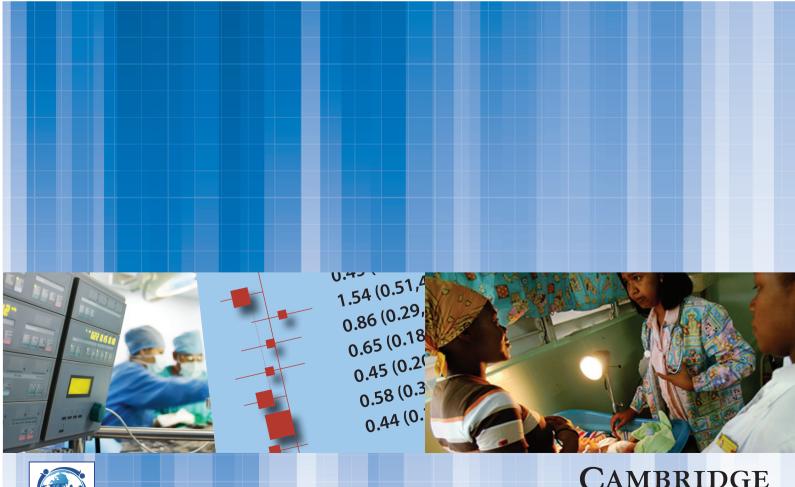
ISSN: 0266-4623

UNIVERSITY PRESS

International Journal of

90912 Published online by Cambridge University Press

Technology Assessment in Health Care



International Journal of Technology Assessment in Health Care

Official Journal of Health Technology Assessment International

Editor-in-Chief

Marjukka Mäkelä, M.D., Ph.D., M.Sc.

Research Professor, FINOHTA (Finnish Office for Health Technology Assessment) at THL (National Institute for Health and Welfare)
P.O. Box 30
00271 Helsinki, Finland
Telephone: +358 20 610 7290; Fax: +358 20 610 7278

Email: marjukka.makela@thl.fi

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, 32 Avenue of the Americas, New York, NY 10013-2473, *U.S.A.* (for U.S.A., Canada, and Mexico); or Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, *UK* (for U.K. and elsewhere).

2010 Subscription Information: *International Journal of Technology Assessment in Health Care* (ISSN 0266-4623) is published quarterly in January, April, July, and October by Cambridge University Press, 32 Avenue of the Americas, New York, NY 10013-2473; Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK. Annual institutional subscription rates for Volume 26 (2010): Print and online US

\$515.00, online only US \$431.00, and print only US \$467.00 in the U.S.A., Canada, and Mexico; Print and online UK £286.00, online only UK £243.00, and print only UK £260.00 elsewhere. Individual rates: Print and online US \$245.00 and print only US \$223.00 in the U.S.A., Canada, and Mexico; Print and online UK £143.00 and print only UK £123.00 elsewhere. Prices include postage; air mail or registered mail is extra. Single part: US \$120.00 in the U.S.A., Canada, and Mexico; UK £67.00 elsewhere. 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

Copyright © Cambridge University Press, 2010

All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying, or otherwise, without permission in writing from Cambridge University Press. Permission inquiries from the USA, Mexico, and Canada should be addressed to the New York office of Cambridge University Press http://www.cambridge.org/us/information/rights/contacts/newyork. htm; permission inquiries from elsewhere should be addressed to the Cambridge office http://www.cambridge.org/uk/information/rights/contacts/cambridge.htm; permission inquiries from Australia and New Zealand should be addressed to the Melbourne office http://www.cambridge.org/aus/information/contacts_melbourne.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. Specific written permission must be obtained for republication; contact the nearest Cambridge University Press office.

Periodicals postage paid at New York, NY, and additional mailing offices.

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, 100 Brook Hill Drive, West Nyack, NY 10994-2133, *U.S.A.* Send address changes elsewhere to: *International Journal of Technology Assessment in Health Care*, Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK.

