

Case Report

Serotonin Syndrome Developing Immediately after the Initiation of Low-Dose Methadone Therapy: A Case Report

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Keywords

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Abstract

We present a case in which serotonin syndrome developed immediately after the initiation of low-dose methadone following an increase in oxycodone dose and the initiation of duloxetine. The symptoms of serotonin syndrome were alleviated and later disappeared upon cessation of methadone alone. The case was a 47-year-old woman with a desmoid tumor. The administration of duloxetine (20 mg/day) was initiated while the patient took oxycodone sustained-release tablets (40 mg/day). The following day, excessive perspiration, chills, and tremors appeared after the initiation of 15 mg/day methadone. Discontinuation of methadone led to an alleviation of the symptoms which completely disappeared 3 days later. The results suggest that low-dose methadone can trigger serotonin syndrome as early as after the first dose. Thus, it is important to be aware of the risks and to immediately take action if symptoms appear.

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Introduction

Serotonin syndrome (SS) is an adverse event triggered by the use of molecules such as selective serotonin reuptake inhibitors and serotonin-norepinephrine reuptake inhibitors and causes some symptoms such as excessive perspiration, clonus, and tremors due to

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Serotonin Syndrome Case Report

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Serotonin Syndrome Case Report:

Case reports in psychopharmacology Patricia Di Ciano, Matej Stuhec, 2024-02-06 *Clinical Handbook of Psychotropic Drugs* Ric M. Procyshyn, Katelyn Halpape, David D. Kim, 2025-05-12 Quick and comprehensive information on psychotropic drugs for adults Accurate and up to date Comparison charts help decision making Icons and full color Available both in print and online Downloadable patient information sheets More about this book The Clinical Handbook of Psychotropic Drugs has become a standard reference and working tool for psychiatrists psychologists physicians pharmacists nurses and other mental health professionals Independent unbiased up to date Packed with unique easy to read comparison charts and tables dosages side effects pharmacokinetics interactions for a quick overview of treatment options Succinct bulleted information on all classes of medication on and off label indications US FDA Health Canada recommended dosages US and Canadian trade names side effects interactions pharmacodynamics precautions in the young the elderly and pregnancy nursing implications and much more all you need to know for each class of drug Potential interactions and side effects summarized in comparison charts With instantly recognizable icons and in full color throughout allowing you to find at a glance all the information you seek This book is a must for everyone who needs an up to date easy to use comprehensive summary of all the most relevant information about psychotropic drugs Clearly written patient information sheets can be downloaded as printable PDF files from the Hogrefe website after registration New in this edition Antidepressants chapter revised extensively and includes new sections on the selective serotonin 5 HT1A agonist gepirone and difficult to treat depression Antipsychotics chapter includes a new section on the muscarinic agonist antagonist combination Xanomeline trospium chloride a novel treatment that does not block D2 dopamine receptors Major revisions to TGA Dosing and Pharmacokinetics Drugs for Treatment of Dementia chapter includes donanemab infusion Drugs for ADHD comparison table expanded Drugs of Abuse chapter has been revised extensively and includes a new section on Psychedelics and Dissociative Drugs New formulations and trade names include Abilify Asimtufii aripiprazole extended release 2 monthly injection Azstarys serdexmethylphenidate dexamethylphenidate capsules CAMCEVI leuprolide 6 month slow release SC depot injection Drizalma Sprinkle duloxetine capsules Eldepryl selegiline tablets and capsules Eprontia topiramate oral solution Exxua gepirone extended release tablets Ketalar ketamine hydrochloride injection Kisunla donanemab infusion Lybalvi olanzapine samidorphan tablets Onyda clonidine extended release suspension Relexii methylphenidate extended release tablets Secuado asenapine transdermal patch Zurzuvae zuranolone capsules Drug-induced Neurological Disorders Kewal K. Jain, 2021-07-13 This book is a first of its kind reference that systematically organizes and describes the adverse effects of drugs on the nervous system Drug safety is recognized as an important aspect of pharmaceutical companies as well as practice of medicine Chapters include case reports of adverse effects of drugs that are published as well as reported to drug manufacturers The book scope is broad as it covers lack of efficacy drug resistance drug disease and drug drug interactions

