

Review

Abuse of Prescription Drugs in the Context of Novel Psychoactive Substances (NPS): A Systematic Review

Fabrizio Schifano, Stefania Chiappini * , John M. Corkery and Amira Guirguis

Psychopharmacology, Drug Misuse and Novel Psychoactive Substances Research Unit, School of Life and Medical Sciences, University of Hertfordshire, Hertfordshire AL10 9AB, UK; f.schifano@herts.ac.uk (F.S.); j.corkery@herts.ac.uk (J.M.C.); a.guirguis2@herts.ac.uk (A.G.)

* Correspondence: stefaniachiappini90@gmail.com; Tel.: +44-(0)1707-281053

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Abstract: Recently, a range of prescription and over-the-counter drugs have been reportedly used as Novel Psychoactive Substances (NPS), due to their potential for abuse resulting from their high dosage/idiosyncratic methods of self-administration. This paper provides a systematic review of the topic, focusing on a range of medications which have emerged as being used recreationally, either on their own or in combination with NPS. Among gabapentinoids, pregabalin may present with higher addictive liability levels than gabapentin, with pregabalin being mostly identified in the context of opioid, polydrug intake. For antidepressants, their dopaminergic, stimulant-like, bupropion activities may explain their recreational value and diversion from the therapeutic intended use. In some vulnerable clients, a high dosage of venlafaxine ('baby ecstasy') is ingested for recreational purposes, whilst the occurrence of a clinically-relevant withdrawal syndrome may be a significant issue for all venlafaxine-treated patients. Considering second generation antipsychotics, olanzapine appears to be ingested at very large dosages as an 'ideal trip terminator', whilst the immediate-release quetiapine formulation may possess proper abuse liability levels. Within the image- and performance-enhancing drugs (IPEDs) group, the beta-2 agonist clenbuterol ('size zero pill') is reported to be self-administered for aggressive slimming purposes. Finally, high/very high dosage ingestion of the anti-diarrhoeal loperamide has shown recent increasing levels of popularity due to its central recreational, anti-withdrawal, opiate-like effects. The emerging abuse of prescription drugs within the context of a rapidly modifying drug scenario represents a challenge for psychiatry, public health and drug-control policies.

Keywords: drug abuse; novel psychoactive substances; NPS; pharmacovigilance; prescribing drugs' abuse

1. Introduction

Novel Psychoactive Substances (NPS; 'legal highs' or 'research chemicals') are molecules designed to mimic the effects of legal traditional recreational drugs with intense psychoactive effects and virtual non-detectability in routine drug screenings. NPS include synthetic cannabinoids, cathinone derivatives, psychedelics phenethylamines, novel stimulants, synthetic opioids, tryptamine derivatives, phencyclidine-like dissociatives, piperazines, psychoactive plants/herbs and a range of prescribed medications [1]. The term NPS was first used by United Nations Office on Drugs and Crime (UNODC) to refer to "substances of abuse, either in a pure form or a preparation, that are not controlled by the 1961 Single Convention on Narcotic Drugs or the 1961 Convention on Psychotropic Substances, but which may pose a public health threat" [2]. At present, the emergence of NPS, typically from outside Western countries [3], represents a considerable public health challenge. Moreover, in order to circumvent the present controls and regulations, NPS are constantly diversifying

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The Cannabis Social Club Mafalda Pardal, 2022-07-29 As cannabis legalization reforms are underway there is some concern that non profit middle ground options may remain under researched and thus less visible This book offers an in depth account of one of the possible middle ground models for the supply of cannabis the Cannabis Social Club Cannabis Social Clubs CSCs are typically formal non profit associations of adult cannabis users who produce and distribute that substance close to or at cost price among themselves They constitute an user driven model for the supply of cannabis In most jurisdictions CSCs remain a grass roots unregulated initiative of groups of users but the model has been legalized in Uruguay and Malta and it has featured recent debates and legislative proposals in other countries This book brings together contributions from internationally respected scholars drawing on case studies empirical findings and policy reflections from a range of countries such as Belgium Canada New Zealand Spain Uruguay USA and a consideration of the CSC model from different disciplinary backgrounds Part one provides detailed analysis of where and how CSCs have been operating and a critical analysis of their key features and relationship with institutional actors Part two discusses several policy outcomes and proposes a design of a regulatory market as well as considering whether the CSC model might be suited for adaptation to the supply of other substances The Cannabis Social Club is important reading for academics in the fields of drug policy analysis criminology economics policy studies and anthropology It will also be of interest to policy makers journalists law enforcement personnel

