the study, the unaffected, mentally healthy individuals in these families also were followed, many for a period of years past the age of risk for BPAD. Consequently, rather than limit our genome-wide search to identifying susceptibility loci for the disease phenotype (BPAD), we tested the hypothesis that protective alleles may contribute to the absence of psychiatric illness (i.e., mental health wellness) in unaffected family members in these high-risk pedigrees. Because the mode of inheritance of any gene(s) modifying the relative risk for affective disorder is unknown (2) we relied exclusively on model-free linkage analyses. We now report strong evidence for linkage of DNA markers on chromosome 4p to mental health wellness in relatives at high risk for, but who did not develop, major affective disorder in several large multigenerational Old Order Amish pedigrees with an extremely high incidence of BPAD.

Abbreviations: BPAD, bipolar affective disorder; NPL, nonparametric linkage; BPI, bipolar I; GH-PLUS, GENEHUNTER-PLUS; IBD, identical by descent.

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Relatives At Risk For Mental Disorder

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Relatives at Risk for Mental Disorder David L. Dunner, Elliot S. Gershon, James Elmer Barrett, 1988 **How to Talk with Families About Genetics and Psychiatric Illness** Holly Landrum Peay, Jehannine Claire Austin, 2011-01-17 Addressing clients questions and concerns about the role of genetics in mental illness As we learn more about how our biology and genes can play into the development of a mental health disorder patients and their families are increasingly seeking answers to tough questions about common risk factors the likelihood of recurrence the need for genetic testing and implications for future generations A practical go to resource for all mental health clinicians this guide explains just how to address these questions and concerns in a way that is comprehensible and compassionate Filled with case studies sample dialogues and question and answer examples it is an essential roadmap for practitioners helping them to demystify a complex issue for their clients and equip them with the accurate reassuring information they need California. Court of Appeal (2nd Appellate District). Records and Briefs California (State)., Received document entitled EXHIBITS **Handbook of Mental Health and Aging** James E. Birren, Gene D. Cohen, R. Bruce Sloane, Barry D. Lebowitz, Donna E. Deutchman, May Wykle, Nancy R. Hooyman, 2013-10-22 This book is a thorough revision of one of the most comprehensive reference volumes for persons working in the area of aging and mental health The thrust of the work is interdisciplinary and discusses research on both clinical and practical issues in aging and mental health The multidisciplinary nature of this book and the inclusion of subject matter from the professional as well as research realm result in a level of comprehensiveness which is distinct in the field of mental health and aging Each chapter contains a comprehensive bibliography the compilation of which represents a definitive reference source in the field The chapters review state of the art research in the biological behavioral and social sciences and represent the cutting edge of current practice in psychiatry neurology social work nursing psychology and pharmacology among other professions The compilation of prevalence data is a much needed addition to the current literature The multidisciplinary nature of this book and the inclusion of both clinical and practical issues makes the book distinctively comprehensive **Evidence-based Policy and Practice in Mental Health Social Work** Martin Webber, 2011-07-11 Mental health social workers work within multidisciplinary teams often based in health settings The variety of services they work within are shaped by mental health policy that is increasingly being influenced by research evidence of what works This fully revised second edition has a new chapter on systematic reviews and greater coverage of the impact of the 2007 amendment to Mental Health Act 1983 on mental health practitioners and services **Violent Behavior and Mental Illness** American Psychiatric Association, Carl C. Bell, 1997 The book is a compendium of articles from Psychiatric Services and Hospital and Community Psychiatry on violent behavior and mental illness *Public Mental Health* William W. Eaton, M. Daniele Fallin, 2019-04-03 A masterful volume that will do much to advance understanding of mental health as an essential public health challenge Journal of Sociology Social Welfare THE GROUNDBREAKING TEXTBOOK IN POPULATION LEVEL

MENTAL HEALTH NOW FULLY REVISED AND UPDATED Public Mental Health equips a new generation of public health students researchers and practitioners with the most innovative social biological and behavioral science approaches to mental health challenges at the population level Incorporating insights from multiple health and science disciplines this new edition introduces novel concepts and methodologies for understanding the occurrence of mental disorders in populations worldwide Reflecting the disciplinary diversity and expertise of an internationally recognized roster of contributors its nineteen chapters include coverage of such essential topics as estimates of global prevalence based on new data from the Global Burden of Disease Study the complex way in which genes other biological factors and life stresses increase risk mental health disparities among population subgroups population level mental health consequences of violence and natural disasters the logic and practice of prevention of mental and behavioral disorders With a perspective that will resonate from the lab to the legislature floor Public Mental Health offers a much need core text for students researchers and practitioners