This information is used to improve the use of drugs as well as to design better and safer drugs for the future and is relevant to personalized medicine in trying to match the right drugs to the patients Drug induced Neurological Disorders offers a unique approach to this important topic by integrating clinical neurology with pharmacology with a focus on effects of drugs on the nervous system including those used for the treatment of neurological disorders as well systemic diseases Many adverse effects involve multiple systems of the body and the syndromes with predominant effect on the nervous system are included in this book

Drug-induced Diseases James E. Tisdale, Douglas A. Miller, 2010 Since the first edition of this book was published in 2005 drug therapy has seen both breakthrough advances and sobering setbacks The changes will continue That s why every health care professional hospital and health system pharmacy and medical school needs this invaluable reference It will help you detect prevent and manage drug related diseases And also remind you to always ask yourself the increasingly critical question Could this disease be drug related

Treatment of Depression - Newer Pharmacotherapies Cynthia D. Mulrow, 2000-02 Major depressive disorders are persistent recurring illnesses that are the 4th most important cause of worldwide loss in disability adjusted life years and is likely to become the 2nd most important within 20 years A continued quest for more effective treatments has spawned newer antidepressants and herbal treatments which have contributed to explosive growth in the prescribing of antidepressants increasing pharmacy costs and wider but sometimes confusing choices for clinicians and patients This report provides a comprehensive evaluation of the benefit and adverse effects of newer pharmacotherapies and herbal treatments

Side Effects of Drugs Annual Sidhartha D. Ray, 2022-11-26 Side Effects of Drugs Annual A Worldwide Yearly Survey of New Data in Adverse Drug Reactions Volume 44 first published in 1977 presents clinicians and medical investigators with a critical survey of new data and trends in adverse drug reactions and interactions Topics covered in this new release include Thyroid hormones Iodine and Iodides and Antithyroid Drugs Side Effects of Antidepressant Medications Side Effects of Lithium Side Effects of Opioid Analgesics and Narcotic Antagonists Side Effects of Beta lactams and Tetracyclines Side effects of Anti diabetic Drugs Vaccines Side Effects of Neuromuscular Blockings Agents and Skeletal Muscle Relaxants and much more Other chapters cover General Anesthetics and Therapeutic Gases Drugs that Act on the Respiratory Tract Positive Inotropic Drugs and Drugs Used in Dysrhythmias Metals and Metal Antagonists Antiseptic Drugs and Disinfectants with special scrutiny of COVID 19 pandemic related side effects Drugs in tuberculosis and leprosy Anthelmintic drugs Blood and blood treatments and a variety of other topics Provides a critical yearly survey of the new data and trends regarding the side effects of drugs Authored and reviewed by worldwide pioneers in the clinical and practice sciences Presents an essential clinical guide on the side effects of drugs for practitioners and healthcare professionals alike

Case Reports in Movement Disorders - volume III - 2023 Alberto Albanese, 2024-04-08 This Research Topic aims to collect all the Case Reports submitted to the Movement Disorders section All the Case Reports submitted to this collection will be personally assessed by a senior Associate Editor before the beginning of the peer review

