



Psychosocial, Neurobiological and Familial Influences on Children and Adolescents' Alcohol and Substance Use

Çocuk ve Ergenlerin Alkol ve Madde Kullanımında Psikososyal, Nörobiyolojik ve Ailesel Etkenler

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ABSTRACT

Recent studies show that the starting age of alcohol and substance use has dropped to primary school. Many factors play a role in the initiation of alcohol and substance use by children and adolescents. In particular, peer relationships, comorbid mental disorders, socioeconomic levels, the relationships between parents, and the relationships of children and adolescents with their parents are considered risk factors for developing alcohol and substance use disorder. In this review, psychosocial and neurobiological influences playing roles in children and adolescents' alcohol and substance addiction are reviewed. Addiction risks and protective factors of children and adolescents are discussed regarding the results of current studies.

Keywords: Addiction, alcohol, substance, child, adolescent, family, neurobiology

ÖZ

Güncel çalışmalarda çocuklukta alkol ve madde kullanımına başlama yaşı ilköğretim çağına kadar düşmüştür. Çocuk ve ergenlerin alkol ve madde kullanmaya başlamalarında birçok etken rol oynamaktadır. Özellikle akran ilişkileri, eşlik eden ruhsal sorunların varlığı, sosyoekonomik düzeyler, ebeveynlerin kendi aralarındaki ilişkisi ve çocuk ve ergenlerin ebeveynleri ile ilişkisi alkol ve madde kullanımı bozukluğunun gelişmesi için risk faktörleri olarak değerlendirilmektedir. Bu derlemede, çocuk ve ergenlerin alkol ve madde bağımlılıklarında rol oynayan psikososyal ve nörobiyolojik etkenler gözden geçirilmiştir. Çocuk ve ergenlerin bağımlılık risk faktörleri ve koruyucu faktörleri güncel çalışmaların sonuçları ışığında tartışılmıştır.

Anahtar Kelimeler: Bağımlılık, alkol, madde, çocuk, ergen, aile, nörobiyoloji

Introduction

Substance use disorders (SUD) constitute an emerging global problem. Researchers argue that teenagers who start using alcohol and substances have a greater risk of developing the disorder.¹ There are various explanations of risks and protective factors for alcohol and substance use in terms of genetic susceptibility, sociocultural influences, personality traits, and comorbid mental disorders. Moreover, there are alcohol and substance use motives from different theoretical perspectives, such as learning, cognition, social learning, and expectancy theories.² There are interactions between these theoretical perspectives and the family environment. Thus, it is possible to claim that family relations significantly affect children's and adolescents' alcohol and substance use.

SUD includes loss of control over a substance and continuation of its use despite discernible negative consequences while behavioral addictions may include loss of control of a behavior.

To diagnose a person with the misuse of alcohol or substances, one should meet at least two or three of the specific criteria for the past year.³ These criteria are:

- Using alcohol and substances longer than intended for.
- Unsuccessful attempts at quitting or reducing the amount and frequency of use.
- Spending too much time procuring, using and recovering from the effects of alcohol and substances.
- Feeling powerful urges and cravings to use alcohol and substances.
- Repeated problems in completion of responsibilities at school, work or home.
- Continuing use of alcohol and substances despite recurrent problems in social activities and peer relations.
- Reduced attendance to/complete withdrawal from social, vocational and entertainment activities.

