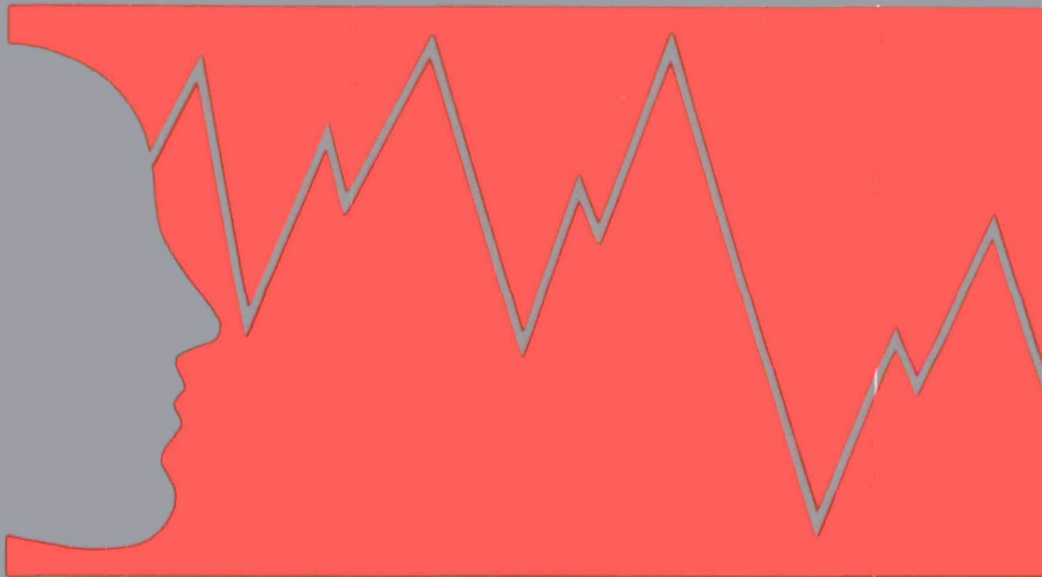


Vol. 1

1985

No. 4

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



Cambridge University Press

International Journal of Technology Assessment in Health Care

Editors

Egon Jonsson, Ph.D.
Professor
The Karolinska Institute
and Spri
Stockholm
Sweden

Stanley J. Reiser, M.D., Ph.D.
Professor, Program on Humanities
and Technology in Health Care
The University of Texas
Health Science Center at Houston
Houston, Texas
U.S.A.

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.

Each issue will contain a special section focussed on a particular topic, general articles, and regular feature sections.

Copying

This journal is registered with the Copyright Clearance Center, 21 Congress St., Salem, Mass. 01970. Organizations in the U.S.A. who are also registered with CCC may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. copyright law) subject to payment to CCC of the per-copy fee of \$5.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0266-4623/85/0000-0001 \$05.00.

For all other use, permission should be sought from the Cambridge or New York office of the Cambridge University Press.

Subscriptions

International Journal of Technology Assessment in Health Care (ISSN 0266-4623) is published quarterly in January, April, July and October. Four parts form a volume. The subscription price, which includes postage, of Volume 1 (1985) is US \$75.00 in the U.S.A. and Canada (£35.00 in the U.K. and rest of the world) for institutions; US \$40.00 (£18.00) for individuals. Single parts cost US \$21.00 (£10.00) plus postage. Institutional orders may be sent to a bookseller, subscription agent or direct to Cambridge University Press, 32 East 57th Street, New York, NY 10022, or outside the U.S. and Canada to Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU England. Individuals must order direct from the Press. Application to mail at second class postage rates pending at New York, NY and at additional mailing offices. Postmaster: send address changes in the U.S.A. and Canada to *International Journal of Technology Assessment in Health Care*, Cambridge University Press, 32 East 57th Street, New York, NY 10022.

Advertising

Inquiries about advertising should be sent to the Journals Promotion Department of the Cambridge or New York office of Cambridge University Press.

