

# 



Negative symptoms in schizophrenia: reconsidering evidence and focus in clinical trials van de Meer et al

### Should intramuscular clozapine be adopted into mainstream clinical practice? Bhattacherjee et al

Risk of mortality and complications in patients with schizophrenia and diabetes mellitus: population-based cohort study Chan et al Clinical, societal and personal recovery in schizophrenia spectrum disorders across time: states and annual transitions Castelein et al



ISSN 0007 - 1250

## The British Journal of Psychiatry

Patricia Casey (Ireland)

Rakesh K Chadda (India)

### Editor Kamaldeep Bhui CBE

### **Deputy Editors**

Matthew Broome William Lee (Research Integrity Editor) Gin Malhi (Editorials Editor) Giles Newton-Howes (Reviews Editor) Rachel Upthegrove

### **Associate Editors**

Shehzad Ali Ionathan Bisson Elena Garralda Joseph Hayes Philipp Homan Edgar Jones Helen Killaspy Anne Lingford-Hughes Philip McGuire Francis Anthony O'Neill Zena Samaan Jan Scott James Shearer Bart Sheehan Najma Siddigi Mustafa Soomro

### **Editorial Advisors**

Sarah Byford John Geddes Martin Knapp

### International **Editorial Board**

Regi T. Alexander (UK) Allan Beveridge (UK) (Book Reviews Editor) Alec Buchanan (USA) Colin Campbell (UK) (Correspondence Editor) (Analysis Editor) Mary Cannon (Ireland)

Andrew Cheng (Taiwan) Erika Comasco (Sweden) John Cookson (UK) Pim Cuijpers (The Netherlands) David Curtis (UK) Kimberlie Dean (Australia) Colin Drummond (UK) Emilio Fernandez Egea (UK) Sinan Guloksuz (The Netherlands) Peter Haddad (UK) Judith Harrison (UK) Madelyn Hicks (USA) Cyrus Ho (Singapore) Louise Howard (UK) Khalida Ismail (UK) Navneet Kapur (UK) Eirini Karyotaki (The Netherlands) Kenneth Kaufman (USA) Steve Kisely (Australia) Ivan Koychev (UK) Rajeev Krishnadas (UK) Stephen Lawrie (UK) Glvn Lewis (UK) Kwame McKenzie (Canada) Marco Mula (UK) Roger Mulder (New Zealand) Aileen O'Brien (UK) (Analysis Editor) Claire de Oliveira (UK) Martin Orrell (UK) Femi Oyebode (UK) (Book Reviews Editor) (Executive Contents Editor) Sarah Peters (UK) Michael Phillips (China) Mariana Pinto Da Costa (UK) Alexandra Pitman (UK)

Frauke Schultze-Lutter (Germany) Sukhwinder Shergill (UK) Emily Simonoff (UK) Athula Sumathipala (UK) Fric Tan (Australia) Nori Takei (Japan) Leila Tarokh (Switzerland) Derek Tracy (UK) (Editor for Public Engagement and Education) Stuart Watson (UK) Richard Williams (UK) Kiriakos Xenitidis (UK) (Correspondence Editor) Allan Young (UK) Melvyn Zhang Weibin (Singapore) Yaara Zisman-Ilani (USA) **Trainee Editors** 

Katherine Adlington Angharad de Cates Laura McWhirter

### Statistical Advisors

Eva Petkova Min Yang

### Staff

Head of Publishing Elizabeth Hay Managing Editor Alice Shuttleworth Senior Publications Coordinator Dianndra Roberts

### Past Editors

Eliot Slater 1961-72 Edward H. Hare 1973-77 John L. Crammer 1978-83 Hugh L. Freeman 1984-93 Greg Wilkinson 1994-2003 Peter Tyrer 2003-13

The British Journal of Psychiatry is published monthly by the Royal College of Psychiatrists (a charity registered in England and Wales (228636) and in Scotland (SC038369)). The Journal publishes original work in all fields of psychiatry. Manuscripts for publication should be submitted online at https://mc.manuscriptcentral.com/bjpsych.

