

Club Drugs and Novel Psychoactive Substances

Over the last decade many hundreds of new psychoactive drugs have emerged onto illicit markets. This flood of new drugs has led to clinicians being unsure of the rapidly emerging changing evidence base and uncertain of the best approaches to assessment and clinical management. This book provides a concise, accessible summary of these emerging drugs. By categorizing the hundreds of new drugs by their predominant psychoactive effect – sedative, stimulant and hallucinogenic – the book helps clinicians to manage a drug they are unfamiliar with by using their experience of other drugs with similar psychoactive properties. Written for clinicians from across the frontline, from A&E staff to drug treatment professionals, the authors draw on numerous clinical examples from their own clinical experiences to illustrate aspects of assessment and management. Club drugs and novel psychoactive substances will continue to challenge clinicians and this handbook provides readers with an invaluable introduction to this complex area.

Owen Bowden-Jones is Consultant in Addiction Psychiatry and Founder of the CNWL Club Drug Clinic, London, and Honorary Professor at University College London. He is Chair of the Advisory Council on the Misuse of Drugs and National Clinical Adviser to the Alcohol, Drugs and Tobacco division at Public Health England.

Dima Abdulrahim is Programme Manager and Principal Researcher for the NEPTUNE Project for the Club Drug Clinic, Central and North West London NHS Foundation Trust. She has been working in the drug treatment field for over 30 years.





Club Drugs and Novel Psychoactive Substances

The Clinician's Handbook

Owen Bowden-Jones

Central North West London NHS Foundation Trust

Dima Abdulrahim

Central North West London NHS Foundation Trust





More Information

CAMBRIDGEUNIVERSITY PRESS

University Printing House, Cambridge CB2 8BS, United Kingdom

One Liberty Plaza, 20th Floor, New York, NY 10006, USA

477 Williamstown Road, Port Melbourne, VIC 3207, Australia

314-321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre, New Delhi - 110025, India

79 Anson Road, #06-04/06, Singapore 079906

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of education, learning, and research at the highest international levels of excellence.

www.cambridge.org

Information on this title: www.cambridge.org/9781911623090

DOI: 10.1017/9781911623106

© Cambridge University Press 2020

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press.

First published 2020

Printed in the United Kingdom by TJ International Ltd, Padstow Cornwall

A catalogue record for this publication is available from the British Library.

Library of Congress Cataloging-in-Publication Data

Names: Bowden-Jones, Owen, author. | Abdulrahim, Dima, author.

Title: Club drugs and novel psychoactive substances : a clinical handbook / Owen Bowden-Jones, Central North West London NHS Foundation Trust, Dima Abdulrahim, Central North West London NHS Foundation Trust.

Description: Cambridge, United Kingdom; New York, NY: Cambridge University Press, 2020. | Includes bibliographical references and index.

Identifiers: LCCN 2020026282 (print) | LCCN 2020026283 (ebook) | ISBN 9781911623090 (paperback) | ISBN 9781911623106 (ebook)

Subjects: LCSH: Designer drugs. | Psychotropic drugs. | Drugs of abuse.

Classification: LCC RM316 .B69 2020 (print) | LCC RM316 (ebook) | DDC 615.7/88-dc23

LC record available at https://lccn.loc.gov/2020026282

LC ebook record available at https://lccn.loc.gov/2020026283

ISBN 978-1-911-62309-0 Paperback

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-party internet websites referred to in this publication and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.

•••••



Every effort has been made in preparing this book to provide accurate and up-to-date information which is in accord with accepted standards and practice at the time of publication. Although case histories are drawn from actual cases, every effort has been made to disguise the identities of the individuals involved. Nevertheless, the authors, editors and publishers can make no warranties that the information contained herein is totally free from error, not least because clinical standards are constantly changing through research and regulation. The authors, editors and publishers therefore disclaim all liability for direct or consequential damages resulting from the use of material contained in this book. Readers are strongly advised to pay careful attention to information provided by the manufacturer of any drugs or equipment that they plan to use.



Contents

Acknowledgements	Х

Part I — Introduction	on
-----------------------	----

- 1 Introduction 1
 - 1.1 Why Read This Book? 1
 - 1.2 Aim and Structure 2
- What Are Club Drugs and NPS and Why Are They Important? 3
 - 2.1 What Are Club Drugs and NPS? 3
 - 2.2 Club Drugs 4
 - 2.3 Novel Psychoactive Substances 4
- 3 A Brief History of NPS Production and Distribution 5
 - 3.1 Overview 5
 - 3.2 Successive Generations of NPS 8
 - 3.3 Change and Continuity 8
 - 3.4 Case Study: A Dynamic Market – the Rise and Fall of Mephedrone in the UK 8
 - 3.5 Evolving Drug Markets: New versus Traditional 9
 - 3.6 The Role of the Internet 9

- 4 Classification Framework for Club Drugs and NPS 11
- 5 The Clinical Challenge of Club Drugs and NPS 13
 - 5.1 Initial Assessment of the Health Harms of Club Drugs and NPS 13
 - 5.2 Categorising Adverse Health Harms of Club Drugs and NPS 14
 - 5.3 Five Specific Clinical Challenges in Assessing Adverse Health Effects of Club Drugs and NPS 16
 - 5.4 Overview of the Management of Club Drug and NPS Harms 17