International Journal of Technology Assessment in Health Care

Volume 1 Number 4

1985

CONTENTS

- Editorial: Technology Assessment—Answers to All Questions? **779**
Felix Gutzwiller
- THE TECHNOLOGY OF PRENATAL CARE**
- Prenatal Care—An Introduction **783**
H. David Banta
Susanne Houd
Elbio Suarez Ojeda
- Health Services for Pregnancy in Europe **789**
Marsden G. Wagner
- Perinatal Health and Regional Activities of the Latin-American Center
for Perinatology and Human Development **799**
Ricardo Schwarcz
- Screening for Congenital Abnormalities **805**
Neil A. Holtzman
- Use of Different Systems for Classifying the Population at Risk **821**
Ubaldo Farnot
- Technology Assessment: Monitoring Fetal Growth **833**
José Villar
José M. Belizán
- Social Support and Perinatal Outcome **843**
Ann Oakley
- Health Education by Professionals During Pregnancy: Assessing Needs
and Effectiveness **855**
H. David Banta
Susanne Houd
- Obstetrical Care by Traditional Birth Attendance in Rural Areas of the
State of Ceará, Brazil **863**
José Galba Araújo
- GENERAL ESSAYS**
- Guidelines for Health Technology Assessment: The Efficacy,
Effectiveness and Efficiency of Neonatal Intensive Care **873**
Kathryn J. Bennett
David Feeny
Gordon H. Guyatt
Peter Tugwell
Michael F. Drummond

Intensive Care for the Aged in a Swedish Community Hospital: A Cost-effectiveness Analysis	893
<i>Johannes Vang</i>	
<i>Peter Karlsson</i>	
<i>Stefan Håkansson</i>	
 The Ethics and Feasibility of Randomized Trials of Diagnostic Technology: A Reply	 901
<i>Gordon H. Guyatt</i>	
<i>Michael F. Drummond</i>	
TECHNOLOGY ASSESSMENT REPORTS	
Consensus Development Conferences in the Netherlands	905
<i>A. F. Casparie</i>	
<i>J. J. E. van Everdingen</i>	
Adjuvant Chemotherapy for Breast Cancer	912
<i>National Institutes of Health</i>	
EMERGING TECHNOLOGY	
Future Aspects of Cancer Treatment: The Use of Monoclonal Antibodies	922
<i>Hakån Mellstedt</i>	
WORLD PERSPECTIVES	
927	
STATISTICS	
934	
Prenatal Care, Neonatal Intensive Care, and Infant Mortality	934
<i>Fred J. Hellinger</i>	
REVIEWS	
945	
SORCERER'S APPRENTICE	
953	
Adult Immunization: A Technology Whose Time Has Come	954
<i>Linda Johnson White</i>	
<i>Theodore C. Eickhoff</i>	
Contributors	963

International Journal of Technology Assessment in Health Care

Editors

Egon Jonsson, Ph.D.

Professor
The Karolinska Institute
and Spr
Stockholm
Sweden

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

Professor, Program on Humanities
and Technology in Health Care
The University of Texas
Health Science Center at Houston
Houston, Texas
U.S.A.

Associate Editors

Dr. Géza Adám

Ministry of Health of the Hungarian
People's Republic
Budapest
Hungary

John Hutton

Senior Research Fellow
University of York
York
England

Michael Anbar, Ph.D.

Professor
Department of Biophysical Sciences
State University of New York at Buffalo
Buffalo, New York
U.S.A.

Pia M. Jonsson, M.D.

The Karolinska Institute
The Karolinska Hospital
Stockholm
Sweden

H. David Banta, M.D., M.P.H.

Consultant
World Health Organization
The Hague
Netherlands

Samuel Korper, Ph.D.

Associate Director for Legislation
N.I.H.
Bethesda, Maryland
U.S.A.

Clyde Behney

Health Program Manager
Office of Technology Assessment
Congress of the United States
Washington, D.C.
U.S.A.

Seymour Perry, M.D.

Deputy Director
Institute for Health Policy Analysis
Georgetown University Medical Center
Washington, D.C.
U.S.A.

Jan E. Blanpain, M.D.

Professor
Department of Hospital Administration
and Medical Care Organization
Leuven
Belgium

Professor Tore Scherstén, M.D.

