

Polypharmacy in the Management of Attention-Deficit/Hyperactivity Disorder in Children and Adolescents: A Review and Update

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Abstract

Objective: Prescription of multiple medications concurrently for children and adolescents has increased in recent years. Examination of this practice has been undervalued relative to its incidence. This article reviews studies investigating effectiveness of medication combinations for youth with attention-deficit/hyperactivity disorder (ADHD).

Methods: A literature search identified studies that combined two or more prescribed medications for the treatment of ADHD. Included studies focused on youth; had study design of randomized controlled trial (RCT), nonrandomized trial, or case review ($n > 10$); and included an outcome measure of treatment effectiveness.

Results: Thirty-nine pertinent studies were identified. All studies combined two medications, with the vast majority including a stimulant ($n = 37$). The largest group ($n = 16$) combined stimulant and alpha-agonist, finding greater efficacy than alpha-agonist alone but not stimulant alone in all cases. A few RCTs found benefit from the addition of risperidone or divalproex to stimulant for comorbid aggression. Four studies adding atomoxetine found mixed reports of benefit, including the only small RCT showing no benefit. RCTs with selective serotonin reuptake inhibitors found minimal evidence of benefit for mood or anxiety comorbidities.

Conclusion: The best studied combination is stimulant and alpha-agonist; addition of alpha-agonist to stimulant seems effective for residual symptoms of ADHD. Stimulant plus risperidone has the most evidence of efficacy for comorbid aggression or disruptive behavior. Limited support exists for the effectiveness of other medication combinations, including no trials studying three or more medications concurrently. Combinations frequently yielded more side effects, leaving monotherapy preferable if a sufficient treatment response can be achieved.

Keywords: polypharmacy, review article, child and adolescent psychiatry, attention-deficit/hyperactivity disorder, ADHD

Introduction

COMBINED PHARMACOTHERAPY CAN be the optimal therapeutic intervention in some youth, including situations with residual symptoms on monotherapy, presence of comorbid conditions, potential synergistic effects from targeting different symptom clusters or mechanisms of action, or prophylaxis for or management of adverse effects (Wilens et al. 1995). The rate of psychotropic polypharmacy (defined as the simultaneous use of two or more psychotropic medications) has increased in recent years among the general pediatric population. Polypharmacy among visits where a

psychotropic medication was prescribed increased from 14.3% to 20.2% over a 12-year period ending in 2007 (Comer et al. 2010). Among medication classes, second-generation antipsychotic (SGA) use increased by 22% between 2004 and 2008, with 85% of prescriptions concurrent with other medications (Koveler et al. 2014). Youth diagnosed with attention-deficit/hyperactivity disorder (ADHD) with no other stated comorbid diagnosis experienced a 14.6% increase in concurrent SGA use between 2004 and 2008, and those with comorbid diagnosis similarly showed 8.8% increase, totaling 10% of the subsample in 2008. ADHD and anti-psychotic medications are among the most commonly co-prescribed

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Management Of Children And Adolescents With Attention Deficit Hyperactivity Disorder

Joseph Sadek



Management Of Children And Adolescents With Attention Deficit Hyperactivity Disorder:

Management of Children and Adolescents with Attention Deficit-hyperactivity Disorder Ronald J. Friedman, Guy T. Doyal, 1992 Attention-Deficit/Hyperactivity Disorder in Children and Adolescents Brian P. Daly, Aimee K. Hildenbrand, Shannon G. Litke, Ronald T. Brown, 2023-12-11 State of the art guidance on the effective assessment and treatment of children and adolescents with ADHD New updated edition Provides guidance on multimodal care and diversity issues Includes downloadable handouts This updated new edition of this popular text integrates the latest research and practices to give practitioners concise and readable guidance on the assessment and effective treatment of children and adolescents with attention deficit hyperactivity disorder ADHD This common childhood condition can have serious consequences for academic emotional social and occupational functioning When properly identified and diagnosed however there are many interventions that have established benefits This volume is both a compact how to reference for use by professionals in their daily work and an ideal educational reference for students It has a similar structure to other books in the Advances in Psychotherapy series and informs the reader of all aspects involved in the assessment and management of ADHD Practitioners will particularly appreciate new information on the best approaches to the ideal sequencing of treatments in multimodal care and the important diversity considerations Suggestions for further reading support groups and educational organizations are also provided A companion volume Attention Deficit Hyperactivity Disorder ADHD in Adults is also available **Current Management of Child Neurology** Maria, 2007 *Current Management in Child Neurology* Bernard L. Maria, 2005 Current Management in Child Neurology Third Edition aims to provide busy practitioners with standard of care reviews on the evaluation and treatment of the most common complaints or conditions that relate to nervous system disorders and dysfunction The book is designed to supplement standard textbooks that provide detailed information on etiology pathogenesis and therapeutic controversies in pediatric clinical neuroscience This edition contains three sections and 98 chapters written by highly respected leaders in the field It builds upon the success of previous editions by offering succinct updated reviews of the superb second edition chapters by 46 senior authors 37 reviews by new authors and 15 reviews by new authors on new topics In the first section Clinical Practice Trends the reader will find data on the most common outpatient and inpatient conditions insights into educational trends pearls on conducting a meaningful neurologic examination information on key Web sites and advice on excelling at the art of medicine In The Office Visit section subheadings are organized according to the frequency of conditions in the office or clinic setting The section offers management reviews in headache seizures epilepsy neurobehavioral disorders school readiness developmental delay and a range of other conditions The final section The Hospitalized Child features 22 chapters addressing current therapy issues for trauma meningitis and encephalitis injury to the preterm and term brains status epilepticus and a host of other conditions associated with hospital care Several chapters were added to this new edition including selections on current

pharmacotherapy for migraine epilepsy and ADHD each with practitioner friendly tables on drugs one chapter was added on home management of breakthrough seizures In addition the Suggested Readings and Physician and Patient Resources sections of each chapter help trainees and caregivers do their homework about relevant conditions

Attention-Deficit/Hyperactivity Disorder in Children and Adolescents Brian P. Daly,Aimee K. Hildenbrand,Shannon G. Litke,Ronald T. Brown,2023-12-11 State of the art guidance on the effective assessment and treatment of children and adolescents with ADHD New updated edition Provides guidance on multimodal care and diversity issues Includes downloadable handouts This updated new edition of this popular text integrates the latest research and practices to give practitioners concise and readable guidance on the assessment and effective treatment of children and adolescents with attention deficit hyperactivity disorder ADHD This common childhood condition can have serious consequences for academic emotional social and occupational functioning When properly identified and diagnosed however there are many interventions that have established benefits This volume is both a compact how to reference for use by professionals in their daily work and an ideal educational reference for students It has a similar structure to other books in the Advances in Psychotherapy series and informs the reader of all aspects involved in the assessment and management of ADHD Practitioners will particularly appreciate new information on the best approaches to the ideal sequencing of treatments in multimodal care and the important diversity considerations Suggestions for further reading support groups and educational organizations are also provided A companion volume Attention Deficit Hyperactivity Disorder ADHD in Adults is also available The Maudsley Prescribing Guidelines in Psychiatry David M. Taylor,Thomas R. E. Barnes,Allan H. Young,2021-05-06 The Maudsley Prescribing Guidelines in Psychiatry The new edition of the world renowned reference guide on the use of medications for patients presenting with mental health problems The Maudsley Prescribing Guidelines in Psychiatry is the essential evidence based handbook on the safe and effective prescribing of psychotropic agents Covering both common and complex prescribing situations encountered in day to day clinical practice this comprehensive resource provides expert guidance on drug choice minimum and maximum doses adverse effects switching medications prescribing for special patient groups and more Each clear and concise chapter includes an up to date reference list providing easy access to the evidence on which the guidance is based The fourteenth edition has been fully updated to incorporate the latest available research the most recent psychotropic drug introductions and all psychotropic drugs currently used in the UK USA Canada Australia New Zealand and Japan Several new sections cover topics such as deprescribing of major psychiatric drugs prescribing psychotropics at the end of life the treatment of agitated delirium the genetics of clozapine prescribing the use of weekly penfluridol and the treatment of psychotropic withdrawal Featuring contributions by an experienced team of psychiatrists and specialist pharmacists the new edition of The Maudsley Prescribing Guidelines in Psychiatry Provides succinct coverage of drug treatment of psychiatric conditions and formulating prescribing policy in mental health Covers a wide range of psychiatric