Substance and Behavioral Addictions Steve Sussman, 2017-02-06 Substance and Behavioral Addictions Concepts Causes and Cures presents the concepts etiology assessment prevention and cessation of substance tobacco alcohol other drugs and food and behavioral gambling Internet shopping love sex exercise and work addictions The text provides a novel and integrative appetitive motivation framework of addiction while acknowledging and referencing multi level influences on addiction such as neurobiological cognitive and micro social and macro social physical environmental The book discusses concurrent and substitute addiction and offers prevention and treatment solutions which are presented from a more integrative perspective than traditional presentations This is an ideal text for upper level undergraduates and graduate students practitioners and researchers

[Background Papers on Drug Abuse Financing and Services Research](#) , 1991
Drugs, Brains, and Behavior , 2007 **Facing Addiction in America** Office of the Surgeon General, U.s. Department of Health and Human Services, 2017-08-15 All across the United States individuals families communities and health care systems are struggling to cope with substance use misuse and substance use disorders Substance misuse and substance use disorders have devastating effects disrupt the future plans of too many young people and all too often end lives prematurely and tragically Substance misuse is a major public health challenge and a priority for our nation to address The effects of substance use are cumulative and costly for our society placing burdens on workplaces the health care system families states

and communities The Report discusses opportunities to bring substance use disorder treatment and mainstream health care systems into alignment so that they can address a person's overall health rather than a substance misuse or a physical health condition alone or in isolation It also provides suggestions and recommendations for action that everyone individuals families community leaders law enforcement health care professionals policymakers and researchers can take to prevent substance misuse and reduce its consequences

Drugs and Social Context Telmo Mota Ronzani,2018-01-31 This book goes beyond the traditional approaches to drug use and discusses the issue from a societal perspective integrating contributions from different disciplines such as psychology public health anthropology law public policies and sociology to address specifically the social aspects of the phenomenon Given its complexity drug use demands a multidisciplinary approach from many different perspectives but despite the vast literature about the topic the majority of the books are restricted either to a purely medical perspective focused mainly on treatment techniques or to a criminological perspective focused mainly on drug trafficking and organized crime The social approach adopted in this volume challenges this dichotomy and analyzes both the social contexts to which drug use is related and the social and political consequences of the attitudes and policies adopted by governments and other social groups towards drug users addressing topics such as Drugs and poverty Drugs and gender Drugs and race Drugs and territory Stigmatization of drug use Prohibitionism Given its broad and innovative approach **Drugs and Social Context** Social Perspectives on the Use of Alcohol and Other Drugs will be of interest for researchers clinicians and other health professionals since the study of the social aspects of drug use is central to everyone who deals with the issue

Understanding the Demand for Illegal Drugs National Research Council,Division of Behavioral and Social Sciences and Education,Committee on Law and Justice,Committee on Understanding and Controlling the Demand for Illegal Drugs,2010-10-23 Despite efforts to reduce drug consumption in the United States over the past 35 years drugs are just as cheap and available as they have ever been Cocaine heroin and methamphetamines continue to cause great harm in the country particularly in minority communities in the major cities Marijuana use remains a part of adolescent development for about half of the country's young people although there is controversy about the extent of its harm Given the persistence of drug demand in the face of lengthy and expensive efforts to control the markets the National Institute of Justice asked the National Research Council to undertake a study of current research on the demand for drugs in order to help better focus national efforts to reduce that demand This study complements the 2003 book **Informing America's Policy on Illegal Drugs** by giving more attention to the sources of demand and assessing the potential of demand side interventions to make a substantial difference to the nation's drug problems **Understanding the Demand for Illegal Drugs** therefore focuses tightly on demand models in the field of economics and evaluates the data needs for advancing this relatively undeveloped area of investigation

Pathways of Addiction Institute of Medicine,Committee on Opportunities in Drug Abuse Research,1996-11-01 Drug abuse persists as one of the most costly and contentious problems on the nation's agenda