Dean, Faculty of Medicine
University of Göteborg
Department of Surgery
Göteborg
Sweden

Paul F. Gross

Director
Institute of Health Economics
and Technology Assessment
North Sydney
Australia

Barbara Stocking

Fellow
King's Fund College
London
England

Ruth S. Hanft

Health Policy Consultant
Washington, D.C.
U.S.A.

Dr. med. Stephan Tanneberger

Professor, Director
des Zentralinstituts für Krebsforschung
der Akademie der Wissenschaftern
der DDR
Berlin-Buch
DDR

Professor Johannes Vang M.D., Ph.D.
Regional Officer of Health Technology
Assessment
World Health Organization
Copenhagen
Denmark

Norman Weissman, Ph.D.
Director
Division of Extramural Research
National Center for Health Services
Research and Health Care Technology
Assessment
Rockville, Maryland
U.S.A.

Editorial Board

Faye G. Abdellah, R.N., Ed.D., Sc.D.
Deputy Surgeon General
Chief Nurse Officer
U.S. Public Health Service
Rockville, Maryland
U.S.A.

Dr. Tetsuzo Akutsu
Deputy President
National Cardiovascular Center
Osaka
Japan

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

John R. Ball, M.D., J.D.
Associate Vice President
American College of Physicians
Washington, D.C.
U.S.A.

Jeremiah A. Barondess, M.D.
Professor
Cornell University Medical College
New York, New York
U.S.A.

Aldo Bujevic
Professor
Zagreb Institute of Public Health
Zagreb
Yugoslavia

John P. Bunker, M.D.
Professor
School of Medicine
Stanford University
Stanford, California
U.S.A.

Dr. Carlos Canitrot
Sub-Secretario de Regulacion y Control
Ministerio de Salud Publica
y Medio Ambiente de Argentina
Buenos Aires
Argentina

Dr. Hesio Cordeira
Professor
Universidade Federal de Rio de Janeiro
Rio de Janeiro
Brazil

Henry Danielsson, M.D.
Professor, Secretary General
The Swedish Medical Research Council
Stockholm
Sweden

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

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

Uwe Faust
Professor
University of Stuttgart
Institute for Biomedical Technology
Federal Republic of Germany

Dr. José Laguna Garcia
Secretaria de Salubridad y
Asistencia de Mexico
Mexico City
Mexico

L.M.J. Groot
Professor
Faculty of Medicine
Riksuniversiteit Limburg
Maastricht
Netherlands

David Gunnarsson
Managing Director
Ríkisspítalar
Reykjavík
Iceland

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

Dr. med. Bruno Horisberger

Director
Center for Public Health
St. Gallen
Switzerland

Bryan Jennett, M.D.

Dean, Faculty of Medicine
University of Glasgow
Glasgow
Scotland

Kirsten Staehr Johansen, M.D., D.D.S.

Regional Officer for Appropriate
Technology for Health
World Health Organization
Copenhagen
Denmark

Jean Francoise la Cronique, M.D.

Professor
Rue de Leningrad 17
Paris
France

Professor Lechaim Naggan, M.D., Dr.P.H.

Dr. Herman Kessel Professor of Epidemiology
BGU Center for Health Services
Beer Sheva
Israel

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
Department of Preventive Medicine
and Biometrics
University of Colorado
Health Sciences Center
Denver, Colorado
U.S.A.

Dr. Masamitso Osima

President
The Medical Information System
Development Center
Tokyo
Japan

Frederick C. Robbins, M.D.

President
Institute of Medicine
National Academy of Sciences
Washington, D.C.
U.S.A.

Steven Schroeder, M.D.

Professor
Division of General Internal Medicine
University of California
School of Medicine
San Francisco, California
U.S.A.

Professor Henry Troupp, M.D.

Department of Neurosurgery
Topeliusgatan 5
Helsinki
Finland

A.H. Wilfried Wahba, Ph.D.

World Health Organization
Copenhagen
Denmark

Dr. Francisco J. Yepes, M.D., Ph.D.

Secretario General
Ministerio de Salud
Bogota
Columbia