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Neurobiological Disorders In Children And Adolescents

Gary G. Berntson, John T. Cacioppo



Neurobiological Disorders In Children And Adolescents:

Neurobiological Disorders in Children and Adolescents Enid Peschel, 1992 Neurobiology of Disease Michael V Johnston, Harold P Adams, Ali Fatemi, 2016-08-18 The second edition of *Neurobiology of Disease* includes nearly 200 articles surveying all major disorders of the nervous system in both adults and children focusing on relevant diagnosis and treatments from the perspective of cutting edge clinical and basic neurobiological research Akin to an encyclopedia of every neurologic disorder this comprehensive work is ideal for graduate and medical school students residents and candidates preparing for their board certification examinations Each chapter is illustrated with detailed figures supplemented with descriptive and diagnostic tables and thoroughly referenced for further investigations The book's editors Michael V Johnston Harold P Adams Jr and Ali Fatemi bring their unique expertise in clinical and research neurology to the overall scope of this work To further enhance the scope and quality of this new edition the following Section Editors provided oversight of their respective sections Movement Disorders Joel Perlmutter Washington University Dementias David Knopman Mayo Clinic Motorneuron Diseases Merit Cudkowicz Massachusetts General Hospital Paroxysmal Disorders Solomon Moshe Albert Einstein College of Medicine Pediatric Neurology and Developmental Disorders Tanjala Gipson and Deepa Menon Kennedy Krieger Institute and Johns Hopkins University Neuroimmunological Diseases Carlos Pardo Villamizar Johns Hopkins University Cerebrovascular Diseases Harold P Adams Jr University of Iowa Peripheral and Autonomic Nervous System Disorders and Pain Nicholas Maragakis Johns Hopkins University Neoplastic and Paraneoplastic Diseases Lisa DeAngelis Memorial Sloan Kettering Cancer Center Infectious Diseases of the Nervous System Karen L Roos Indiana University Sleep Disturbances Mark Dyken University of Iowa Substance Abuse and Toxicology Disorders Barry E Kosofsky Weill Cornell University Medical Center Neurologic Manifestations of Medical Disorders John C Probasco Johns Hopkins University

Neurobiology of Psychiatric Disorders Thomas E Schlaepfer, Charles B. Nemeroff, 2012-07-09 This new volume in the *Handbook of Clinical Neurology* presents a comprehensive review of the fundamental science and clinical treatment of psychiatric disorders Advances in neuroscience have allowed for dramatic advances in the understanding of psychiatric disorders and treatment Brain disorders such as depression and schizophrenia are the leading cause of disability worldwide It is estimated that over 25% of the adult population in North America are diagnosed yearly with at least one mental disorder and similar results hold for Europe Now that neurology and psychiatry agree that all mental disorders are in fact brain diseases this volume provides a foundational introduction to the science defining these disorders and details best practices for psychiatric treatment Provides a comprehensive review of the scientific foundations of psychiatric disorders and psychiatric treatment Includes detailed results from genetics molecular biology brain imaging and neuropathological immunological epidemiological metabolic therapeutic and historical aspects of the major psychiatric disorders A must have reference and resource for neuroscientists neurologists psychiatrists and clinical psychologists as well as all research