Founding Editors: Egon Jonsson and Stanley J. Reiser

International Journal of Technology Assessment in Health Care

Volume 26 2010 Number 1

CONTENTS

EDITORIALS

1 Flagship Ahoy Marjukka Mäkelä

ASSESSMENTS

- 3 A cost-utility analysis of psychoanalysis versus psychoanalytic psychotherapy Caspar C. Berghout, Jolien Zevalkink, and Leona Hakkaart-van Roijen
- 11 Cost-utility of a cardiovascular prevention program in highly educated adults: Intermediate results of a randomized controlled trial
 - Nele Jacobs, Silvia Evers, Andre Ament, and Neree Claes
- 20 Willingness to pay for allergy-vaccination among Danish patients with respiratory allergy
 Karin Dam Petersen, Dorte Gyrd-Hansen, Allan Linneberg, Ronald Dahl, Jørgen Nedergaard Larsen, Henning
 Løwenstein, and Christian Kronborg
- 30 Prognostic value, clinical effectiveness, and cost-effectiveness of high-sensitivity C-reactive protein as a marker for major cardiac events in asymptomatic individuals: A health technology assessment report Petra Schnell-Inderst, Ruth Schwarzer, Alexander Göhler, Norma Grandi, Kristin Grabein, Björn Stollenwerk, Jennifer Manne, Volker Klauss, Uwe Siebert, and Jürgen Wasem
- **40** Cost-effectiveness of screening for colorectal cancer in France using a guaiac test versus an immunochemical test *Catherine Lejeune, Vincent Dancourt, Patrick Arveux, Claire Bonithon-Kopp, and Jean Faivre*
- 48 Cost-effectiveness analysis of the optimal threshold of an automated immunochemical test for colorectal cancer screening: Performances of immunochemical colorectal cancer screening *Célia Berchi, Lydia Guittet, Véronique Bouvier, and Guy Launoy*
- 54 Cost-effectiveness of real-world infliximab use in patients with rheumatoid arthritis in Sweden Ingrid Lekander, Fredrik Borgström, Patrick Svarvar, Tryggve Ljung, Cheryl Carli, and Ronald F. van Vollenhoven
- 62 Cost-effectiveness of angiotensin-converting enzyme inhibitors and angiotensin II receptor blockers in newly diagnosed type 2 diabetes in Germany Charles Christian Adarkwah and Afschin Gandjour

POLICIES

- 71 Are Key Principles for improved health technology assessment supported and used by health technology assessment organizations?
 - The International Working Group for HTA Advancement, Peter J. Neumann, Michael F. Drummond, Bengt Jönsson, Bryan R. Luce, J. Sanford Schwartz, Uwe Siebert, and Sean D. Sullivan
- 79 Coverage with Evidence Development: Applications and issues Paul Trueman, David L. Grainger, and Kristen E. Downs

METHODS

86 Using clinical databases to evaluate healthcare interventions Sheila Harvey, Kathy Rowan, David Harrison, and Nick Black

- 95 Usefulness of a short-term register for health technology assessment where the evidence base is poor Hannah Patrick, Sally Gallaugher, Carolyn Czoski-Murray, Robert Wheeler, Marc Chattle, Mirella Marlow, Georgios Lyratzopoulos, and Bruce Campbell
- 102 Comparison of the assessment of five new interventional procedures in different countries Jonathan Plumb, Georgios Lyratzopoulos, Helen Gallo, and Bruce Campbell
- 110 Time to full publication of studies of anticancer drugs for breast cancer, and the potential for publication bias *Petra Harris, Andrea Takeda, Emma Loveman, and Debbie Hartwell*
- 117 Do the 15D scores and time trade-off (TTO) values of hospital patients' own health agree? *Tarja Honkalampi and Harri Sintonen*
- 124 Relative effectiveness assessment of listed drugs (REAL): A new method for an early comparison of the effectiveness of approved health technologies

 Bruno Falissard, Valérie Izard, Bertrand Xerri, Gilles Bouvenot, François Meyer, and Laurent Degos

International Journal of Technology Assessment in Health Care

Editor-in-Chief

Marjukka Mäkelä, M.D., Ph.D., M.Sc.

Research Professor, FINOHTA (Finnish Office for Health Technology Assessment) at THL (National Institute for Health and Welfare), P.O. Box 30, 00271 Helsinki, Finland Telephone: +358 20 610 7290: Fax: +358 20 610 7278 Email: marjukka.makela@thl.fi