Thomas Schulze (Germany)

Rahul Rao (UK)

(Highlights Editor)

All papers in this journal are peer-reviewed. No person is permitted to take any role in the peer-review of a paper in which they have an interest, defined as follows: fees or grants from, employment by, consultancy for, shared ownership in, or any close relationship with, an organisation whose interests, financial or otherwise, may be affected by the publication of the paper

### Subscriptions

British Journal of Psychiatry (ISSN 0007-1250) is published monthly. The six issues starting January 2021 comprise Volume 218, the six issues starting July 2021 comprise Volume 219. Orders from non-members of the College, which must be accompanied by payment, may be sent to any bookseller or subscription agent or direct to the publishers: Cambridge University Press, Journals Fulfilment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK, email journals@cambridge.org; or in the USA, Canada and Mexico, to Cambridge University Press, Journals Fulfilment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA, email subscriptions\_newyork@cambridge.org. Japanese prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan.

The annual subscription prices (including delivery by air but excluding VAT) for Volumes 218/219 are as follows:

	INSTITUTIONS	INDIVIDUALS
Print and online	£589/\$1049	£475/\$739
Online only	£483/\$740	£308/\$481

Single issues are  $\pm 57$  (US\$101 in the USA, Canada and Mexico) plus postage EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Claims for missing issues should be made immediately on receipt of the subsequent issue

Queries from College members about missing or faulty copies should be sent to Customer Services, Cambridge University Press, email journals\_societies@cambridge.org, tel. +44 (0)1223 326070.

### USPS ID Statement

The British Journal of Psychiatry, ISSN 0007-1250, is published monthly by Cambridge University Press, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK. The US annual subscription price is \$976 print and online/\$688 online only for institutions and \$687 print and online/\$447 online only for individuals. Airfreight and mailing in the USA by agent named World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Periodicals postage paid at Brooklyn, NY 11256, US Postmaster; Send address changes to The British Journal of Psychiatry, World Container Inc. 150-15, 183rd Street, Jamaica, NY 11413, USA. Subscription records are maintained at Cambridge University Press, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK. Air Business Ltd is acting as our mailing agent.

### Online access

British Journal of Psychiatry is hosted on the Cambridge Core service at https://www.cambridge.org/core/journals/the-british-journal-ofpsychiatry

Information about the College's publications is available at https://www. rcpsych.ac.uk.

### Instructions to authors

Full instructions to authors are given at https://www.cambridge.org/core/ journals/the-british-journal-of-psychiatry/information/instructionscontributors

### Advertising

Correspondence and copy should be addressed to: Stephen H. P. Mell, Advertising Manager, PTM Publishers Ltd, 41 Hart Close, Uckfield, East Sussex TN22 2DA, UK (email advertising@ptmpublishers. com; tel. 020 8642 0162)

Founded by J. C. Bucknill in 1853 as the Asylum Journal and known as the Journal of Mental Science from 1858 to 1963

©The Royal College of Psychiatrists 2021. Unless so stated, material in the British Journal of Psychiatry does not necessarily reflect the views of the Editor or the Royal College of Psychiatrists. The publishers are not responsible for any error of omission or fact.

Printed in Great Britain by Henry Ling Limited, The Dorset Press, Dorchester, Dorset DT1 1HD

This journal issue has been printed on FSC™-certified paper and cover board FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests Please see www.fsc.org for information.





### BJPsych Contents

A25 Editorial Board

A27 Highlights of this issue

### **Editorials**

- **357** Should intramuscular clozapine be adopted into mainstream clinical practice? Shaun Bhattacherjee, Anthony Young, Niraj Ahuja and Steven Allen
- 359 Negative symptoms in schizophrenia: reconsidering evidence and focus in clinical trials Lisette van der Meer, Stefan Kaiser and Stynke Castelein

### **Papers**

361 Direction of the relationship between methamphetamine use and positive psychotic symptoms in regular methamphetamine users: evidence from a prospective cohort study Leanne Hides, Gary Chan, Sharon Dawe, Rebecca McKetin, David J.