conditions including schizophrenia bipolar disorder depression and anxiety borderline personality eating disorders and many others Provides advice on prescribing for children and adolescents older people pregnant women and other special patient groups Offers new sections on genetic prescribing long acting injectable formulations ketamine administration and uses and dopamine super sensitivity Includes referenced information on off label prescribing potential interactions with other substances such as alcohol tobacco and caffeine and treating patients with comorbid physical conditions Whether in the doctor s office in the clinic or on the ward The Maudsley Prescribing Guidelines in Psychiatry Fourteenth Edition is a must have for psychiatrists pharmacists neuropharmacologists clinical psychologists nurses and other healthcare professionals working in mental health as well as trainees and students in medicine pharmacy and nursing **Textbook of Family**

Medicine E-Book David Rakel,Robert E. Rakel,2011-03-24 Edited by Robert E Rakel MD and David P Rakel MD Textbook of Family Medicine remains your 1 choice for complete guidance on the principles of family medicine primary care in the community and all aspects of clinical practice Ideal for both residents and practicing physicians it includes evidence based practical information to optimize your patient care and prepare you for the ABFM exam The full color format features a clean quick reference layout that makes it easy for you to put information to work immediately in your practice You can also access the complete contents online at www.expertconsult.com plus 30 videos of common office procedures additional chapters on timely topics and figures tables and photographs that supplement the text Prepare for success on the ABFM exam with complete coverage of all aspects of family medicine Access information quickly with an efficient full color layout that makes it easy to apply the latest knowledge in your practice Take advantage of today s most useful online resources with a convenient list of outstanding clinical websites Quickly spot Best Evidence Recommendations with special boxes located throughout the text Glean helpful tips on diagnosis and therapy from Key Points boxes found on every page Access the complete contents and illustrations online at www.expertconsult.com fully searchable plus additional figures tables and photographs online as well as online only chapters that cover topics such as prescribing nutritional supplements and botanicals View 30 videos online covering common office procedures such as vasectomy the proper use of today s diabetic equipment and endometrial biopsy Gain a new understanding of the patient centered medical home and how to achieve this status in outpatient clinics Make the most effective care decisions with help from Evidence vs Harm icons that guide you through key treatments of common medical conditions **Pediatric Primary Care - E-Book** Catherine E. Burns,Ardys M. Dunn,Margaret A. Brady,Nancy Barber Starr,Catherine G. Blosser,2012-02-14 Covering the full spectrum of health conditions seen in the primary care of children Pediatric Primary Care 5th Edition emphasizes both prevention and management from the unique perspective of the Nurse Practitioner Written by an expert editor contributor team it provides in depth evidence based guidance for assessing and managing health problems in children from infancy through adolescence Other key topics include developmental theory the health status of children today issues of daily living and cultural considerations Four part organization includes an

introductory unit plus units on child development the health management of children and diseases and disorders common to childhood UNIQUE Functional health patterns framework in Unit Three provides a lens for discussing health promotion through the various components of healthy living UNIQUE ICD framework in Unit Four addresses the classification used to code diseases in both hospital and outpatient settings UNIQUE Practice management chapter provides need to know information on managing a private healthcare practice including issues of productivity compliance with applicable laws quality of care indicators and successful business practices UNIQUE Environmental health chapter offers evidence based content on the effects of environmental toxicants such as tobacco smoke heavy metals and air pollutants An 8 page color insert presents over 40 photos that visually demonstrate key assessment findings for ear skin and other conditions NEW Pediatric Pain Management chapter addresses the increased recognition of pain as the fifth vital sign with expanded coverage of acute and chronic pain management in children Extensively revised and updated genetics chapter presents a new paradigm for addressing genetic considerations in clinical practice including an introduction to epigenetics Increased emphasis on health disparities explores the growing health disparities among children in the U S and worldwide and provides strategies to help patients and parents gain accessibility to health care resources NEW Content on implementing a medical home explores the trend toward family centered coordinated health care and fosters appropriate treatment for children with chronic disease NEW Updated coverage takes a more global approach exploring the health status of children outside the U S Expanded imaging content offers valuable guidance on using various imaging modalities including how to prepare the child for diagnostics