Recognition and Prevention of Major Mental and Substance Use Disorders American Psychopathological Association, 2007-05-03 Recognizing that favorable clinical outcomes are associated with earlier initiation of treatment and even more ideally with prevention this volume addresses the current status of early intervention in and prevention of major mental and substance use disorders A team of distinguished participants addresses this problem at many levels from the DNA molecule to public policy in order to show how prevention efforts should be informed by a better understanding of etiology and by a knowledge of indicators of vulnerability In considering the current standing of etiological knowledge Recognition and Prevention of Major Mental and Substance Use Disorders addresses issues that are critical precursors to the prevention of mental disorders and offers an understanding of factors that contribute to the disorders development The contributors review genetic methodologies and current findings in mental disorders with an emphasis on schizophrenia and then show how biological and psychosocial environmental variables may affect vulnerability Chapters devoted specifically to lessons in prevention drawn from recent research into schizophrenia discuss the implications of prodromal studies and relationships between stress critical periods and the development of the disorder The book includes contributions from NIH representatives on how basic scientific understanding of mental disorders can be translated into public policy It also features chapters that describe cutting edge projects in prevention research for Alzheimer s disease drug dependence antisocial behavior and posttraumatic stress disorder each providing compelling accounts of how existing knowledge can be adapted to promising prevention efforts Among the volume s contributions New data on the role of substance abuse particularly marijuana and psychostimulants in increasing vulnerability to schizophrenia Review of vulnerability factors for several relevant disorders examining stress and its concomitant psychobiological responses and the contribution of cognitive factors to vulnerability to depression Intriguing approach for translating successful treatment methods for schizophrenia into efforts to prevent the transition from the prodrome of the disorder to the full blown illness Program for prevention of antisocial

behavior that can be implemented as early as the first grade Secondary prevention efforts for posttraumatic stress disorder with a focus on pharmacological interventions Each chapter reviews clinical implications of the research presented contributing to a volume that will benefit clinicians and researchers who share the goal of preventing these debilitating conditions This multidimensional interdisciplinary work represents a major step toward cutting the social costs of these disorders and more important their untold cost in human suffering *A Life Course Approach to Mental Disorders* Karestan C. Koenen, Sasha Rudenstine, Ezra Susser, Sandro Galea, 2013-10 A Life Course Approach to Mental Disorders examines the causes and consequences of a wide range of mental disorders throughout life from the peri natal period through old age

Mental and Neurological Public Health Vikram Patel, Alistair Woodward, Valery Feigin, Stella R. Quah, Kristian Heggenhougen, 2010-06-07 Colin Mathers who leads the Global Burden of Disease group in WHO has confirmed that in the 2004 GBD 13 1% of global Daily Adjusted Life Years are attributable to mental or neurological disorders While the proportions vary very widely from about 10% in low income countries to over 25% in high income countries it is clear that there is a need for understanding how to address this issue This volume aims to provide a comprehensive overview of the public health principles of mental and neurological disorders This vast range of health conditions affects people across the life course from developmental disabilities in childhood to schizophrenia and substance abuse in adults and dementia in old age Despite this diversity they all share many features they are mostly mediated through brain dysfunction or abnormalities are often chronic in course typically benefit from multi component interventions and are amongst the most neglected conditions in global health The volume will bring together chapters from the Psychiatry Neurology Substance Abuse and Child Development sections of the Encyclopedia of Public Health The volume will be the first comprehensive text on a public health approach to this diverse group of health conditions and has no obvious competitor Highlights the common features of many mental and neurological disorders Provides insights into potential cross over methods of identification and treatment Includes chapters on the most frequently diagnosed mental and neurological challenges faced by public health systems

Manic-Depressive Illness Frederick K. Goodwin, Kay Redfield Jamison, 2007-03-22 The revolution in psychiatry that began in earnest in the 1960s led to dramatic advances in the understanding and treatment of manic depressive illness Hailed as the most outstanding book in the biomedical sciences when it was originally published in 1990 Manic Depressive Illness was the first to survey this massive body of evidence comprehensively and to assess its meaning for both clinician and scientist It also vividly portrayed the experience of manic depressive illness from the perspective of patients their doctors and researchers Encompassing an understanding about the illness as Kraepelin conceived of it about its cyclical course and about the essential unity of its bipolar and recurrent unipolar forms the book has become the definitive work on the topic revered by both specialists and nonspecialists alike Now in this magnificent second edition Drs Frederick Goodwin and Kay Redfield Jamison bring their unique contribution to mental health science into the 21st century In collaboration with a team of other

