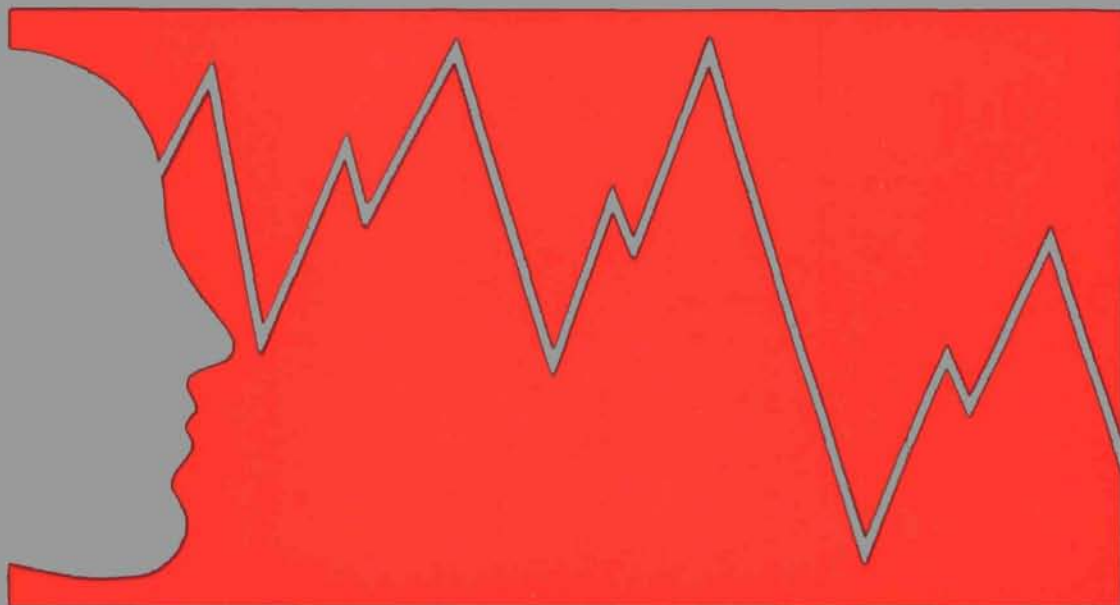


Vol. 12

Fall 1996

No. 4

International Journal of
**TECHNOLOGY
ASSESSMENT
IN HEALTH CARE**



CAMBRIDGE
UNIVERSITY PRESS

International Journal of Technology Assessment in Health Care

Official Journal of the International Society for Technology Assessment in Health Care

Editors

Egon Jonsson, Ph.D.

Professor

The Karolinska Institute and the
Swedish Council on Technology
Assessment in Health Care

P.O. Box 16158

103 24 Stockholm, Sweden

(tel.) 46 8 611-1913

(fax) 46 8 611-7973

Stanley J. Reiser, M.D., Ph.D.

Professor, Program on Humanities
and Technology in Health Care
The University of Texas – Houston
Health Science Center

P.O. Box 20708

Houston, Texas 77225, U.S.A.

(tel.) 713 792-5140

(fax) 713 792-5141

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, 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 will be 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 will serve 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.

Membership in the International Society for Technology Assessment in Health Care:

Members receive the journal at individual rates and can participate in the Society's activities, including the annual meeting. Individual dues for 1996, including the journal, are US \$95, payable to Cambridge.

Publishing, Production, and Advertising

Offices: Cambridge University Press, 40 West 20th Street, New York, NY 10011, U.S.A.

Subscription Offices: Cambridge University Press, 110 Midland Avenue, Port Chester, NY 10573, U.S.A. (for U.S.A., Canada, and Mexico); or Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, England (for U.K. and elsewhere).

1996 Subscription Information: *International Journal of Technology Assessment in Health Care* (ISSN 0266-4623) is published quarterly. Annual institutional subscription rates for Volume 12 (1996): US \$142.00 in the U.S.A., Canada, and Mexico; UK £92.00 elsewhere. Individual rates: US \$96.00 in the U.S.A., Canada, and Mexico; UK £54.00 elsewhere. Prices include postage and insurance; air mail or registered mail is extra. Back volume prices are available upon request.

Copyright © 1996 Cambridge University Press

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.

Photocopying Information (for users in the U.S.A.): The Item-Fee Code for this publication (0266-4623/96 \$7.50 + .10) indicates that copying for internal or personal use beyond that permitted by Sec. 107 or 108 of the U.S. Copyright Law is authorized for users duly registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the appropriate remittance of \$7.50 per article is paid directly to: CCC, 27 Congress Street, Salem, MA 01970. Specific written permission must be obtained for all other copying; 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, 110 Midland Avenue, Port Chester, NY 10573, U.S.A.