process Please make sure your article adheres to the following guidelines before submitting it Case Reports highlight unique cases of patients that present with an unexpected diagnosis treatment outcome or clinical course *Applied Clinical Pharmacokinetics and Pharmacodynamics of Psychopharmacological Agents* Michael W. Jann, Scott R. Penzak, Lawrence J. Cohen, 2016-03-02 This book is a comprehensive resource on psychotropic medications detailing the latest methods for defining their characteristics their use in different patient populations and drug drug interactions an important collection of information for clinicians students researchers and members of the pharmaceutical industry alike The first section provides the foundational principles of these drugs Mathematical modeling of parameters that affect their entry to and exit from the central nervous system CNS compartment are presented on an individual basis and then applied to target populations with specific disease states Methods and characteristics that inform the transfer of these drugs from the laboratory bench to use in patient care are discussed including imaging techniques genetics and physiological barriers such as the blood brain barrier The second section describes the characteristics of specific agents nominally arranged into different therapeutic categories and with reference crossover use in different disease states The pharmacologic characteristics of different drug formulations are explored in the context of their ability to improve patient adherence The third section focuses on drug drug interactions Psychotropic medications from different categories are frequently prescribed together or alongside medications used to treat comorbid conditions and the information provided is directly relevant to the clinic as a result The clinical application of pharmacokinetics and pharmacodynamics of CNS agents has made significant progress over the past 50 years and new information is reported by numerous publications in psychiatry neurology and pharmacology Our understanding of the interrelationship between these medications receptors drug transporters as well as techniques for measurement and monitoring their interactions is frequently updated However with information presented on a host of different platforms and in different formats obtaining the full picture can be difficult This title aims to collate this information into a single source that can be easily interpreted and applied towards patient care by the clinical practitioner and act as a reference for all others who have an interest in psychopharmacological agents **The Maudsley Prescribing Guidelines in Psychiatry** David M. Taylor, Thomas R. E. Barnes, Allan H. Young, 2025-03-20 The most up to date edition of the gold standard handbook on the safe and effective prescribing of psychotropic agents Prescribing medications that treat mental illness is a challenging but essential component of clinical practice Successful treatment outcomes require careful drug choice and dosage and other considerations can also have an important impact on patient experiences and long term care In the newly revised fifteenth edition of *The Maudsley Prescribing Guidelines in Psychiatry* you will find up to date and authoritative guidance on prescribing psychotropic medications to patients It is an indispensable evidence based handbook that will continue to serve a new generation of clinicians and trainees The book includes analyses of all psychotropic drugs currently used in the United States the United Kingdom Canada Australia New Zealand and Japan It also contains detailed discussions of common and

uncommon adverse effects the ramifications of switching medications special patient groups and other clinically relevant subjects A fully updated reference list closes out each section as well The Maudsley Prescribing Guidelines in Psychiatry is perfect for trainees seeking essential and accurate information on the rational safe and effective use of medications for patients with mental illness Practising clinicians will also benefit from the included guidance on complex issues that might arise less frequently

Side Effects of Drugs Annual ,2024-11-20 Side Effects of Drugs Annual A Worldwide Yearly Survey of New Data in Adverse Drug Reactions Volume 46 first published in 1977 presents clinicians and medical investigators with a critical survey of new data and trends in adverse drug reactions and interactions Topics covered include ADRs ADEs and SEDs A Bird s Eye View Lithium Drugs of abuse Side effects of drugs used in the treatment of Alzheimer s disease Sedatives and hypnotics Antipsychotic agents Anti epileptic Medications Side effects of opioid analgesics and narcotic antagonists Anti inflammatory and antipyretic analgesics and drugs used in gout Side effects of local anesthetics and therapeutic gases and more Other sections covered include Antihistamines H1 receptor antagonists Drugs that act on the respiratory tract Positive inotropic drugs and drugs used in dysrhythmias Beta adrenergic antagonists and antianginal drugs Drugs acting on the cerebral and peripheral circulations Antihypertensive drugs and much much more Provides a critical yearly survey of the new data and trends regarding the side effects of drugs Authored and reviewed by worldwide pioneers in the clinical and practice sciences Presents an essential clinical guide on the side effects of drugs for practitioners and healthcare professionals alike