scientists investigating disorders of the brain Rutter's Child and Adolescent Psychiatry and Psychology Anita Thapar, Daniel S. Pine, Samuele Cortese, Cathy Creswell, Tamsin J. Ford, James F. Leckman, Argyris Stringaris, 2025-05-23 Up to date edition of a leading textbook on child and adolescent psychiatry with new information on COVID 19 digital technology and more Both interdisciplinary and international in scope Rutter's Child and Adolescent Psychiatry delivers an expansive overview of the current state of the field covering the latest research advancements and technological developments This Seventh Edition has undergone an extensive revision process including a comprehensive review of chapter outlines and two stages of critical review for each full chapter by the editorial team In this edition each author provides short video clips to give a taste of their chapter along with instructor slides for teaching and training New chapters cover changes in science and the needs of children around the world global threats including COVID 19 wars and natural disasters care in low resource settings diversity in relation to gender and sexual orientation and body dysmorphic disorder as well as digital technology detailing the growing interest in digital approaches to assessment and intervention Written by a team of expert editors and contributors Rutter's Child and Adolescent Psychiatry discusses sample topics including Diagnosis diagnostic formulations and classifications of developmental psychopathology as well as neurodevelopmental disorders and emotion emotional regulation and emotional disorders Child maltreatment and sexual abuse as well as influences on psychopathology including genetics epigenetics psychosocial adversity parental psychiatric disorders and physical treatment Available treatments including parenting programs cognitive behavioural therapy family interventions and relationship based treatments Contexts of clinical encounters including refugee and asylum seeking children children affected by HIV AIDS and children with specific sensory impairments The Seventh Edition of Rutter's Child and Adolescent Psychiatry is an essential resource for all professionals working and learning in the fields of child and adolescent mental health and developmental psychopathology along with clinicians working in primary care and paediatric settings Sleep in Childhood Neurological Disorders Sanjeev V. Kothare, Suresh Kotagal, MD, 2011-01-27 Sleep in Childhood Neurological Disorders addresses the myriad sleep wake issues associated with neurological disturbances from the newborn period through adolescence The editors and contributing authors are internationally recognized authorities who cover everything from sleep and ADHD headaches restless leg syndrome parasomnias hypersomnias autism brain tumors epilepsy traumatic brain injury and other primary disorders to sleep co morbidities assessment testing interventions pharmacology and more The first book devoted to the growing field of pediatric neurosomnology Sleep in Childhood Neurological Disorders is an invaluable text for clinicians looking for current information and practical guidance to successfully manage their pediatric sleep patients Sleep in Childhood Neurological Disorders features Dedicated focus on neurologically based sleep disorders in children Diagnostic tables key points clinical pearls and treatment algorithms throughout to enhance clinical utility Directions for Future Research in each chapter highlight promising studies and new therapies Broad based coverage of the full range of common sleep disorders and co

morbidities *The Handbook of the Neurobiology of Eating Disorders* Oxford Editor,2025-10-03 The handbook provides readers with a useful and accessible reference that summarizes and highlights critical findings in eating disorders to provide foundational knowledge of biological and brain function in eating disorders how this relates to symptom expression and maintenance and how this can inform future research and treatment development efforts needed to improve efficacy

Child and Adolescent Neurology for Psychiatrists Audrey M. Walker,Cynthia R. Pfeffer,David Myland Kaufman,Gail E. Solomon,2008 Completely revised for its Second Edition this text is geared to residents and fellows training in child and adolescent psychiatry and those preparing for board examinations in both general and child psychiatry The book covers common neurologic disorders seen in the pediatric population their presentation including psychiatric symptoms and their workup diagnosis and treatment Coverage includes psychiatric comorbidities in pediatric neurologic disorders and psychiatric side effects of medications used to treat pediatric neurologic disorders Case presentations demonstrate the diagnostic approach to patients in pediatric neurology and on the interface of pediatric neurology and psychiatry Practice questions offer excellent review for board certification and recertification examinations A glossary is also included

Rosenberg's Molecular and Genetic Basis of Neurological and Psychiatric Disease Roger N. Rosenberg,Juan M. Pascual,2020-06-24 Rosenberg s Molecular and Genetic Basis of Neurologic and Psychiatric Disease Sixth Edition Volume One provides a comprehensive introduction and reference to the foundations and key practical aspects relevant to neurologic and psychiatric disease A favorite of over three generations of students clinicians and scholars this new edition retains and expands the informative concise and critical tone of the first edition This is an essential reference for general medical practitioners neurologists psychiatrists geneticists and related professionals and for the neuroscience and neurology research community The content covers all aspects essential to the practice of neurogenetics to inform clinical diagnosis treatment and genetic counseling Every chapter has been thoroughly revised or newly commissioned to reflect the latest scientific and medical advances by an international team of leading scientists and clinicians The contents have been expanded to include disorders for which a genetic basis has been recently identified together with abundant original illustrations that convey and clarify the key points of the text in an attractive didactic format Comprehensive coverage of the neurogenetic foundation of neurological and psychiatric disease Provides a detailed introduction on both the clinical and basic research implications of molecular and genetics surrounding the brain Includes new chapters on molecular genomics CRISPR and the most recent updates in molecular genetics *Handbook of Neuroscience for the Behavioral Sciences, Volume 2* Gary G. Berntson,John T. Cacioppo,2009-10-12 As technology has made imaging of the brain noninvasive and inexpensive nearly every psychologist in every subfield is using pictures of the brain to show biological connections to feelings and behavior Handbook of Neuroscience for the Behavioral Sciences Volume II provides psychologists and other behavioral scientists with a solid foundation in the increasingly critical field of neuroscience Current and accessible this

