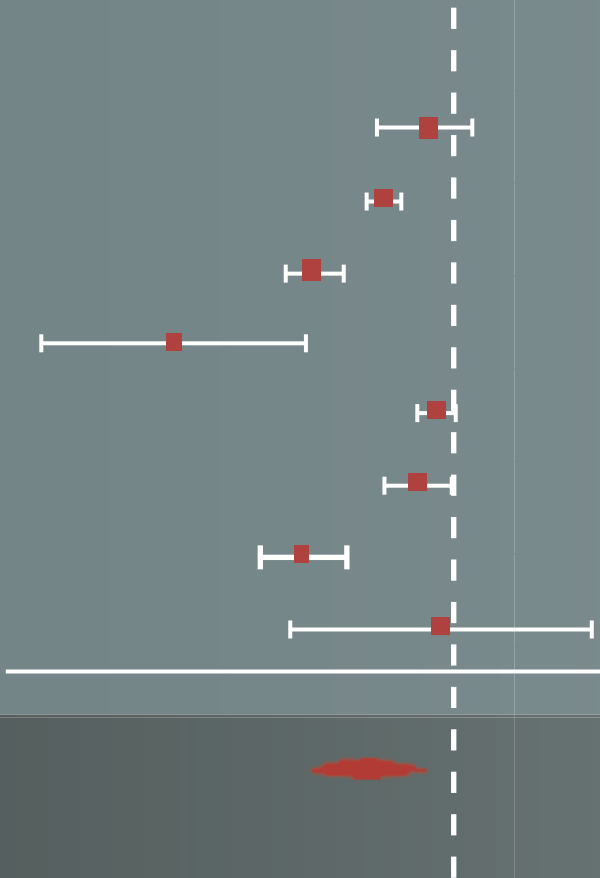




International Journal of

# Technology Assessment in Health Care



# International Journal of Technology Assessment in Health Care

Official Journal of Health Technology Assessment International

## Editor-in-Chief

**Wendy Babidge, BApp Sci (Hons), Ph.D., Grad Dip Bus, GAICD**

General Manager Research, Audit and Academic Surgery, Royal Australasian College of Surgeons

Adjunct Associate Professor, University of Adelaide

199 Ward St, North Adelaide South Australia 5006, Australia

Email: wendy.babidge@adam.com.au

**Aims and Scope:** The *International Journal of Technology Assessment in Health Care* has as its specific scope of interest the generation, evaluation, diffusion, and use of health care technology. It addresses the diverse audience of health care providers within medicine, public health, nursing, and the allied health professions; decision makers in government, industry, and health care organizations; and the scholarly disciplines such as ethics, economics, law, history, sociology, psychology, and engineering. The journal aims to fill the needs of those interested in the complexities of interaction between people and technology; technology as a force in social and organizational change; and technology as it is created, produced, applied, and paid for. It examines descriptively and analytically the effects of technology as perceived from the vantage point of different academic disciplines and policy-making organizations and examines methods necessary to conduct studies and evaluations of technology.

The focus of the journal is the international health care community. The experience of different countries in their encounter with health care technology, viewed comparatively, is invaluable to understanding its effects. Further, it is important to establish ties with the scholars, governments, and private institutions concerned with health care technology so that the experiences and learning of the international community in its parts can benefit the whole. The use of technology in health care has created some of the major dilemmas in society today. The journal serves as a forum for the wide range of professionals interested in the assessment of medical technology, its consequences for patients, and its impact on society.

**Publishing, Advertising, and Subscription Offices:** Cambridge University Press, One Liberty Plaza, Floor 20, New York, NY 10006, U.S.A. (for U.S.A., Canada, and Mexico); or Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK (for U.K. and elsewhere).

**2018 Subscription Information:** *International Journal of Technology Assessment in Health Care* (ISSN 0266-4623) is

published bimonthly in February, April, June, August, October, and December 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 institutional subscription rates for Volume 34 (2018): Institutions online only US \$593.00, and online only UK and elsewhere £341.00. Individuals online only US \$343.00, and online only UK and elsewhere £193.00. Single part: US \$114.00 in the U.S.A., Canada and Mexico; UK £65.00 and elsewhere. Online only for all institutions. Print editions ceased in 2014. Back volume prices are available upon request. *International Journal of Technology Assessment in Health Care* and other Cambridge journals can be found at <http://journals.cambridge.org>

### © Cambridge University Press 2018

All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic 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>

Permission to copy (for users in the U.S.A.) is available from Copyright Clearance Center, <http://www.copyright.com>, email: [info@copyright.com](mailto:info@copyright.com).