leading scientists a collaboration designed to preserve the unified voice of the two authors they exhaustively review the biological and genetic literature that has dominated the field in recent years and incorporate cutting edge research conducted since publication of the first edition They also update their surveys of psychological and epidemiological evidence as well as that pertaining to diagnostic issues course and outcome and they offer practical guidelines for differential diagnosis and clinical management The medical treatment of manic and depressive episodes is described strategies for preventing future episodes are given in detail and psychotherapeutic issues common in this illness are considered Special emphasis is given to fostering compliance with medication regimens and treating patients who abuse drugs and alcohol or who pose a risk of suicide This book unique in the way that it retains the distinct perspective of its authors while assuring the maximum in depth coverage of a vastly expanded base of scientific knowledge will be a valuable and necessary addition to the libraries of psychiatrists and other physicians psychologists clinical social workers neuroscientists pharmacologists and the patients and families who live with manic depressive illness

Climate Change and Urban Health Emily Ying Yang

Chan,2019-05-14 This book provides a theoretical framework and related technical skills for investigating climate change and its public health consequences and responses with a focus on urban settings and in particular Hong Kong a subtropical metropolis in Asia Specifically the book examines the impact of climate change on health in terms of mortality hospital admissions and help seeking as well as key response strategies of adaptation and mitigation Many existing books tend to consider the relationship of climate change and public health as two connected issues divided into various discrete topics Conversely this book explicitly applies public health concepts to study the human impact of climate change for example by conceptualising climate change impact and its alleviation mitigation and adaptation in a public health framework Overall this volume summarises what is known about climate change and health and ignites further debates in the area especially for urban subtropical communities from within a wider global perspective This book will be of great interest to students and scholars of environmental health public health climate change urban studies and Asian studies

Mechanisms of Psychological Influence on Physical Health Laura L. Carstensen,2012-12-06 In recent years ideas about the influence of psychological status on physical health have been elevated from intuition and clinical lore to a legitimate area of scientific study Mechanisms of influence are indubitably diverse Some of this influence is indirect accounted for simply by the instrumental help that social engagement associated with good mental health affords people for example psychologically healthy people are probably more likely to comply with medication regimens and engage in other healthful behaviors to a greater extent than those who are socially withdrawn or psychologically unstable But recent studies suggest that while the importance of these more obvious factors cannot be denied the complete picture includes factors that are much more subtle and complex A body of research is beginning to accumulate that suggests that all three major regulatory systems the central nervous system the endocrine system and the immune system are affected by cognitions emotions and behavior There is no

doubt that a relationship between mental and physical health exists but very little is known about the specific mechanisms by which such influence occurs At least in part empirical research in this area has been limited by the inherent need for an interdisciplinary approach and synthesis of collected data Recently a few researchers in a number of different disciplines have begun to study directly the linkage between psychological and emotional well being and health

Mental Health Equity Daniel E. Dawes,Nelson J. Dunlap,Octavio N. Martinez,2025-09-06 Mental Health Equity is the first comprehensive textbook to explore the drivers of mental health inequities in the United States and the innovative strategies being used to advance equity through programs and policies Ideal for students in public health mental health health policy social work medicine allied health and psychology this groundbreaking text takes a holistic ecological approach to addressing historically overlooked public health challenges empowering learners to understand and combat mental health disparities The book examines the historical and structural conditions influencing public mental health including the impacts of racism redlining and policy development Further it investigates the diverse determinants of mental health equity social economic environmental biological and political highlighting their interconnected roles in perpetuating inequities It also explores the role that the compounding effects of intersectionality play the importance of actionable frameworks state and federal policy initiatives and payment strategies are for advancing mental health equity Integrating theory with practice offering innovative models global perspectives and practical tools for community engagement and systemic transformation Mental Health Equity provides a detailed call to action This inspiring book is for compassionate leaders clinicians policymakers and advocates who support population health and who strive to counter the persistent inequities affecting millions of Americans Key Features Presents real world applications to groundbreaking frameworks such as intersectionality political determinants of health and anti racism Provides clearly defined learning objectives engaging discussion questions and important case vignettes illustrating challenges of persistent mental health inequities Brings together perspectives from diverse and notable leaders of public health medicine psychology health policy law and social justice Qualified instructors have access to expanded Instructor Resources featuring chapter PowerPoints a Sample Syllabus Test banks an Instructor Manual with learning activities for each chapter and additional resources to supplement students dynamic learning and interaction with the text