Oxford Textbook of Attention Deficit Hyperactivity Disorder Tobias Banaschewski, David Coghill, Alessandro Zuddas, 2018-05-11

Attention deficit hyperactivity disorder ADHD is one of the most common mental disorders affecting children and adolescents The condition is characterized by a persistent pattern of behavioural symptoms including inattentiveness hyperactivity and impulsiveness associated with substantial impairment in social academic and or occupational functioning Clinical and research interest in the topic of ADHD has grown substantially in recent years but despite this there is still a lack of up to date reference texts devoted to the diagnosis assessment and management of patients with these conditions Part of the Oxford Textbooks in Psychiatry series the Oxford Textbook of Attention Deficit Hyperactivity Disorder attempts to bridge this gap by providing an authoritative multi disciplinary guide to the latest research developments in the diagnosis assessment and management of patients with ADHD Organized into eight key sections this textbook covers the aetiology pathophysiology epidemiology clinical presentation co morbidity clinical assessment and clinical management of ADHD Individual chapters address key topics such as the clinical assessment of ADHD in adults and contain information on best practice current diagnostic guidelines including DSM 5 and ICD 11 and key up to date references for further reading Edited and written by an international group of recognized experts the Oxford Textbook of Attention Deficit Hyperactivity Disorder is a comprehensive resource suitable for child and adolescent psychiatrists adult psychiatrists

and psychiatric trainees as well as child psychologists paediatricians psychiatric nurses and other mental health care professionals

Green's Child and Adolescent Clinical Psychopharmacology Rick Bowers, Julia Jackson, Christina Weston, 2018-09-12 Publisher's Note Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality authenticity or access to any online entitlements included with the product The sixth edition of this classic text continues to provide clinically oriented information on medications used to treat common mental health conditions and disorders in children and adolescents The book boasts an accessible style with even more tables graphs and clinical pearls than ever before that is designed for easy reading and comprehension Substantially updated with expanded medication coverage for new FDA approved indications this practical guide is perfect for residents and practitioners in psychiatry and pediatrics as well as family medicine

Rising Stars in Child Mental Health and Interventions Yael Dvir, Ujjwal Ramtekkar, 2024-11-11 We are delighted to announce a call for submissions to the forthcoming Rising Stars in Child Mental Health and Interventions Research Topic This article collection will showcase the work of internationally recognized researchers in the early stages of their independent careers We aim to highlight research by leading researchers and clinicians of the future across the entire breadth of the child mental health field and present advances to compelling problems Please note contributions to the collection are by invitation only Please inform the Editorial Office at childandadolescentpsychiatry@frontiersin.org once you are prepared to submit We are happy to receive a range of manuscript types such as original research reviews mini reviews opinions and hypotheses on various topics related to child mental health and interventions

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Comprehensive Evidence Based Interventions for Children and Adolescents Candice A. Alfano, Deborah C. Beidel, 2014-06-30 A complete guide to evidence based interventions for children and adolescents The past decade has witnessed the development of numerous interventions proved to be highly effective several treatments are now considered to be well established or probably efficacious interventions for children Given the range of providers working with children clinical psychologists child psychiatrists clinical social workers school psychologists and marriage and family therapists this book is designed to provide all professionals the information they now need about the use of these evidence based interventions EBIs as well as the evaluation criteria used to determine their efficacy in meeting the mental health needs of children Alfano and Beidel have assembled a team of experts to write the disorder chapters Each chapter begins with an overview of the disorder then delves into evidence based approaches to treatment the impact of parental involvement case by case modifications progress measurement and clinical examples In overview chapters the editors cover The role of development in treatment planning and implementation Dissemination of EBIs into school and community settings The use of controversial therapies with children Emerging methods of service delivery and access improvement Comprehensive Evidence Based Interventions for Children and Adolescents provides clinicians researchers and students alike with the

theoretical conceptual and practical skills to provide children and adolescents with the best care possible **Clinician's Guide to Adult ADHD Comorbidities** Joseph Sadek, 2016-09-26 The diagnosis and management of ADHD co occurring with other disorders such as anxiety depression and personality disorders remain major challenges for clinicians treating all age groups This book guides clinicians through each step in the diagnosis and management of the comorbidities of adult ADHD on the basis of essential case studies describing psychiatric disorders that frequently occur with ADHD Each case includes a diagnosis section and management section and is accompanied by questions and answers concerning the most important aspects in diagnosing and managing both ADHD and the comorbid disorders Drawn from actual clinical encounters the case studies also feature ample current and valid references **Resources in Education** ,1999 **Attention-Deficit**