Pathways of Addiction meets the need for a clear and thoughtful national research agenda that will yield the greatest benefit from today's limited resources. The committee makes its recommendations within the public health framework and incorporates diverse fields of inquiry and a range of policy positions. It examines both the demand and supply aspects of drug abuse. Pathways of Addiction offers a fact-filled, highly readable examination of drug abuse issues in the United States, describing findings and outlining research needs in the areas of behavioral and neurobiological foundations of drug abuse. The book covers the epidemiology and etiology of drug abuse and discusses several of its most troubling health and social consequences, including HIV, violence, and harm to children. Pathways of Addiction looks at the efficacy of different prevention interventions and the many advances that have been made in treatment research in the past 20 years. The book also examines drug treatment in the criminal justice setting and the effectiveness of drug treatment under managed care. The committee advocates systematic study of the laws by which the nation attempts to control drug use and identifies the research questions most germane to public policy. Pathways of Addiction provides a strategic outline for wise investment of the nation's research resources in drug abuse. This comprehensive and accessible volume will have widespread relevance to policymakers, researchers, research administrators, foundation decisionmakers, healthcare professionals, faculty, and students and concerned individuals.

Under the Influence? Richard O. Lempert, Jacques Normand, Charles P. O'Brien, 1994 *Observation and Experiment* Paul Rosenbaum, 2017-08-14 A daily glass of wine prolongs life yet alcohol can cause life-threatening cancer. Some say raising the minimum wage will decrease inequality while others say it increases unemployment. Scientists once confidently claimed that hormone replacement therapy reduced the risk of heart disease but now they equally confidently claim it raises that risk. What should we make of this endless barrage of conflicting claims? *Observation and Experiment* is an introduction to causal inference by one of the field's leading scholars. An award-winning professor at Wharton, Paul Rosenbaum explains key concepts and methods through lively examples that make abstract principles accessible. He draws his examples from clinical medicine, economics, public health, epidemiology, clinical psychology, and psychiatry to explain how randomized control trials are conceived and designed, how they differ from observational studies, and what techniques are available to mitigate their bias. Carefully and precisely written, reflecting superb statistical understanding, all is communicated with the skill of a master teacher.

Stephen M. Stigler, author of *The Seven Pillars of Statistical Wisdom*, an excellent introduction. Well-written and thoughtful from one of causal inference's noted experts. *Journal of the American Statistical Association*. Rosenbaum is a gifted expositor; an outstanding introduction to the topic for anyone who is interested in understanding the basic ideas and approaches to causal inference. *Psychometrika*. A very valuable contribution. Highly recommended. *International Statistical Review*.

NIDA Research Monograph, 1976 Drug Abuse Meyer D. Glantz, Christine R. Hartel, 1999-01-01 Why are some people more likely than others to become addicted to drugs? What are the best ways to prevent and treat addiction? How should we shape our public policies about drug addiction? Scientific

perspectives on drug abuse are changing and this text provides a comprehensive introduction to current ideas and research about the causes of drug abuse and its prevention and treatment It also crystallizes the effects that research and public attitudes can and do have on our national drug abuse policies The theoretical perspectives presented here should be of interest to clinicians and scientists alike as well as anyone who cares about the societal effects of drug abuse

Results from the ... National Survey on Drug Use and Health National Survey on Drug Use and Health (U.S.),2008

Drugs Looking for Diseases R. Vos,2012-12-06 We all know how much time effort and money it takes to develop a new drug Hundreds of chemical compounds have to be synthesized and thousands of different activities in biology physiology pharmacology clinical investigation management and marketing have to be initiated and coordinated Each new drug starts a voyage of discovery through an unmapped terrain which is shrouded in mist and beset by pitfalls as Dr Rein Vos puts it in his absorbing inside story of the development of the beta adrenoceptor blocking agents and the calcium antagonists Indeed we know for example how long it took before the theory of Ahlquist of the alpha and beta adrenergic receptors was widely accepted Similarly it suffices to memorize shortly the difficulty of expanding the new concept of calcium antagonism through the national German boundaries into the world This shows how laborious and complex pharmaceutical progress is and we all will benefit from a deeper understanding of the process of innovative drug research

The Drug Expert Craig W. Stevens,2020-01-08 The Drug Expert A Practical Guide to the Impact of Drug Use in Legal Proceedings targets academic and industry pharmacologists pharmacology graduate students and professionals and students of affiliated disciplines such as pharmacy and toxicology Users will find it to be an invaluable reference for those involved in the field In addition pharmacists and others who increasingly serve as expert witnesses and toxicologists will find an array of very useful information Focuses on important topics for the consulting pharmacologist including prescription over the counter and illegal drugs and their effects on criminal and civil proceedings Details the how to aspects of being an expert witness in pharmacology by presenting real life cases and effective tips and experiences Includes several appendices such as a sample letter of engagement and fee schedule a litigation report a consulting invoice and valuable resources

