# Cambridge Quarterly of Healthcare

## **Ethics**

A Quarterly Journal Devoted to Engaging a World Community of **Bioethicists** 

Cambridge

Quarterly of

Healthcare

Ethics

A Quarterly Journal Devoted to Engaging a World Community of Bioethicists

#### **EDITORS**

Thomasine Kushner, University of California, Berkeley kushnertk@gmail.com

#### ASSOCIATE EDITORS

James Giordano, Georgetown University Medical Center

#### **EDITORIAL BOARD**

Yves Agid, Institut du Cerveau et de la Moelle Épinière, France Martin Buijsen, Erasmus University, Rotterdam, The Netherlands

Benjamin Capps, Dalhousie University, Canada

John Danaher, National University of Ireland, Galway, Ireland

Joseph J. Fins, Weill Medical College of Cornell University, New York, USA

Paul J. Ford, Department of Bioethics, Cleveland Clinic, USA

Grant Gillett, University of Otago Medical School, New Zealand

John Harris, University of Manchester, United Kingdom

Stephen Hauser, University of California, San Francisco, USA

Göran Hermerén, Lund University, Sweden

Judy Illes, The University of British Columbia, Canada

Philipp Kellmeyer, University of Freiburg Medical Center, Germany

Karola Kreitmair, University of Wisconsin-Madison, USA

David Lawrence, University of Edinburgh, United Kingdom

Guillermo Palchik, California Pacific Medical Center, San Francisco, USA

#### The Cambridge Bioethics Education Working Groups: Connecting Bioethics Educators Around the World

The purpose of the Cambridge Bioethics Education Working Groups is to encourage people and institutions to work together on developing bioethics education in their countries. These focus groups invite others to share their information and develop mutual projects to further how bioethics is taught in universities, hospitals, and for the general public.

https://www.cambridge.org/core/journals/cambridge-quarterly-of-healthcare-ethics/cambridge-bioethics-education-working-groups

#### **EDITORS**

Thomasine Kushner, PhD, University of California, Berkeley Steve Heilig, MPH, San Francisco Medical Society

#### ASSOCIATE EDITORS

Matti Häyry, Aalto University, Helsinki, Finland Tuija Takala, University of Helsinki, Finland

David C. Thomasma, PhD, Co-Editor, 1992-2002

#### EDITORIAL BOARD

Akira Akabayashi, Kyoto University, Japan

William Andereck, Medicine and Human Values, California Pacific Medical Center, San Francisco, USA

Martin Buijsen, Erasmus University, Rotterdam, The Netherlands

Arthur Caplan, NYU Langone Medical Center, New York, USA

Joseph J. Fins, Weill Medical College of Cornell University, New York, USA

Leonard M. Fleck, Center of Ethics and Humanities, Michigan State University, USA

Paul J. Ford, Cleveland Clinic, USA

James Giordano, Georgetown University Medical Center, USA

John Harris, University of Manchester, United Kingdom

David Lawrence, University of Edinburgh, United Kingdom

Gerrit K. Kimsma, Vrije University of Amsterdam, The Netherlands

Guillermo Palchik, California Pacific Medical Center, USA

Rosamond Rhodes, Mount Sinai School of Medicine, New York, USA

Doris Schroeder, University of Central Lancaster, United Kingdom

Pavel Tichtschenko, Institute of Philosophy, Academy of Science, Moscow, Russia

Mark R. Wicclair, University of Pittsburgh & West Virginia University, USA

Neuroethics Network/Cambridge Consortium for Bioethics Education/International Bioethics Retreat http://www.icmbioethics.com/cambridge-home.html