**International Journal of
Technology Assessment in Health Care**

Volume 12

1996

Number 4

CONTENTS

SPECIAL SECTION: THE ASSESSMENT OF PSYCHIATRY

Guest Editor: Claes-Göran Westrin

- Introduction: How to Understand the Assessment of Psychiatric
Technology 547
Claes-Göran Westrin
- Depressive Illness and the Possibilities of Somatic Antidepressant
Treatment 554
Björn Mårtensson
- Schizophrenia and Antipsychotic Somatic Treatment 573
Leif H. Lindström *Ing-Marie Wieselgren*
- Involuntary Commitment as a Psychiatric Technology 585
Virginia Aldigé Hiday
- Psychiatric Interventions for Prevention of Mental Disorders:
A Psychosocial Perspective 604
Odd Steffen Dalgard *Tom Sørensen*
Inger Sandanger *John Ivar Brevik*
- Assessing Psychiatric Care Settings: Hospitalization Versus Outpatient
Care 618
Mary L. Durham *John Q. La Fond*
- The Deinstitutionalization Movement in Italy: Ideological Thrust to
Cultural Error 634
Lola Romanucci-Ross
- Consumerism for Neurobiological Disorders: An Assessment 644
Richard E. Peschel *Enid Peschel*
- The Public's Role in the Evaluation of Health Care Technology:
The Conflict Over ECT 657
Elizabeth Heitman
- Technologies for the Delivery of Mental Health Care 673
David Mechanic

GENERAL ESSAYS

- Economic Analysis Alongside Clinical Trials: Bias in the Assessment of
Economic Outcomes 691
Leon B. Ellwein *Michael F. Drummond*

Results of the Economic Evaluation of the FIRST Study: A Multinational Prospective Economic Evaluation	698
<i>Kevin A. Schulman</i>	<i>Martin Buxton</i>
<i>Henry Glick</i>	<i>Mark Sculpher</i>
<i>Gladys Guzman</i>	<i>Janet Kong</i>
<i>Martin Backhouse</i>	<i>Jo Mauskopf</i>
<i>Larry Bell</i>	<i>John M. Eisenberg</i>
<i>and The FIRST Investigators</i>	
Can Resource Use Be Extracted from Randomized Controlled Trials to Calculate Costs? A Review of Smoking Cessation Interventions in General Practice	714
<i>Kathryn Rigby</i>	<i>Christopher Silagy</i>
<i>Alan Crockett</i>	
Costing Methods in the Canadian Literature on the Economic Evaluation of Health Care: A Survey and Assessment	721
<i>Philip Jacobs</i>	<i>John Bachynsky</i>
Economic Incentives and the Distribution of Extracorporeal Shock Wave Lithotripters and Linear Accelerators in Spain	735
<i>Pablo Lázaro</i>	<i>Kathryn Fitch</i>
RESEARCH NOTES	
Use of Microbiological Diagnostics and Antibiotics in Danish General Practice	745
<i>Henrik Toft Sørensen</i>	<i>Flemming Hald Steffensen</i>
<i>Henrik C. Schønheyder</i>	<i>Poul Grøn</i>
<i>Svend Sabroe</i>	
The Growing Dependency in Health Care: Recent Changes in Medical Technology Imports and Exports in Turkey	752
<i>Semih Şemin</i>	<i>Dilek Güldal</i>
TECHNOLOGY ASSESSMENT REPORTS	
Reports from the Health Council of the Netherlands	755
<i>Risk Assessment for Manual Lifting</i>	
<i>Sex Selection for Nonmedical Reasons</i>	
<i>Adverse Reactions of Vaccination: National Immunization Programme in 1993</i>	
<i>Heart Surgery and Interventional Cardiology for Adults</i>	
<i>The Prescription of Heroin to Heroin Addicts</i>	
Report from the Medical Technology and Practice Patterns Institute (MTPPI)	765
<i>Rational Use of Health Technologies: Mexico and the United States</i>	
Report from the Technology Assessment Unit of the German Federal Parliament	766
ANNOUNCEMENTS	769
CONTRIBUTORS	773

International Journal of Technology Assessment in Health Care

Editors

Egon Jonsson, Ph.D.
Professor
The Karolinska Institute and the
Swedish Council on Technology
Assessment in Health Care
P.O. Box 16158
103 24 Stockholm, Sweden

Stanley J. Reiser, M.D., Ph.D.
Professor, Program on Humanities
and Technology in Health Care
The University of Texas—Houston
Health Science Center
P.O. Box 20708
Houston, Texas, 77225, U.S.A.

Associate Editor

Elizabeth Heitman, Ph.D.
Program on Humanities and
Technology in Health Care
The University of Texas—Houston
Health Science Center
Houston, Texas, U.S.A.

