Appendix F.—Description of Other Volumes of the Assessment

In addition to the present report, several back
ground papers were prepared in conjunction with
OTA’S assessment The Implications of Cost-Effe
tiveness Analysis of Medical Technology, and these
are available separately. The findings and options of
the assessment are in large part derived from the infor-
mination generated by the background efforts.

Background Paper #1: Methodological Issues and L.iterature Review, includes an in-depth examination
of the decisionmaking context and methodology dis-
cussions presented in this report. A critique of the lit-
erature, a bibliography of over 600 items, and ab-
stracts of over 70 studies and other articles are also
included.

In order to investigate the applicability of tech-
niques to assess the costs and benefits of medical
technology, 19 case studies were prepared. All 19 are
available individually. In addition, 17 of the cases are
available in a collected volume, Background Paper
#2: Case Studies of Medical Technologies. Some of
the cases represent formal cost-effectiveness analysis
(e.g., the case on bone marrow transplants), while
others represent net cost or “least cost” analysis (e.g.,
the case on certain respiratory therapies). Other cases
illustrate various issues such as the difficulty of con-
ducting cost-effectiveness analysis in the absence of
adequate efficacy and safety information (e.g., the
case on breast cancer surgery), or the role and impact
of formal analysis on policymaking (e.g., the case on
day-stage renal disease interventions). The 17 case
studies in Background Paper #2 and their authors are:

Artificial Heart
  Deborah P. Lubeck
  John P. Bunker

Automated Multichannel Chemistry Analyzers
  Milton C, Weinstein
  Laurie A. Pearlman

Bone Marrow Transplants
  Stuart O. Schweitzer
  C. C. Scalzi

Breast Cancer Surgery
  Karen Schachter
  Duncan Neuhauser

Cardiac Radionuclide Imaging
  William B. Stason
  Eric Fortess

Cervical Cancer Screening
  Bryan R. Luce

Cimetidine and Peptic Ulcer Disease
  Harvey V. Fineberg
  Laurie A. Pearlman

Colon Cancer Screening
  David M. Eddy

CT Scanning
  Judith L. Wagner

Elective Hysterectomy
  Carol Korenbrot
  Ann B. Flood
  Michael Higgins
  Noralou Roos
  John P. Bunker

End-Stage Renal Disease Interventions
  Richard A. Rettig

Gastrointestinal Endoscopy
  Jonathan A. Showstack
  Steven A. Schroeder

Neonatal Intensive Care
  Peter Budetti
  Peggy McManus
  Nancy Barrand
  Lu Ann Heinen

Nurse Practitioners
  Lauren LeRoy
  Sharon Solkowitz

Orthopedic Joint Prosthetic Implants
  Judith D. Bentkover
  Philip G. Drew

Periodontal Disease Interventions
  Richard M. Scheffler
  Sheldon Rovin

Selected Respiratory Therapies
  Richard M. Scheffler
  Morgan Delaney

The 18th case study is published separately as Back
ground Paper #3: The Efficacy and Cost-Effe
tiveness of Psychotherapy. That study assesses meth-
odological and substantive issues relating to the
scope of psychotherapy, the evaluation of psycho-
therapeutic efficacy, and the applicability of cost-effe-
tiveness and cost-benefit analysis in assessing psy-
chotherapy. It was prepared by Leonard Saxe on the
basis of a report prepared for OTA by Brian Yates
and Frederick Newman. The 19th case study was pre-
pared for OTA by Judith Wagner and is published
separately as Background Paper #5: Assessment of
Four Common X-Ray Procedures.

Background Paper #4: The Management of Health
Care Technology in Ten Countries is an analysis of
the policies, programs, and methods, including cost-effectiveness and cost-benefit techniques, that nine industrialized nations other than the United States use to manage the effects of medical technology. The experience of these nine countries in managing medical technology is compared to that of the United States. The paper on the United States and the comparative analysis were prepared by OTA staff, assisted by Louise Russell. The authors of the papers on the nine foreign countries are:

United Kingdom
  Barbara Stocking
Canada
  Jack Needleman
Australia
  Sydney Sax
Japan
  Joel Broida
France
  Rebecca Fuhrer
Germany
  Karin A. Dumbaugh

Netherlands
  L. M. J. Groot
Iceland
  David Gunnarson
  Duncan vB. Neuhauser
Sweden
  Erik H. G. Gaensler
  Egon Jonsson
  Duncan vB. Neuhauser

A related report prepared by OTA and reviewed by the Advisory Panel to the overall assessment is A Review of Selected Federal Vaccine and Immunization Policies. That study, published in September of 1979, examined vaccine research, development, and production; vaccine efficacy, safety, and cost-effectiveness; liability issues; and factors affecting the use of vaccines. Pneumococcal vaccine was used as a case study, and a cost-effectiveness analysis was performed.