Theories on Drug Abuse National Institute on Drug Abuse. Division of Research,1980

Drugs and the World Axel Klein,2008-11-15 Drug trafficking and consumption are among the most pressing global issues of our time and the approaches to alleviating them are myriad and complex With Drugs and the World Axel Klein takes a remarkably broad approach to the issue exploring the importance of psychoactive substances to our health and culture To be properly understood drugs should not be simply examined from a negative point of view Klein argues From their centrality in religious rituals to their part in the growth of trade among nation states Klein reveals the pivotal role that drugs have played in the advancement of human society Klein then investigates the modern policies that define certain substances as drugs the link between drugs addiction and crime and the legal strategies and policies around the world that have largely failed to control global drug trafficking The book also

draws upon studies from the Caribbean West Africa and Eastern Europe to propose solutions that could reinforce the eroded power of state institutions law enforcement and the democratic process in addressing drug trafficking A timely and in depth analysis Drugs and the World offers an expertly written examination that will be essential for all those concerned with the role of drugs in the modern world

Drug Policy and the Public Good Thomas Babor,Jonathan Caulkins,Benedikt Fischer,David Foxcroft,Keith Humphreys,María Elena Medina-Mora,Isidore Obot,Jürgen Rehm,Peter Reuter,Robin Room,Ingeborg Rossow,John Strang,2018-07-03 Illegal psychoactive substances and illicit prescription drugs are currently used on a daily basis all over the world Affecting public health and social welfare illicit drug use is linked to disease disability and social problems Faced with an increase in usage national and global policymakers are turning to addiction science for guidance on how to create evidence based drug policy Drug Policy and the Public Good is an objective analytical basis on which to build global drug policies It presents the accumulated scientific knowledge on drug use in relation to policy development on a national and international level By also revealing new epidemiological data on the global dimensions of drug misuse it questions existing regulations and highlights the growing need for evidence based realistic and coordinated drug policy A critical review of cumulative scientific evidence Drug Policy and the Public Good discusses four areas of drug policy primary prevention programs in schools and other settings supply reduction programs including legal enforcement and drug interdiction treatment interventions and harm reduction approaches and control of the legal market through prescription drug regimes In addition it analyses the current state of global drug policy and advocates improvements in the drafting of public health policy Drug Policy and the Public Good is a global source of information and inspiration for policymakers involved in public health and social welfare Presenting new research on illicit and prescription drug use it is also an essential tool for academics and a significant contribution to the translation of addiction research into effective drug policy

The Use of Drugs in Food Animals National Research Council,Institute of Medicine,Food and Nutrition Board,Board on Agriculture,Committee on Drug Use in Food Animals,Panel on Animal Health, Food Safety, and Public Health,1999-01-12 The use of drugs in food animal production has resulted in benefits throughout the food industry however their use has also raised public health safety concerns The Use of Drugs in Food Animals provides an overview of why and how drugs are used in the major food producing animal industries poultry dairy beef swine and aquaculture The volume discusses the prevalence of human pathogens in foods of animal origin It also addresses the transfer of resistance in animal microbes to human pathogens and the resulting risk of human disease The committee offers analysis and insight into these areas Monitoring of drug residues The book provides a brief overview of how the FDA and USDA monitor drug residues in foods of animal origin and describes quality assurance programs initiated by the poultry dairy beef and swine industries Antibiotic resistance The committee reports what is known about this controversial problem and its potential effect on human health The volume also looks at how drug use may be minimized with new approaches in genetics nutrition and animal

management **Non-medical and illicit use of psychoactive drugs** Suzanne Nielsen,Raimondo Bruno,Susan Schenk,2017-08-11 This volume is devoted to descriptions of non medical as well as medical uses for some drugs that have typically or not so typically been associated with drug abuse One major objective of this book is to identify costs and benefits of drug abuse The book highlights drugs including 3 4 methylenedioxymethamphetamine MDMA cannabinoids opioids and methylphenidate because of their well documented potential for abuse and provides new and emerging evidence of their potential to treat some chronic disease states alongside the potential consequences of exposure

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