Editorial Board

**Per Buch Andreasen, M.D.,
Ph.D.**
Department of
Gastroenterology and
Clinical Pharmacology
Gentofte University Hospital
Hellerup, Denmark

H. David Banta, M.D., M.P.H.
TNO
Leiden, Netherlands

Jeremiah A. Barondess, M.D.
President
New York Academy of Medicine
New York, New York, U.S.A.

Clyde Behney
Institute of Medicine
Washington, DC, U.S.A.

Bernard S. Bloom, Ph.D.
Research Professor
University of Pennsylvania
Medical School
Philadelphia, Pennsylvania,
U.S.A.

Els Borst-Eilers, M.D., Ph.D.
Minister of Health
The Hague, Netherlands

Robert Brook, M.D., Sc.D.
The Rand Corporation
UCLA Schools of Medicine
and Public Health
Santa Monica, California, U.S.A.

Roger Bulger, M.D.
President
Association of Academic
Health Centers
Washington, DC, U.S.A.

John P. Bunker, M.D., MRCP
CRC Clinical Trials Centre
King's College School of Medicine
and Dentistry
Rayne Institute
London, England

John L. Cova, Ph.D., M.P.H.
Private Consultant
Washington, DC, U.S.A.

Richard Cranovsky, M.D.
Institut Suisse de la
Santé Publique
Aarau, Switzerland

Luigi Donato, M.D.
Professor
Istituto de Fisiologia Clinica
CNR
Pisa, Italy

Robert Evans, Ph.D.
Professor
Department of Economics
University of British Columbia
Vancouver, British Columbia,
Canada

David Feeny, Ph.D.
Professor
McMaster University
Hamilton, Ontario, Canada

Alicia Granados, M.D.
Director
Catalan Agency for Health
Technology Assessment
Department of Health
and Social Security
Generalitat de Catalunya
Barcelona, Spain

Ruth S. Hanft, Ph.D., Sc.D. (Hon.)
Professor
Department of Health Services
Management and Policy
The George Washington
University
Washington, DC, U.S.A.

**Akinori Hisashige, M.D.,
Dr.Med.Sci.**
Professor
University of Tokushima
School of Medicine
Tokushima, Japan

Peter F. Hjort, M.D.
Professor
National Institute of Public
Health
Oslo, Norway

Naoki Ikegami, M.D.
Professor
Keio University School
of Medicine
Tokyo, Japan

Ted R. Mannen
Executive Vice President
Health Industry Manufacturers
Association
Washington, DC, U.S.A.

Jean-Paul Moatti
Institut Paoli Calmettes
INSERM
Marseille, France

Frederick Mosteller, Ph.D.
Director
Technology Assessment Group
Department of Health Policy
and Management
Harvard School of Public Policy
Boston, Massachusetts, U.S.A

Duncan Neuhauser, Ph.D.
Professor
Department of Community
Health
School of Medicine
Case Western Reserve
University
Cleveland, Ohio, U.S.A.

Miriam Orleans, Ph.D.
Professor Emerita
Department of Preventive
Medicine and Biometrics
University of Colorado
Health Sciences Center
Denver, Colorado, U.S.A.

Jorge Peña-Mohr, Ph.D.
Pan American Health
Organization
Pan American Sanitary Bureau
World Health Organization
Washington, DC, U.S.A.

Seymour Perry, M.D.
Director
WHO Collaborating Center on
Health Technology Assessment
Medical Technology and
Practice Patterns Institute
Washington, DC, U.S.A.

Frederick C. Robbins, M.D.
University Professor
Case Western Reserve
University
Cleveland, Ohio, U.S.A.

Tore Scherstén, M.D.
Professor
University of Göteborg
Department of Surgery
Göteborg, Sweden

Steven Schroeder, M.D.
President
Robert Wood Johnson Foundation
Princeton, New Jersey, U.S.A.

Mordechai Shani, M.D.
Director
The Chaim Sheba Medical Center
Tel-Hashomer, Israel

Jane E. Sisk, Ph.D.
Professor
Columbia University
School of Public Health
New York, New York, U.S.A.

Jacobo A. Tieffenberg, M.D.
President
ACINDES
Buenos Aires, Argentina

Ted Tyson
President
Tyson Consulting Group
Buffalo Grove, Illinois, U.S.A.

Johannes Vang, M.D., Ph.D.
Professor
University of Linköping
Linköping, Sweden

Judith L. Wagner, Ph.D.
Mayo Clinic
Rochester, Minnesota, U.S.A.

Norman Weissman, Ph.D.
Professor
University of Alabama
School of Medicine
Birmingham, Alabama, U.S.A.

Pamala Reed, MPH
Production Editor
The University of Texas—Houston
Health Science Center
Houston, Texas, U.S.A.