Clinical Handbook of Psychotropic Drugs for Children and Adolescents Dean Elbe,Tyler R. Black,Ian R. McGrane,Sabina Choi,2023-04-24 Quick and comprehensive information on psychotropic drugs for children and adolescents Accurate and up to date Specific to children and adolescents Charts and tables help decision making Icons and full color More about this book The Clinical Handbook of Psychotropic Drugs for Children and Adolescents is a unique resource to help you make the right choices about psychotropic medications for younger patients The fifth edition of this widely acclaimed reference has been fully updated and expanded Updated information on psychiatric disorders in children and adolescents Unique comparison charts dosages side effects pharmacokinetics interactions that allow you to see at a glance which medication is the most suitable for each patient Instantly recognizable icons in full color throughout allowing you to quickly find all the information you seek General information on medications availability and indications Drug action dosing pharmacokinetics and related areas Warnings and precautions Patient related information such as lab monitoring recommendations nursing implications and patient advice Clearly written patient and caregiver information sheets as printable pdf files This book is a must for all mental health professionals working with children and adolescents who need an up to date easy to use comprehensive summary of all the most relevant information about psychotropic drugs New in this edition New chapters on Prescribing Safely and Ethically to Children and Adolescents Pharmacogenetic Information for Common Psychotropic Drugs and Aggression Management in Children and Adolescents Neuroscience based nomenclature

added to Product Availability tables Antipsychotic Induced Extrapyrimal Side Effect EPSE chapter completely revised plus new section on monitoring scales for EPSE Anxiolytics section on buspirone and benzodiazepine comparison table revised

Practical Psychopharmacology Joseph F. Goldberg, Stephen M. Stahl, 2021-04-29 A practical guide translating clinical trials findings across major psychiatric disorders to devise tailored evidence based treatments

Issues in Critical and Emergency Medicine: 2013 Edition ,2013-05-01 Issues in Critical and Emergency Medicine 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Injury Research The editors have built Issues in Critical and Emergency Medicine 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Injury Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Critical and Emergency Medicine 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Irwin and Rippe's Intensive Care Medicine Richard S. Irwin, James M. Rippe, 2008 Thoroughly updated for its Sixth Edition this classic reference remains an unsurpassed source of definitive practical guidance on adult patient care in the ICU It provides encyclopedic multidisciplinary coverage of both medical and surgical intensive care and includes a how to atlas of procedures and a new section on noninvasive monitoring Each Sixth Edition chapter for the first time identifies Advances in Management based on randomized controlled clinical trials The cardiology section has been completely rewritten to reflect advances in management of acute coronary syndromes Also included are extensive updates on management of COPD diabetes oncologic emergencies and overdoses and poisonings A companion Website will provide instant access to the complete and fully searchable online text

Evidence-Based Critical Care Robert C. Hyzy, Jakob McSparron, 2020-03-24 This extensively updated textbook comprehensively reviews the latest developments in evidence based critical care Topics are covered in a case study format with an emphasis on the principles of diagnosis and therapy Each topic is covered using a variety of case studies and features a case vignette clinical question and an additional discussion section to clarify areas of particular importance Topics including cytokine release syndrome sympathomimetic overdose and palliative care in the intensive care unit have been extensively revised while new sections focusing on neuromuscular disease and subarachnoid hemorrhages have been added Evidence Based Critical Care 2nd edition is a critical resource for critical care practitioners fellows residents allied health professionals and medical students who wish to expand their knowledge within critical care The case study based approach taken in the textbook makes this an ideal resource for those preparing for board examinations

Simpson's Forensic Medicine Jason Payne-James, Richard Martin Jones, 2025-09-30 The Fifteenth Edition of Simpson s Forensic Medicine provides an overview of all that is relevant in