volume provides the information they need to understand the new biological bases research tools and implications of brain and gene research as it relates to psychology *Charney & Nestler's Neurobiology of Mental Illness* Dennis S. Charney, Pamela B. Sklar, Eric J. Nestler, Joseph D. Buxbaum, 2018 In the years following publication of the DSM 5 R the field of psychiatry has seen vigorous debate between the DSM's more traditional diagnosis oriented approach and the NIMH's more biological dimension based RDoC research domain criteria approach Charney Nestler's *Neurobiology of Mental Illness* is an authoritative foundation for translating information from the laboratory to clinical treatment and its fifth edition extends beyond this reference function to acknowledge and examine the controversies different camps and thoughts on the future of psychiatric diagnosis In this wider context this book provides information from numerous levels of analysis including molecular biology and genetics cellular physiology neuroanatomy neuropharmacology epidemiology and behavior Sections and chapters are edited and authored by experts at the top of their fields No other book distills the basic science and underpinnings of mental disorders and highlights practical clinical significance to the scope and breadth of this classic text In this edition Section 1 which reviews the methods used to examine the biological basis of mental illness in animal and cell models and in humans has been expanded to reflect critically important technical advances in complex genetics including powerful sequencing technologies and related bioinformatics epigenetics stem cell biology optogenetics neural circuit functioning cognitive neuroscience and brain imaging This range of established and emerging methodologies offer groundbreaking advances in our ability to study the brain as well as unique opportunities for the translation of preclinical and clinical research into badly needed breakthroughs in our therapeutic toolkit Sections 2 through 7 cover the neurobiology and genetics of major psychiatric disorders psychoses including bipolar disorder mood disorders anxiety disorders substance use disorders dementias and disorders of childhood onset Also covered within these sections is a summary of current therapeutic approaches for these illnesses as well as the ways in which research advances are now guiding the search for new treatments Each of these parts has been augmented in several different areas as a reflection of research progress The last section Section 8 reconfigured in this new edition now focuses on diagnostic schemes for mental illness This includes an overview of the unique challenges that remain in diagnosing these disorders given our still limited knowledge of disease etiology and pathophysiology The section then provides reviews of DSM 5 R which forms the basis of psychiatric diagnosis in the United States for all clinical work and of RDoC which provides an alternative perspective on diagnosis in heavy use in the research community Also included are chapters on future efforts toward precision and computational psychiatry which promise to someday align diagnosis with underlying biological abnormalities **Rutter's Child and Adolescent Psychiatry** Anita Thapar, Daniel S. Pine, James F. Leckman, Stephen Scott, Margaret J. Snowling, Eric A. Taylor, 2017-12-26 Rutter's *Child and Adolescent Psychiatry* is the leading textbook in its field Both interdisciplinary and international it provides a coherent appraisal of the current state of the field to help researchers trainees and practicing clinicians in their