Postmaster: Send address changes in the U.S.A. and Canada to: *International Journal of Technology Assessment in Health Care*, Journals Department, Cambridge University Press, One Liberty Plaza, Floor 20, New York, NY 10006, U.S.A. Send address changes elsewhere to: *International Journal of Technology Assessment in Health Care*, Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK.

**Founding Editors:** Egon Jonsson and Stanley J. Reiser

## CONTENTS

### Commentaries

- 434** Cost, context, and decisions in health economics and Health Technology Assessment  
*Anthony J. Culyer*
- 442** Aging and Health Technology Assessment: An idea whose time has come  
*Don Juzwishin, Heather McNeil, Jeonghoon Ahn, Yingyao Chen, Americo Cicchetti, Naoto Kume, Laura Brooks and Paul Stolee*

### Methods

- 447** Ethics in Health Technology Assessment: A systematic review  
*Christian A. Bellemare, Pierre Dagenais, Suzanne K.-Bédard, Jean-pierre Béland, Louise Bernier, Charles-Étienne Daniel, Hubert Gagnon, Georges-Auguste Legault, Monelle Parent and Johane Patenaude*
- 458** Is the EUNETHTA HTA core model<sup>®</sup> fit for purpose? Evaluation from an industry perspective  
*Marlene Gyldmark, Kristian Lampe, Jörg Ruof, Johannes Pöhlmann, Ansgar Hebborn and Finn Børlum Kristensen*

### Assessments

- 464** Suitability of current evaluation frameworks for use in the Health Technology Assessment of mobile medical applications: A systematic review  
*Magdalena Ruth Moshi, Rebecca Tooher and Tracy Merlin*
- 476** Quality and use of free smoking cessation apps for smartphones  
*Dybesh Regmi, Clive Tobutt and Sami Shaban*
- 481** Cost-effectiveness of interventions based on physical activity in the treatment of chronic conditions: A systematic literature review  
*Marlène Guillon, Lise Rochaix and Jean-Claude K. Dupont*
- 498** Differentiation of health-related quality of life outcomes between five disease areas: Results from an international survey of patients  
*Olina Efthymiadou, Jean Mossman and Panos Kanavos*
- 507** How bar coded medication administration technology affects the nurse–patient relationships: An ethnographic study  
*Marcel Boonen, Frans J.H. Vosman and Alistair Niemeijer*

### Policies

- 514** Early dialogue in Europe: Perspectives on value, challenges, and continuing evolution  
*Lina Balaisyte, Angelika Joos and Mickaël Hiligsmann*
- 519** Multi-criteria decision analysis as a decision-support tool for drug evaluation: A pilot study in a pharmacy and therapeutics committee setting  
*Úrsula Baños Roldán, Xavier Badia, Jose Antonio Marcos-Rodríguez, Luis de la Cruz-Merino, Jaime Gómez-González, Ana Melcón-de Dios, María de la O Caraballo-Camacho, Jaime Cordero-Ramos, María Dolores Alvarado-Fernández, José Manuel Galiana-Auchel and Miguel Ángel Calleja-Hernández*

- 527** Sharing and collecting hospital-based Health Technology Assessment reports internationally: Is an extensive participation of stakeholders realistic?  
*Joost Verbeek, Mickaël Hiligsmann, Americo Cicchetti and Marco Marchetti*

#### **Erratum**

- 535** Evidence required by health technology assessment and reimbursement bodies evaluating diagnostic or prognostic algorithms that include omics data – ERRATUM  
*Alexandre Barna, Teresita Cruz-Sanchez, Karen Berg Brigham, Cong-Tri Thuong, Finn Boerlum Kristensen and Isabelle Durand-Zaleski*

#### **Addendum**

- 536** Environmental impact assessment of a health technology: A scoping review – ADDENDUM  
*Julie Polisena, Gino De Angelis, David Kaunelis, Iñaki Gutierrez-Ibarluzea and Mackenzie Shaheen*