### Cambridge Quarterly of Healthcare Ethics

Volume 30, Number 4, October 2021

CONTENTS

<i>-</i>	T 1	
Guest	F.d1to	mal

Guest Editorial: Brain Organoids and Consciousness: Late Night Musings Inspired by Lewis Thomas Joseph J. Fins	557
The Great Debates	
Introducing "The Great Debates" Thomasine Kushner and Gil Palchik	562
Does a Mind Need a Body? ALEX MCKEOWN AND DAVID R. LAWRENCE	563
Should Cerebral Organoids be Used for Research if They have the Capacity for Consciousness? HENRY T. "HANK" GREELY AND KAROLA V. KREITMAIR	575
Should We Use Technology to Merge Minds? John Danaher and Sven Nyholm	585
Articles	
Socrates in the fMRI Scanner: The Neurofoundations of Morality and the Challenge to Ethics Jon Rueda	604
Well-Being After Severe Brain Injury: What Counts as Good Recovery? MACKENZIE GRAHAM AND LORINA NACI	613
Trading Vulnerabilities: Living with Parkinson's Disease before and after Deep Brain Stimulation SARA GOERING, ANNA WEXLER AND ERAN KLEIN	623
'When the Music's Over' then 'Dancing with a Partner Will Help You Find the Beat' Grant Gillett and Mary Butler	631
The Birth of Naloxone: an Intellectual History of an Ambivalent Opioid Laura Kolbe and Joseph J. Fins	637
Goldwater After Trump Jacob M. Appel and Akaela Michels-Gualtieri	651
Cyberbiosecurity: An Emerging Field that has Ethical Implications for Clinical Neuroscience Dov Greenbaum	662

#### Contents continued

Closed-Loop Brain Devices in Offender Rehabilitation: Autonomy, Human Rights, and Accountability SJORS LIGTHART, TIJS KOOIJMANS, THOMAS DOUGLAS, AND	
Gerben Meynen	669
Some Methodological Issues in Neuroethics: The Case of Responsibility and Psychopathy	
Luca Malatesti and John McMillan	681
Limitations Using Neuroimaging to Reconstruct Mental State after a Crime	
Michael J. Vitacco, Alynda M. Randolph,	
Rebecca J. Nelson Aguiar, Megan L. Porter Staats	694
Lady Justice may be Blind, but is She Racist? Examining Brains, Biases, and Behaviors Using Neuro-Voir Dire	
Zaev D. Suskin	702
Departments and Columns	
Symptoms of Consciousness	
Nina	
Robert A. Burton	710
The Spark	
ROBERT A. BURTON	712
Truth Be Damned	
ROBERT A. BURTON	713

EDITORIAL OFFICE: Editorial correspondence, including manuscript submission, should be addressed to Thomasine Kushner, PhD. To facilitate review, please submit manuscripts as electronic copy, preferably in MS Word, to kushnertk@gmail.com. Books for review should be sent to Greg Loeben, 2532 N. 4th Street, #442 Flagstaff, AZ 86004. Books for review on neuroethics should be sent to Thomasine Kushner, 1001 Bridgeway #A1, Sausalito, CA 94965.

SUBSCRIPTION INFORMATION: Cambridge Quarterly of Healthcare Ethics (ISSN 0963-1801) is published quarterly in January, April, July, and October by Cambridge University Press, One Liberty Plaza, Floor 20, New York, NY 10006/ Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK. Annual subscription rates for volume 30 (2021) USA, Canada, and Mexico/Elsewhere: Institutional rates, print and online: \$714/£444; online only: \$567/£353; print only: \$708/£442. Individual rates, print only: \$148/£90; online only: \$118/£72. Single part: \$204/£127. Students and retirees: \$125/£79. American Society for Bioethics and Humanities members: \$105/£62. Prices include postage. Subscription offices: One Liberty Plaza, Floor 20, New York, NY 10006, USA; outside the USA, Canada, and Mexico: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK. Claims for missing issues should be made immediately after receipt of the next issue. Cambridge Quarterly of Healthcare Ethics and other Cambridge journals can be found at http://journals.cambridge.org.

Cambridge Quarterly of Healthcare Ethics is a partner journal of the American Society for Bioethics and Humanities.

Periodicals postage paid at New York, NY and additional mailing offices. POSTMASTER: Send address changes in the USA, Canada, and Mexico to Cambridge Quarterly of Healthcare Ethics, Cambridge University Press, One Liberty Plaza, Floor 20, New York, NY 10006, USA. Send address changes elsewhere to Cambridge Quarterly of Healthcare Ethics, Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK.

© Cambridge University Press 2021. All rights reserved. No part of this publication may be reproduced, in any form or by any means, elec tronic, photocopying, or otherwise, without permission in writing from Cambridge University Press. Policies, request forms, and contacts are available at: http://www.cambridge.org/rights/permissions/permission.htm Cambridge Quarterly of Healthcare Ethics is indexed in Index Medicus and in the ASSIA, ISI, MEDLINE, Philosopher's Index, and Proquest databases.

Permission to copy (for users in the USA) is available from Copyright Clearance Center, http://www.copyright.com, email: info@copyright.com.