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# Psychiatric disorders in adolescents and young adults with Down syndrome and other intellectual disabilities

Elisabeth M. Dykens<sup>1,2\*</sup>, Bhavik Shah<sup>3</sup>, Bruce Davis<sup>1</sup>, Courtney Baker<sup>1</sup>, Taylor File<sup>1</sup> and Jeri Fitzpatrick<sup>1</sup>

## Abstract

**Background:** Relative to other aspects of Down syndrome, remarkably little is known about the psychiatric problems experienced by youth and young adults with this syndrome and if these problems differ from others with intellectual disabilities. Yet adolescence and young adulthood are particularly vulnerable time periods, as they involve multiple life transitions in educational, medical, and other service systems.

**Methods:** This study compared the psychiatric diagnoses of 49 adolescent and young adult patients with Down syndrome to 70 patients with other intellectual disabilities (IDs). The groups were similar in age, gender, and level of intellectual impairment. The 119 participants, aged 13 to 29 years ( $M = 21$ ) were evaluated in one of two specialized psychiatric clinics.

**Results:** In contrast to previous literature, those with Down syndrome versus other IDs had significantly higher rates of psychosis NOS or depression with psychotic features (43% versus 13%). Unlike the ID group, psychosis was predominantly seen in females with Down syndrome. Marked motoric slowing in performing routine daily activities or in expressive language was manifested in 17% of patients with Down syndrome. No group differences were found in anxiety or depressive disorders, and the ID group had significantly higher rates of bipolar and impulse control disorders.

**Conclusions:** These preliminary observations warrant further studies on genetic, neurological, and psychosocial factors that place some young people with Down syndrome or other IDs at high risk for severe psychiatric illness.

**Keywords:** Down syndrome, Intellectual disabilities, Depression, Psychosis, Catatonia

## Background

A growing literature describes the behavioral phenotypes of people with neurodevelopmental disorders, but not all neurodevelopmental disorders receive equal research attention. Down syndrome, for example, is understudied both in relation to rare, clinically severe disorders and to more prevalent conditions such as autism spectrum disorders, or attention deficit hyperactivity disorder [1]. Not surprisingly then, research gaps are increasingly identified in the Down syndrome literature [2,3].

One salient research gap concerns co-occurring mental health disorders in Down syndrome and how these are manifested in different age groups [2]. Older adults with Down syndrome, for example, are relatively well studied because of their increased risks of Alzheimer's disease, attributed to the third copy and overexpression of the amyloid precursor protein gene on chromosome 21 (for a review, see Zigman [4]). Depressive symptoms in this older age group have also been described, and careful evaluations are necessary to differentiate a depressive disorder from the early clinical signs of dementia [5]. On the other end of the developmental spectrum, young children with Down syndrome appear to have lower overall rates of disruptive behaviors as well as distinctive social, motivational, and attention profiles [6-8]. In contrast to older adults or children, remarkably

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# Psychiatric Disorders In Adolescents

**Leo Sher,Joav Merrick**



## **Psychiatric Disorders In Adolescents:**

**Mental Health Disorders in Adolescents** Eric P. Hazen, Mark A. Goldstein, Myrna Chandler Goldstein, 2010-12-22 This book provides essential information to help parents educators and general practitioners find effective ways to identify and treat psychiatric disorders that many teens face By recognising the early symptoms of a psychiatric disorder adults may be able to save a teen s life

Adolescent Psychiatry Leo Sher, Joav Merrick, 2013-10-14 Psychiatric disorders in adolescents are an important social problem which is relevant to almost all healthcare professionals According to the results of The National Comorbidity Survey Adolescent Supplement NCS A the lifetime prevalence of anxiety behavior mood and substance use disorders among adolescents was 31 9% 19 1% 14 3% and 11 4% respectively Approximately 40% of participants in this survey with one class of disorder also met criteria for another class of lifetime disorder Comorbidity is increasingly recognized as a key feature of mental disorders among adolescents Female adolescents are more likely than males to have mood and anxiety disorders but less likely to have behavioral and substance use disorders Regretfully medical professionals are not sufficiently trained about adolescent psychiatric disorders For example primary care providers correctly identify less than a fourth of youth with a depressive or anxiety disorder Also many clinicians underestimate the importance of the problem of adolescent psychiatric illnesses and suicidal behavior Lack of skilled medical providers impedes the delivery of needed services to adolescents with mental health issues This coupled with a lag in the ability of primary health care services to incorporate psychiatric interventions and a failure of public health initiatives to pay attention to adolescent mental health problems has led to continuing gaps in care over decades despite the public pronouncements of needs In this book you will find relevant information for health professionals since we believe that the mental health of adolescents is essential for sustaining healthy and productive societies

Handbook of Serious Emotional Disturbance in Children and Adolescents Diane T. Marsh, Mary A. Fristad, 2002-10-23 The only comprehensive work on SED with practical information on diagnosing and treating children with SED Features contributions by leading experts of SED research and practice Includes a foreword by Kay Jamison a nationally recognized author on mental illness