Hyperactivity Disorder in Adults and Children Lenard A. Adler, Thomas J. Spencer, Timothy E. Wilens, 2015-01-08 Attention Deficit Hyperactivity Disorder ADHD is a chronic neurobehavioral disorder characterized by persistent and often acute distractibility hyperactivity and impulsivity It is a condition usually associated with children but in recent years the diagnosis of ADHD in adults has risen significantly ADHD often coexists with a wide array of other psychiatric illnesses including depression and bipolar disorder thus complicating its assessment and management In Attention Deficit Hyperactivity Disorder in Adults and Children a team of world renowned experts bring together the recent research in this area and cover the history diagnosis epidemiology comorbidity neuroimaging and a full spectrum of clinical options for the management of ADHD The wide ranging detailed coverage in this text will be of interest to psychiatrists psychologists social workers coaches physicians or anyone who wants to develop a deeper understanding of the etiology characteristics developmental process diagnostics and range of treatment modalities **Massachusetts General Hospital Handbook of General Hospital Psychiatry** Theodore A. Stern, 2010 Experts from the Massachusetts General Hospital widely respected as one of the world's premier psychiatric institutions provide practical advice on the diagnosis and treatment of psychiatric issues experienced by in hospital medically ill adults and children This compact resource reads like a handbook but delivers all the details you'd expect from a textbook Find information quickly thanks to an improved chapter organization and get just the answers you need with concise yet complete coverage appropriate for psychiatrists and generalists alike **A**

Clinician's Guide to ADHD Joseph Sadek, 2013-11-21 The Clinician's Guide to ADHD combines the useful diagnostic and treatment approaches advocated in different guidelines with insights from other sources including recent literature reviews and web resources The aim is to provide clinicians with clear concise and reliable advice on how to approach this complex disorder The guidelines referred to in compiling the book derive from authoritative sources in different regions of the world including the United States Canada Australia and Europe After introductory discussion of epidemiology and etiology guidance is provided on diagnosis in different age groups differential diagnosis assessment for potential comorbidities and the issue of ADHD and driving Advice is then given on the appropriate use of pharmacological and psychosocial treatment

the management of adverse events and follow up A series of relevant scales questionnaires and websites are also included

The American Psychiatric Publishing Textbook of Psychopharmacology Alan F. Schatzberg, Charles B. Nemeroff, 2009 Now updated to keep professionals current with the latest research and trends in the field this edition covers both basic science and clinical practice and draws on the talents of 53 new contributors to guarantee fresh authoritative perspectives on advances in psychiatric drug therapy

Massachusetts General Hospital Handbook of General Hospital Psychiatry E-Book Theodore A. Stern, Oliver Freudenreich, Felicia A. Smith, Gregory L. Fricchione, Jerrold F. Rosenbaum, 2017-08-09 For generations of practitioners the Massachusetts General Hospital Handbook of General Hospital Psychiatry has been and is the gold standard guide to consultation liaison psychiatry and psychosomatic medicine The fully updated 7th Edition by Drs Theodore A Stern Oliver Freudenreich Felicia A Smith Gregory L Fricchione and Jerrold F Rosenbaum provides an authoritative easy to understand review of the diagnosis evaluation and treatment of psychiatric problems experienced by adults and children with medical and surgical conditions Covers the psychological impact of chronic medical problems and life threatening diseases somatic symptom disorders organ donors and recipients pain substance abuse and polypharmacy including a thorough review of drug actions and interactions metabolism and elimination Features DSM 5 updates throughout as well as case studies in every chapter Contains practical tips on how to implement the most current and effective pharmacological therapies as well as cognitive behavioral approaches Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures images videos including video updates glossary and references from the book on a variety of devices

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