practice at the interface between medicine and law Its long standing reputation as one of the world s leading introductory texts in the field of forensic legal medicine is reflected by easy to read and informative text complemented by numerous colour images tables and figures Identifying current forensic legal medicine practice the comprehensive coverage encompasses all aspects of forensic pathology clinical forensic medicine legal medicine and highlights contemporary topics such as non fatal strangulation deaths in custody safeguarding intimate partner violence as well as subjects such as asphyxial deaths the impact of heat cold and electrical trauma and immersion and drowning Forensic legal medicine is intimately involved with the criminal and civil justice systems including family law Forensic legal medicine and forensic science are closely linked and for all those whose work brings them into contact with such subjects Simpson s provides an immediate source of accessible knowledge Students and practitioners in such settings can understand how their area of work or study interrelates and interacts with others in different settings Simpson s is therefore a textbook of choice for those studying forensic legal medicine or forensic science and for forensic practitioners law students law enforcement personnel healthcare professionals and judges coroners and other legal professionals *Textbook of Clinical Management of Club Drugs and Novel Psychoactive Substances* Dima Abdulrahim,Owen Bowden-Jones,2022-10-13 There are global concerns about the proliferation and misuse of club drugs and novel psychoactive substances yet we know little about their harms and research on clinical management and treatment remains limited This book fills the knowledge gap by providing a detailed overview of the research evidence available to date The book provides a framework that allows readers to understand this large number of new drugs using classifications based on primary psychoactive effect Within this framework the book provides detailed reviews of the more commonly used drugs Each chapter explores pharmacology patterns and mode of use acute and chronic harms and clinical interventions supported by research evidence An invaluable resource for clinical staff this book will support clinicians working in the emergency department substance misuse and addiction services mental health services primary care sexual health services and more It will also be of interest to academics and those developing drug policy

Handbook of Drug Interactions Ashraf Mozayani,Lionel Raymon,2011-09-18 Adverse drug reactions and interactions are still a major headache for healthcare professionals around the world The US Food and Drug Administration s database recorded almost 300 000 serious adverse events in 2009 alone of which 45 000 instances proved fatal This updated new edition of the indispensable guide to drug interactions incorporates fresh research completed since the book s original publication by Humana Press in 2004 Additions include a new section on pharmacogenomics a rapidly growing field that explores the genetic basis for the variability of responses to drugs This new material reviews important polymorphisms in drug metabolizing enzymes and applies the findings to forensic interpretation using case studies involving opiates as exemplars Existing chapters from the first edition have in most cases been updated and reworked to reflect new data or incorporate better tables and diagrams as well as to include recent drugs and formulations Recent references have been

inserted too The handbook features extra material on illicit drug use with a new chapter tackling the subject that covers cocaine amphetamines and cannabis among others The section on the central nervous system also deals with a number of drugs that are abused illicitly such as benzodiazepines opiates flunitrazepam and GHB while so called social drugs such as alcohol and nicotine are still discussed in the book s section on environmental and social pharmacology Focusing as before on detailed explanation and incorporating both pharmacokinetic and pharmacodynamic drug interactions this book will continue to be a lodestar for health and forensic professionals as well as students **Emergency Neurology** Karen L.

Roos,2021-08-08 This book is an invaluable resource for the diagnosis and management of neurological illnesses in the emergency setting It emphasizes the quality of prognosis to be contingent on the prompt management of these illnesses Emergency Neurology Second Edition follows the exemplary format of the previous edition with comprehensive chapters on every neurological emergency including stroke headache back pain dizziness vertigo syncope visual loss diplopia facial nerve palsy weakness altered mental status coma meningitis and encephalitis seizures and spinal cord disorders Chapters emphasize the clinical presentation diagnostic studies and management and include high quality images and tables that are invaluable for rapid diagnosis and therapy Building off its predecessor s success Emergency Neurology Second Edition is an excellent reference for neurologists emergency room physicians internists neurology residents emergency medicine residents and internal medicine residents Medical Toxicology of Natural Substances Donald G. Barceloux,2012-03-07 Interest and information in the field of medical toxicology has grown rapidly but there has never been a concise authoritative reference focused on the subjects of natural substances chemical and physical toxins drugs of abuse and pharmaceutical overdoses Medical Toxicology of Natural Substances finally gives you an easily accessible resource for vital toxicological information on foods plants and animals in key areas in the natural environment

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