Atlas of Psychiatry Waguhi William IsHak,2023-02-27 This atlas is the first fully visual reference to cover psychiatry broadly appealing to psychiatric as well as non psychiatric clinicians and trainees who need an easy to use visual resource with holistic approach to patient care Written by expert clinicians and educators this text describes basic clinical and scholarly information across the field utilizing an easy to understand format The rich figures and tables describe etiology pathophysiology phenomenology and treatment even in areas that are difficult to illustrate including substance related disorders neurodegenerative diseases personality disorders and others The visual approach proves valuable to some of the most innovative techniques in psychiatry including implications for neuroimaging Comprehensive and unique Atlas of

Psychiatry is a landmark reference for all medical practitioners looking for an intricate yet accessible visual resource

Violence and Mental Disorders Bernardo Carpiello, Antonio Vita, Claudio Mencacci, 2019-11-30 This book explores the issue of violence in detail taking into account the role of contextual factors as well as the epidemiology risk factors and clinical aspects of violence related to the main mental disorders It also offers practical information on its management from prevention to treatment Covering all aspects of the problem of violence in mental disorders the book is divided into four parts general aspects risk factors phenomenology and characteristics of violence in mental disorders contexts of violence and prevention and management of violence in mental health It also discusses violence in the various settings of mental health system an aspect that has not previously been fully addressed The volume is intended for all those who are interested in mental health including scholars professionals and students

Psychological Evaluations for the Courts, Third Edition Gary B. Melton, John Petrila, Norman G. Poythress, Christopher Slobogin, 2007-09-18 This is the definitive reference and text for both mental health and legal professionals The authors offer a uniquely comprehensive discussion of the legal and clinical contexts of forensic assessment along with best practice guidelines for participating effectively and ethically in a wide range of criminal and civil proceedings Presented are findings instruments and procedures related to criminal and civil competencies civil commitment sentencing personal injury claims antidiscrimination laws child custody juvenile justice and more

Parental Psychiatric Disorder Michael Göpfert, Jeni Webster, Mary V. Seeman, 2004-05-13 A unique and innovative approach to family issues in psychiatric disorders The authors tackle a broad range of complex issues that are rarely covered in the depth or with the expertise that this volume brings This book is a major contribution to the field and provides the kind of international perspective that enhances our understanding of the complex dimensions of psychiatric disorders from a multigenerational and cross cultural perspective From a review of the first edition by Carol Nadelson Professor of Psychiatry Harvard Medical School It is indisputable that mental illness in a parent has serious and often adverse effects on the child something which is surprisingly unreflected in clinical service provision In this completely rewritten second edition an international multidisciplinary team of professionals review the most up to date treatment interventions from a practical clinical point of view It is essential reading for all professionals dealing with adult mental illness and child care

Mental Health Research and Practice Andrea Fiorillo, Peter Falkai, Philip Gorwood, 2024-01-31 A comprehensive handbook covering current controversial and debated topics in psychiatric practice aligned to the EPA Scientific Sections All chapters been written by international experts active within their respective fields and they follow a structured template covering updates relevant to clinical practice and research current challenges and future perspectives This essential book features a wide range of topics in psychiatric research from child and adolescent psychiatry epidemiology and social psychiatry to forensic psychiatry and neurodevelopmental disorders It provides a unique global overview on different themes from the recent dissemination in ordinary clinical practice of the ICD 11 to the innovations in addiction and

consultation liaison psychiatry In addition the book offers a multidisciplinary perspective on emerging hot topics including emergency psychiatry ADHD in adulthood and innovation in telemental health An invaluable source of evidence based information for trainees in psychiatry psychiatrists and mental health professionals *Bipolar Disorder* Steven E.

Hyman,2019-03-13 There has been a revolution in our understanding of mental illness and its effect on society The science of mental illness has made enormous strides based on the just completed decade of the brain and is poised to make quantum progress again based on the completion of the Human Genome Project These and other developments are covered in this new multi volume set which brings together in one in depth collection the most significant recent scholarship on mental and addictive disorders The volumes are organized to provide cutting edge views of the epidemiology genetics evolutionary perspectives and brain and behavioral science of mental illness as well as selected papers on treatment The papers are selected from leading journals in the US and worldwide based on their significance and on the need to provide a balanced perspective The collection offers a comprehensive and up to date overview and includes introductions that make the technical aspects of the papers accessible

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