Technologies for Managing Urinary Incontinence

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Technologies for Managing Urinary Incontinence

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This is an OTA Case Study that has been neither reviewed nor approved by the Technology Assessment Board.



HEALTH TECHNOLOGY CASE STUDY 33

Technologies for Managing Urinary Incontinence

JULY 1985

This case study was performed as part of OTA'S assessments:

Federal Policies and the Medical Devices Industry and Technology and Aging in America

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OTA Case Studies are documents containing information on a specific medical technology or area of application that supplements formal OTA assessments, The material is not normally of as immediate policy interest as that in an OTA Report, nor does it present options for Congress to consider.



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Preface

Technologies for Managing Urinary Incontinence is Case Study 33 in OTA'S Health Technology Case Study Series. This case study has been prepared in connection with two OTA projects: Federal Policies and the Medical Devices Industry and Technology and Aging in America. The former project, conducted by the Health Program, was requested by the House Committee on Energy and Commerce and its Subcommittee on Health and the Environment and the Senate Committee on Finance, Subcommittee on Health. The latter project, conducted by the Biological Applications Program, was requested by the House Select Committee on Aging, and the Senate Special Committee on Aging. A listing of other case studies in the series is included at the end of this preface, and endorsed by the House Committee on Education and Labor.

OTA case studies are designed to fulfill two functions. The primary purpose is to provide OTA with specific information that can be used in forming general conclusions regarding broader policy issues. The first 19 cases in the Health Technology Case Study Series, for example, were conducted in conjunction with OTA'S overall project on The Implications of Cost-Effectiveness Analysis of Medical Technology. By examining the 19 cases as a group and looking for common problems or strengths in the techniques of cost-effectiveness or cost-benefit analysis, OTA was able to better analyze the potential contribution that those techniques might make to the management of medical technology and health care costs and quality.

The second function of the case studies is to provide useful information on the specific technologies covered. The design and the funding levels of most of the case studies are such that they should be read primarily in the context of the associated overall OTA projects. Nevertheless, in many instances, the case studies do represent extensive reviews of the literature on the efficacy, safety, and costs of the specific technologies and as such can stand on their own as a useful contribution to the field.

Case studies are prepared in some instances because they have been specifically requested by congressional committees and in others because they have been selected through an extensive review process involving OTA staff and consultations with the congressional staffs, advisory panel to the associated overall project, the Health Program Advisory Committee, and other experts in

various fields. Selection criteria were developed to ensure that case studies provide the following:

- examples of types of technologies by function (preventive, diagnostic, therapeutic, and rehabilitative);
- examples of types of technologies by physical nature (drugs, devices, and procedures);
- examples of technologies in different stages of development and diffusion (new, emerging, and established);
- examples from different areas of medicine (e.g., general medical practice, pediatrics, radiology, and surgery);
- examples addressing medical problems that are important because of their high frequency or significant impacts (e. g., cost);
- examples of technologies with associated high costs either because of high volume (for lowcost technologies) or high individual costs;
- examples that could provide information material relating to the broader policy and methodological issues being examined in the particular overall project; and
- examples with sufficient scientific literature.

Case studies are either prepared by OTA staff, commissioned by OTA and performed under contract by experts (generally in academia), or written by OTA staff on the basis of contractors' papers.

OTA subjects each case study to an extensive review process. Initial drafts of cases are reviewed by OTA staff and by members of the advisory panel to the associated project. For commissioned cases, comments are provided to authors, along with OTA'S suggestions for revisions. Subsequent drafts are sent by OTA to numerous experts for review and comment. Each case is seen by at least 30 reviewers, and sometimes by 80 or more outside reviewers. These individuals may be from relevant Government agencies, professional societies, consumer and public interest groups, medical practice, and academic medicine. Academicians such as economists, sociologists, decision analysts, biologists, and so forth, as appropriate, also review the cases.

Although cases are not statements of official OTA position, the review process is designed to satisfy OTA'S concern with each case study's scientific quality and objectivity. During the various stages of the review and revision process, therefore, OTA encourages, and to the extent possible requires, authors to present balanced information and recognize divergent points of view.