daily work Integrating science and clinical practice it is a comprehensive reference for all aspects of child and adolescent psychiatry New to this full color edition are expanded coverage on classification including the newly revised Diagnostic and Statistical Manual of Mental Disorders DSM 5 and new chapters on systems neuroscience relationship based treatments resilience global psychiatry and infant mental health From an international team of expert editors and contributors this sixth edition is essential reading for all professionals working and learning in the fields of child and adolescent mental health and developmental psychopathology as well as for clinicians working in primary care and pediatric settings Michael Rutter has contributed a number of new chapters and a Foreword for this edition I greatly welcome this new edition as providing both a continuity with the past and a substantial new look Professor Sir Michael Rutter extract from Foreword Reviews of previous editions This book is by far the best textbook of Child Adolescent Psychiatry written to date Dr Judith Rapoport NIH The editors and the authors are to be congratulated for providing us with such a high standard for a textbook on modern child psychiatry I strongly recommend this book to every child psychiatrist who wants a reliable up to date comprehensive informative and very useful textbook To my mind this is the best book of its kind available today Journal of Child Psychology and Psychiatry *Behavioral and Emotional Disorders in Adolescents* David A. Wolfe, Eric J. Mash, 2006-01-01 Systematic authoritative and timely this is an outstanding reference and text for anyone working with or studying adolescents More than 50 leading experts comprehensively review current knowledge on adolescent externalizing disorders internalizing disorders developmental disorders personality and health related disorders gender identity and sexual disorders and maltreatment and trauma Chapters identify the core features of each disorder explore its etiology course and outcome address diagnostic issues specific to adolescents and describe effective assessment and treatment approaches The book also provides an integrative conceptual framework for understanding both healthy and maladaptive adolescent development Biomedical Index to PHS-supported Research, 1990 **Diet and Exercise in Cognitive Function and Neurological Diseases** Akhlaq A. Farooqui, Tahira Farooqui, 2015-04-20 Diet and exercise have long been recognized as important components of a healthy lifestyle as they have a great impact on improving cardiovascular and cerebrovascular functions lowering the risk of metabolic disorders and contributing to healthy aging As a greater proportion of the world's population is living longer there has been increased interest in understanding the role of nutrition and exercise in long term neurological health and cognitive function Diet and Exercise in Cognitive Function and Neurological Diseases discusses the role and impact that nutrition and activity have on cognitive function and neurological health The book is divided into two sections The first section focuses on diet and its impact on neurobiological processes Chapters focus on the impacts of specific diets such as the Mediterranean ketogenic and vegan diets as well as the role of specific nutrients fats fatty acids and calorie restriction on neurological health and cognitive function The second section of the book focuses on exercise and its role in maintaining cognitive function reducing neuroinflammatory responses regulating adult neurogenesis and healthy brain aging Other chapters look

at the impact of exercise in the management of specific neurological disorders such Multiple Sclerosis and Parkinson s Disease Diet and Exercise in Cognitive Function and Neurological Diseases is a timely reference on the neurobiological interplay between diet and exercise on long term brain health and cognitive function **Charney and Nestler's**

Neurobiology of Mental Illness Dennis Charney, Eric Nestler, Joseph D. Buxbaum, Elisabeth B. Binder, Joshua A.

Gordon, Marina R. Picciotto, 2025-01-03 The genetic investigation into mental illnesses has progressed rapidly since the mapping of the human genome Driven by advances in genomic profiling technology massive genomic datasets are powering the discovery of genetic variation associated to complex traits including mental illness From severe neurodevelopmental disorders to schizophrenia and depression genetic variation plays some role in risk Critically most mental illnesses are complex multifactorial and the consequence of a combination of genetic and environmental influences This chapter will introduce the genome its variation and the methods used to identify what variants and genes matter for mental illnesses

Neurobiology of Brain Disorders Michael J. Zigmond, Clayton A. Wiley, Marie-Françoise Chesselet, 2022-05-20