Kavanagh, Ross McD Young, Maree Teesson and John B. Saunders

- 367 psychiatry in philosophy Fulfilling experience: Walter Benjamin George Ikkos
- 368 Clozapine treatment and risk of COVID-19 infection: retrospective cohort study Risha Govind, Daniela Fonseca de Freitas, Megan Pritchard, Richard D. Hayes and James H. MacCabe
- 374 psychiatry in literature Epidemics: black death terror in Florence, 1348 – by Giovanni Boccaccio Greg Wilkinson
- **375** Risk of mortality and complications in patients with schizophrenia and diabetes mellitus: population-based cohort study Joe Kwun Nam Chan, Corine Sau Man Wong, Philip Chi Fai Or, Eric Yu Hai Chen and Wing Chung Chang
- 383 Using epidemiological evidence to forecast population need for early treatment programmes in mental health: a generalisable Bayesian prediction methodology applied to and validated for first-episode psychosis in England

Keltie McDonald, Tao Ding, Hannah Ker, Thandiwe Rebecca Dliwayo, David P.J. Osborn, Pia Wohland, Jeremy W. Coid, Paul French, Peter B. Jones, Gianluca Baio and James B. Kirkbride 392 Associations between hemispheric asymmetry and schizophrenia-related risk genes in people with schizophrenia and people at a genetic high risk of schizophrenia

Yue Zhu, Shuai Wang, Xiaohong Gong, Elliot K. Edmiston, Suyu Zhong, Chao Li, Pengfei Zhao, Shengnan Wei, Xiaowei Jiang, Yue Qin, Jujiao Kang, Yi Wang, Qikun Sun, Gaolang Gong, Fei Wang and Yanqing Tang

**401 Clinical, societal and personal recovery in schizophrenia spectrum disorders across time: states and annual transitions** Stynke Castelein, Marieke E. Timmerman, PHAMOUS investigators, Mark van der Gaag, Ellen Visser

### Columns

- 409 Book Review
- 410 Contents of BJPsych Advances
- 411 Kaleidoscope

### Cover picture

175 At Jennie Richee. Everything is allright though storm continues by Henry Darger. ARS, NY and DACS, London 2021



Henry Darger (1892–1973) has posthumously become famous as a prominent Outsider Artist Born in Chicago

famous as a prominent Outsider Artist. Born in Chicago, his mother died when he was four, and when he was eight, his father was institutionalised. After this Henry was sent to an institution for the 'feeble-minded', in Lincoln, Illinois. His biographer, John MacGregor has suggested that he suffered from Asperger's Syndrome, but Tourette's Syndrome has also been put forward a possible diagnosis. Darger received no formal art training. Probably in 1912, he began writing and illustrating his magnum opus, which was to occupy him for the next twenty to thirty years. After his death, the 15,000 page fantasy manuscript was discovered in his room along with several hundred drawings and paintings illustrating the narrative, which was entitled The Story of the Vivian Girls, in What is Known as the Realms of the Unreal, of the Glandeco- Angelinian War Storm, caused by the Child Slave Rebellion. Darger's work contains disturbing juxtapositions of seemingly innocent childhood scenes, set in beautiful country sides and domestic interiors, with dark and sinister scenes of child torture and murder. all completed in primary colours. It has been suggested that his experiences as child in the Lincoln institution, where he was subjected to physical punishment, enforced labour and possibly sexual abuse, influenced the subject matter of his art in a major way.

### Text by Allan Beveridge

We are always looking for interesting and visually appealing images for the cover of the Journal and would welcome suggestions or pictures, which should be sent to Dr Allan Beveridge, British Journal of Psychiatry, 21 Prescot Street, London, E1 8BB, UK or bjp@rcpsych.ac.uk.