Health Technology Case Study Series^a

1	ies No. OTA publication number ^b	Ser	ies No.	Case study title; author(s); OTA publication number ^b
•	Formal Analysis, Policy Formulation, and End-Stage Renal Disease;	18		and Cost Effectiveness of Psychotherapy;
	Richard A. Rettig (OTA-BP-H-9(1)) ^c		(OTA-BP-	Saxe (Office of Technology Assessment)
2	The Feasibility of Economic Evaluation of Diagnostic Pro-	19		of Four Common X-Ray Procedures;
2	cedures: The Case of CT Scanning;	19		Wagner (OTA-BP-H-9(19)) ^c
	Judith L. Wagner (OTA-BP-H-9(2))	20		Passive Restraint Systems in Automobiles: Issues
3	Screening for Colon Cancer: A Technology Assessment;	20	and Evidence	
•	David M. Eddy (OTA-BP-H-9(3))		_	E. Warner (OTA-BP-H-15(20)) ^f
4	Cost Effectiveness of Automated Multichannel Chemistry	21		ecommunications Devices for Hearing-Impaired
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	(OTA-BP-H-9(4))			H-16(21)) ⁸
5	Periodontal Disease: Assessing the Effectiveness and Costs of	22		eness and Costs of Alcoholism Treatment;
•	the Keyes Technique;			Saxe, Denise Dougherty, Katharine Esty,
	Richard M. Scheffler and Sheldon Rovin			elle Fine (OTA-HCS-22)
	(OTA-BP-H-9(5))	23		Efficacy, and Cost Effectiveness of Therapeutic
6	The Cost Effectiveness of Bone Marrow Transplant Therapy		Apheresis;	zincuoj, una cost zincureness er merapeuti
	and Its Policy Implications;		•	angenbrunner (Office of Technology Assessment)
	Stuart O. Schweitzer and C. C. Scalzi (OTA-BP-H-9(6))		(OTA-HC	
7	Allocating Costs and Benefits in Disease Prevention Programs:	24		Length of Hospital Stay: Their Relationship to
	An Application to Cervical Cancer Screening;		Health Outc	
	Bryan R. Luce (Office of Technology Assessment)		Mark R. C	Chassin (OTA-HCS-24)
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8	The Cost Effectiveness of Upper Gastrointestinal Endoscopy;			ousins and Leonard Duhl (OTA-HCS-25)
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10	The Costs and Effectiveness of Neonatal Intensive Care;		Earl P. Ste	einberg and Alan Cohen (OTA-HCS-27)
	Peter Budetti, Peggy McManus, Nancy Barrand, and	28	Intensive Ca	are Units (ICUs): Clinical Outcomes, Costs, and
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11	Benefit and Cost Analysis of Medical Interventions: The Case			Berenson (OTA-HCS-28)
	of Cimetidine and Peptic Ulcer Disease;	29	The Boston l	
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	Carol Korenbrot, Ann B. Flood, Michael Higgins,			is of Cerebrovascular Disease;
16	Noralou Roos, and John P. Bunker (OTA-BP-H-9(15))			Menken, Gordon H. DeFriese Thomas R. Oliver
16	The Costs and Effectiveness of Nurse Practitioners; Lauren LeRoy and Sharon Solkowitz (OTA-BP-H-9(16))		and II WIII	Litt (OTA-HCS-34)
17	• • • • • • • • • • • • • • • • • • • •			
17	Surgery for Breast Cancer: Karen Schachter Weingrod and Duncan Neuhauser			
	(OTA-BP-H-9(17))			
	able for sale by the Superintendent of Documents, U.S. Government			to The Implications of Cost-Effectiveness Analysis o

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mation. briginal publication numbers appear in parentheses.

°The first 17 cases in the series were 17 separately issued cases in *Background* Paper #2: Case Studies of Medical Technologies, prepared in conjunction with OTA'S August 1980 report The Implications of Cost-Effectiveness Analysis of Medical Technology. B_kgro_mdPaper #1 to OTA's May 1982 report Technology and Handi-

capped People.

8Background Paper #2 to Technology and Handicapped People.

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