Neurobiology of Brain Disorders Biological Basis of Neurological and Psychiatric Disorders Second Edition provides basic scientists a comprehensive overview of neurological and neuropsychiatric disease This book links basic translational and clinical research covering the genetic developmental molecular and cellular mechanisms underlying all major categories of brain disorders It offers students postdoctoral fellows and researchers in diverse fields of neuroscience neurobiology neurology and psychiatry the tools they need to obtain a basic background in the major neurological and psychiatric diseases Topics include developmental autoimmune central and peripheral neurodegeneration infectious diseases and diseases of higher function Organized by individual disorder each chapter includes coverage of the clinical condition diagnosis treatment underlying mechanisms relevant basic and translational research and key unanswered questions This volume reflects progress in the field since publication of the first edition with fully updated chapters and new chapters on isolation aging global diseases vascular diseases and toxic metabolic disease New disorder coverage includes fibromyalgia chronic fatigue Restless Legs Syndrome myasthenia gravis and more Links basic translational and clinical research on disorders of the nervous system Covers a vast array of neurological and psychiatric disorders including Down syndrome autism muscular dystrophy diabetes TBI Parkinson s Huntington s Alzheimer s OCD PTSD schizophrenia depression and pain Features new chapters on the effects of aging and isolation on brain health Expands coverage on disorders including new chapters on fibromyalgia chronic fatigue and restless legs syndrome Features in text summary points special feature boxes and research questions Neurobiology of Mental Illness Dennis S. Charney, Joseph D. Buxbaum, Pamela Sklar, Eric J. Nestler, 2013-07-04

Our understanding of the neurobiological basis of psychiatric disease has accelerated in the past five years The fourth edition of Neurobiology of Mental Illness has been completely revamped given these advances and discoveries on the neurobiologic foundations of psychiatry Like its predecessors the book begins with an overview of the basic science The emerging

technologies in Section 2 have been extensively redone to match the progress in the field including new chapters on the applications of stem cells optogenetics and image guided stimulation to our understanding and treatment of psychiatric disorders Sections 3 through 8 pertain to the major psychiatric syndromes the psychoses mood disorders anxiety disorders substance use disorders dementias and disorders of childhood onset Each of these sections includes our knowledge of their etiology pathophysiology and treatment The final section discusses special topic areas including the neurobiology of sleep resilience social attachment aggression personality disorders and eating disorders In all there are 32 new chapters in this volume including unique insights on DSM 5 the Research Domain Criteria RDoC from NIMH and a perspective on the continuing challenges of diagnosis given what we know of the brain and the mechanisms pertaining to mental illness This book provides information from numerous levels of analysis including molecular biology and genetics cellular physiology neuroanatomy neuropharmacology epidemiology and behavior In doing so it translates information from the basic laboratory to the clinical laboratory and finally to clinical treatment No other book distills the basic science and underpinnings of mental disorders and explains the clinical significance to the scope and breadth of this classic text The result is an excellent and cutting edge resource for psychiatric residents psychiatric researchers and doctoral students in neurochemistry and the neurosciences

Intersectoral global action plan on epilepsy and other neurological disorders 2022-2031 World Health Organization,2023-07-20 [The Burden of Adult ADHD in Comorbid Psychiatric and Neurological Disorders](#) Stefano Pallanti,Luana Salerno,2020-04-22 This book highlights the importance of investigating for ADHD in adults with attention difficulties poor memory and executive function impairments The authors advocate a neurodevelopmental assessment approach in all phases of life and explain how to perform such assessments The identification of ADHD in adults with other psychiatric and neurological disorders will lead to a better response to treatments and as a result reduce its social economic and personal burden ADHD can no longer be considered solely a pediatric condition as it occurs in a significant proportion of adults worldwide However ADHD in adults is often unrecognized and untreated Diagnosing the disorder in adulthood is a challenge due not only to the different clinical presentation in this phase of life but also to the fact that other conditions may mask the symptoms ADHD constitutes a hidden comorbidity with a detrimental impact of those affected and a poor response or even non response to several treatments Intended for psychiatrists neurologists specialists in gerontology and neuropsychology this book is an indispensable resource for all mental health practitioners who want to optimize the treatment of patients affected by psychiatric and neurological disorders who respond poorly to standard treatments

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

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Neurobiological Disorders In Children And Adolescents Introduction

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