**Mental Health Disorders in Adolescents** Eric P. Hazen, Mark A. Goldstein, Myrna Chandler Goldstein, 2010-12-22 Mental Health Disorders in Adolescents provides essential information to help parents educators and general practitioners find effective ways to identify and treat psychiatric disorders that many teens face The first of two reader friendly sections Recognizing the Problem Finding Help and Negotiating the System is designed to help caregivers navigate the often confusing adolescent mental health system Readers will find comprehensive information about when and how to seek help and the kinds of treatments that are available including a detailed discussion of psychiatric medications and psychotherapy options Common Psychiatric Problems in Adolescence the second section offers information on specific psychiatric disorders including symptoms and warning signs diagnostic evaluations treatment options prognosis and associated risks for each disorder Additionally Eric P Hazen Mark A Goldstein

and Myrna Chandler Goldstein have compiled two practical appendices one provides a list of resources organizations books websites and phone numbers for further information and support The other serves as a treatment organizer to help parents know what school and medical data to bring to a psychiatric evaluation and teach them how to keep track of important discussions related to their child s treatment By recognizing the early symptoms of a psychiatric disorder adults may be able to save a teen s life Mental Health Disorders in Adolescents offers real options to anyone searching for ways to help at risk teens

**Psychotic Disorders in Children and Adolescents** Robert L. Findling,S. Charles Schulz,Javad H. Kashani,Elena Harlan,2000-10-13 Psychotic disorders are frequently misunderstood and or misdiagnosed by many clinicians that deal with children including clinical social workers mental health counselors child psychiatrists and child psychologists Many times it is difficult for a mental health professional to determine whether the problematic behaviors exhibited such as hearing voices and seeing things that do not exist are the result of an altered normal developmental process or the result of a serious mental disorder Psychotic Disorders in Children and Adolescents will provide mental health professionals and students a resource that contains specific information needed to assess better the exact nature of what is affecting the young patient The book addresses normal developmental process and cultural influences vs psychotic disorders normal grief vs pathological grief vs depression and brief psychotic episodes vs organic and chronic types of psychosis

**Handbook of Mental Health in African American Youth** Alfiee M. Breland-Noble,Cheryl S. Al-Mateen,Nirbhay N. Singh,2016-01-22 This handbook fills major gaps in the child and adolescent mental health literature by focusing on the unique challenges and resiliencies of African American youth It combines a cultural perspective on the needs of the population with best practice approaches to interventions Chapters provide expert insights into sociocultural factors that influence mental health the prevalence of particular disorders among African American adolescents ethnically salient assessment and diagnostic methods and the evidence base for specific models The information presented in this handbook helps bring the field closer to critical goals increasing access to treatment preventing misdiagnosis and over hospitalization and reducing and ending disparities in research and care Topics featured in this book include The epidemiology of mental disorders in African American youth Culturally relevant diagnosis and assessment of mental illness Uses of dialectical behavioral therapy and interpersonal therapy Community approaches to promoting positive mental health and psychosocial well being Culturally relevant psychopharmacology Future directions for the field The Handbook of Mental Health in African American Youth is a must have resource for researchers professors and graduate students as well as clinicians and related professionals in child and school psychology public health family studies child and adolescent psychiatry family medicine and social work

**Psychiatric Disorders in Adolescents** Richard W. Hudgens,1974

**Designing Mental Health Services for Children and Adolescents** J. Gerald Young,Pierre Ferrari,2013-03-07 An exceptional opportunity is being missed A chance to alleviate suffering and to achieve health care cost reductions for society is available but is being ignored There is an explosion of new knowledge about the emotional and

intellectual development of children and the causes and treatment of psychiatric disorders of children and adolescents Research from diverse disciplines such as the developmental neurosciences psychoanalysis psychopharmacology developmental psychology and genetics propels us forward However the effects of this new knowledge reach children and adolescents slowly or not at all The long history of neglect of the mental health of children and adolescents is now exaggerated by sudden disruptive economic and political influences on mental health services for children and adolescents in most countries Prevention and treatment of emotional and intellectual problems in childhood and adolescence have vastly improved but utilization of these advantages lags behind This disappointing incongruity stimulates a need to document our knowledge about these services and systems and to make it more broadly available This is the primary aim of this new volume by a team of distinguished contributors It reviews the causes and prevalences of psychiatric disorders in children and adolescents the problem of health care financing for these services the underutilization of these services our current understanding of the outcomes of treatment and the new models for both treatment and prevention The book also provides a survey of current mental health services and systems for children and adolescents in countries across the world Information drawn from these multiple perspectives has been used by a group of international experts to develop the Venice Declaration providing specific guidelines for families clinicians administrators and policy makers who are concerned with the development of children and adolescents and are committed to a more efficient economic approach to mental health services

*Multiaxial Classification of Child and Adolescent Psychiatric Disorders* World Health Organisation, 1996-12-12 An essential guide to clinical description of child and adolescent psychiatric disorder *Treatment Strategies in Child and Adolescent Psychiatry* H.B. Ferguson, J.G. Simeon, 2013-06-13 It is clear that child and adolescent psychiatric disorders impose a heavy burden of suffering Recent large scale community epidemiological studies suggest that as many as 20% of children and adolescents in the general population may have clinically important mental disorders These disorders are accompanied by associated impairments in various domains of the child's life resulting in lowered life quality for the child and his or her family In addition for some conditions the onset of the disorder in childhood heralds a lifetime of serious psychosocial disturbance for a significant subgroup of affected children For instance about 40% of children seen in clinic settings with conduct disorder in late childhood and early adolescence will have serious psychiatric disorders in adult life Finally the heavy burden of suffering of these conditions is indicated by the large amounts of both human and financial resources devoted to their assessment and treatment There is a pressing need in the field for effective treatments that is those that have been shown to do more good than harm that will result in a significant reduction in the burden of suffering resulting from these disorders Further these effective interventions must be readily available and acceptable to clinicians in the settings in which children with mental disorders and their families seek care This book addresses an important need in the treatment field

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