Part II — Stimulant Drugs

- Stimulant Drugs: Introduction 23
 - 6.1 Introduction and Brief Pharmacology of Stimulant Drugs 23
 - 6.2 Desired Effects of Stimulants by User 24
 - 6.3 Adverse Health Harms of Stimulants 24
 - 6.4 Acute Health Harms of Stimulants 24

vi



Cambridge University Press 978-1-911-62309-0 — Club Drugs and Novel Psychoactive Substances

Owen Bowden-Jones, Dima Abdulrahim Frontmatter More Information

arms 39
31111 3 39
nine-
sis 39
f Acute
om
42
emsex-
у
nine :ts 44
f Health Deated
Jealeu
DMA and
nd Brief
nd Brief 46
46
46
46 ses of
46 ses of ise of
46 ses of ise of UK 46
46 ses of ise of UK 46 f MDMA
ses of UK 46 f MDMA ugs 47
ise of UK 46 f MDMA ugs 47
ise of UK 46 f MDMA ugs 47
ise of UK 46 f MDMA ugs 47
ise of UK 46 f MDMA ugs 47
y 46 ses of lise of UK 46 f MDMA ugs 47 48 s by
y 46 ses of lise of UK 46 f MDMA ugs 47 48 s by
y 46 ses of lise of UK 46 f MDMA ugs 47 48 s by
y 46 ses of lise of UK 46 f MDMA ugs 47 48 s by

Contents

vii



More Information

viii	Contents	
	10.10 Health Harms from Repeated Use 52	13.6 Management of Acute Health Harms 67
	10.11 Management of Health	13.7 Health Harms from
	Harms from Repeated	Repeated Use 69
	Use 53	13.8 Management of Health
		Harms from Repeated
11	Stimulant Drugs: Synthetic Cathinones 54	Use 70
	11.1 Introduction 54	14 Depressant Drugs: Fentanyl,
	11.2 Brief Pharmacology 54	Fentanyl Analogues and
	11.3 Modes of Use 55	Other Opioid NPS 71
	11.4 Desired Effects by	14.1 Introduction 71
	User 56	14.2 Fentanyl and Fentanyl
	11.5 Acute Health Harms 56	Analogues 72
	11.6 Management of Acute	14.3 Other Opioid NPS
	Health Harms 56	(Excluding
	11.7 Health Harms from	Fentanyls) 73
	Repeated Use 56	14.4 Case Study: Fentanyl
	11.8 Case Study:	Overdose 75
	Mephedrone	14.5 Management of Acute
	Injecting 57	Health Harms of
	11.9 Management of Harms	Fentanyls and Other
	from Repeated Use 59	Opioid NPS 76
		14.6 Health Harms from
	Part II — Depressant Drugs	Repeated Use of
		Fentanyls and Other
12	Depressant Drugs:	Opioid NPS 76
	Introduction 61	14.7 Management of Health
13	Donuscont Duine	Harms from Repeated
13	Depressant Drugs: Gamma-Hydroxybutyrate	Use of Fentanyls and
	(GHB) and	Other Opioid NPS 76
	Gamma-Butyrolactone	15 Depressant Drugs:
	(GBL) 62	Benzodiazepine NPS 78
	13.1 Introduction and Brief	15.1 Introduction and Brief
	Pharmacology 62	Pharmacology 78
	13.2 Modes of Use 62	15.2 Modes of Use 79
	13.3 Desired Effects by	15.3 Desired Effects by
	User 63	User 79
	13.4 Acute Health Harms 63	15.4 Acute Health Harms 79
	13.5 Case Study: Acute GHB	15.5 Management of Acute
	Withdrawal 65	Health Harms 80



More Information

15.6 Health Harms from	17.7 Management of Acute
Repeated Use 80	Health Harms 93
15.7 Management of Health	17.8 Health Harms from
Harms from Repeated	Repeated Use 94
Use 80	17.9 Case Study: SCRA
	Dependence in
16 Depressant Drugs: Ketamine	Homeless
and Its Analogues 81	Population 95
16.1 Introduction 81	17.10 Management of Health
16.2 Brief Pharmacology 81	Harms from Repeated
16.3 Modes of Use 82	Use 96
16.4 Desired Effects by	
User 82	Dart V Hallusina sans
16.5 Acute Health Harms 83	Part V — Hallucinogens
16.6 Management of Acute	18 Hallucinogens 99
Health Harms 83	18.1 Introduction 99
16.7 Health Harms from	18.2 Brief Pharmacology 99
Repeated Use 84	18.3 Modes of Use 100
16.8 Case Study: Ketamine	18.4 Desired Effects by
Bladder 85	User 101
16.9 Management of Health	18.5 Acute Health
Harms from Repeated	Harms 102
Use 87	18.6 Management of Acute
	Health Harms 103
Part IV — Synthetic	18.7 Health Harms from
Cannabinoid Receptor Agonists	Repeated Use 103
Camilabiliola Neceptor Agonists	18.8 Case Study:
17 Synthetic Cannabinoid	Hallucinogen Persisting
Receptor Agonists	Perception
(SCRAs) 89	Disorder 104
17.1 Introduction 89	18.9 Management of Health
17.2 Brief	Harms from Repeated
Pharmacology 89	Use 106
17.3 Modes of Use 90	
17.4 Desired Effects by	19 Concluding Remarks 107
User 91	
17.5 Acute Health	
Harms 91	
17.6 Case Study: 'Spice	References 109
Attack' in Prison 02	Index 124

Attack' in Prison 92

Contents

ix



Acknowledgements

Thanks to Sarah Finley for her assistance with the critical care sections.