Founding Editors: Egon Jonsson and Stanley J. Reiser

Editorial Board

- Toni Ashton, Ph.D., University of Auckland, Auckland, New Zealand Christel Bahtsevani, R.N., Ph.D., Malmö University, Malmö, Sweden David Banta, M.D., M.P.H., University of Maastricht, Maastricht, The Netherlands
- Jeremiah A. Barondess, M.D., New York Academy of Medicine, New York, New York, U.S.A
- Renaldo N. Battista, M.D., Sc.D., University of Montreal, Montreal, Quebec, Canada
- Paul Blomqvist, M.D., Ph.D., The Karolinska Institute, Stockholm, Sweden
- John Bridges, Ph.D., Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, U.S.A.
- James Brophy, M.D., Ph.D., McGill University, Montreal, Quebec,
- Reinhard Busse, Dr. med., M.P.H., F.F.P.H., Technische Universität, Berlin, Berlin, Germany
- Martin Buxton, B.A. (Soc. Sci.), Brunel University, London, United
- Jie Chen, Ph.D., School of Public Health, Fudan University, Shanghai,
- Irina Cleemput, Ph.D., KCE—Belgian Health Care Knowledge Center, Brussels, Belgium
- Michael F. Drummond, Ph.D., University of York, York, United Kingdom
- Karen Facey, Ph.D., B.Sc.(Hons), C.Stat., Hon.M.F.P.H., University of Glasgow, Glasgow, Scotland
- David Feeny, Ph.D., Kaiser Permanente Northwest, Portland, Oregon,
- Pedro Gallo, M.A., M.Sc., Ph.D., University of Barcelona, Barcelona,
- Clifford Goodman, Ph.D., The Lewin Group, Falls Church, Virginia,
- David Hailey, Ph.D., University of Queensland, Brisbane, Queensland, Australia
- Akinori Hisashige, M.D., Ph.D., Institute of Healthcare Technology Assessment, Tokushima, Japan
- Pwee Keng Ho, M.B.B.S., M.Med., F.A.M.S., Ministry of Health, Singapore
- Maarten J. IJzerman, Ph.D., University of Twente, Enschede, The Netherlands
- Philip Jacobs, Ph.D., University of Alberta, Edmonton, Alberta, Canada
- Bengt Jönsson, Ph.D., Stockholm School of Economics, Stockholm, Sweden
- Minna Kaila, M.D., Ph.D., National Institute for Health and Welfare, Helsinki, Finland
- Gisele Kobelt, Ph.D., European Health Economics SAS, Mulhouse,
- Frédéric Lavoie, M.Sc., Ph.D., Pfizer, Quebec, Canada Nguyen Hoang Long, M.D., Ph.D., Ministry of Health, Hanoi, Vietnam M. David Low, M.D., Ph.D., University of Texas, Houston, Texas, U.S.A.

- Guy Maddern, Ph.D., M.S., M.D., University of Adelaide, ASERNIP-S Royal Australasian College of Surgeons, Stepney, South Australia,
- Sumit R. Majumdar, M.D., M.P.H., University of Alberta, Edmonton, Alberta, Canada
- Deborah Marshall, Ph.D., University of Calgary, Calgary, Alberta, Canada
- Ruairidh Milne, M.B., B.S., F.P.H., University of Southampton, Southampton, United Kingdom
- Elias Mossialos, M.D., Ph.D., London School of Economics and Political Science, London, United Kingdom
- Duncan Neuhauser, Ph.D., Case Western Reserve University, Cleveland, Ohio, U.S.A.
- Tom Noseworthy, M.D., M.Sc., M.P.H., University of Calgary, Calgary, Alberta, Canada
- Wija J. Oortwijn, Ph.D., Macro & Sector Policies, Rotterdam, The Netherlands
- Andrew D. Oxman, M.D., M.Sc., Norwegian Knowledge Centre for the Health Services, Oslo, Norway
- James Raftery, Ph.D., University of Southampton's School of Medicine, Southampton, United Kingdom
- John-Arne Rottingen, Ph.D., Norwegian Knowledge Centre for the Health Services, Oslo, Norway
- Adolfo Rubinstein, M.D., M.Sc., Ph.D., Institute for Clinical
- Effectiveness and Health Policy, Buenos Aires, Argentina Laura Sampietro-Colom, M.D., Ph.D., Office for Assessment of Innovations and New Technologies, Barcelona, Spain
- Joshua Shemer, M.D., Tel Aviv University, Israeli Center for Health Technology Assessment, Sheba Medical Center, Tel Hashomer, Israel
- Uwe Siebert, Ph.D., UMIT-University for Health Sciences, Medical Informatics and Technology; Hall, Austria
- Harri Sintonen, Ph.D., University of Helsinki, Finnish Office for Health Technology Assessment, Helsinki, Finland
- Jane E. Sisk, Ph.D., National Center for Health Statistics, Centers for Disease Control and Prevention, Hyattsville, Maryland, U.S.A.
- Rod Taylor, M.Sc., Ph.D., Peninsula Medical School, Universities of Exeter & Plymouth, Exeter, United Kingdom
- Sean Tunis, M.D., M.Sc., Center for Medical Technology Policy, San Francisco, California, and Johns Hopkins University and Stanford University School of Medicine, Baltimore, Maryland, U.S.A.
- Gert Jan van der Wilt, Ph.D., Vrije Universiteit, Amsterdam and Radboud University Medical Centre, Nijmegen, The Netherlands
- Milton C. Weinstein, Ph.D., Harvard School of Public Health, Boston, Massachusetts, U.S.A.
- David K. Whynes, Ph.D., School of Economics, University of Nottingham, Nottingham, United Kingdom
- Bertrand Xerri, M.D., French National Agency for Health, Saint Denis, Paris. France

Terhi Ilonen, HCS, Production and Manuscript Assistant