

## Appendix B.— Bibliography on CEA/CBA

### Contents and Development of the Bibliography

The bibliography includes approximately 600 references for CEAs and CBAs on personal health services topics, reviews and comments on such literature, and discussions of CEA/CBA methodology directed specifically to health care professionals. It is intended to be as comprehensive as possible for the years 1966 through 1978. Given the lag between publication and indexing and citation, several articles and books published in 1978 may have been missed. Included in the bibliography are a few references from before 1966, several from 1979, and a few from 1980, though no systematic attempt was made to identify references outside of the 1966-78 period. Excluded from the bibliography are scores of CEA/CBAs on health-relevant nonmedical subjects (e. g., traffic safety and control of environmental pollution), as well as dozens of books and articles on CEA/CBA methodology that are addressed to a general nonhealth technical audience (e. g., 737).

The line determining inclusion in or exclusion from the bibliography was not invariably a fine one. In general for methodology articles, borderline references were excluded. Thus, certain prominent articles which have had substantial impact on health care CEA/CBA are not found in the bibliography (though some are listed in "Other References") because they were not necessarily directed at a health care audience. The seminal work of Rice on measuring the cost of illness is a good case in point (721,746), as is the related work of Acton and others on measuring the value of life (4,470, 730,761). These studies reside at the heart of a long-lived CEA/CBA intellectual debate, and each has formed the basis of numerous attempts to value the health benefits of programs; but the issues and techniques transcend categorization as health care methodologies. They are equally relevant to numerous human welfare programs outside of the personal health services arena. Similarly, several excellent studies of the social costs of specific illnesses are excluded because they are not CEA/CBAs of efforts to reduce these costs.

Whereas the rule for tangentially related methodology references was exclusion, OTA adopted a policy of inclusiveness when classifying references as CEA or CBA. As described immediately below, the literature search relied heavily on published and computer-based indexes. Many of the studies which purport to be CEAs or CBAs are not CEAs/CBAs under the definitions of chapter 1. At the extreme, for example, at least one article whose title advertises it as presenting a cost-benefit ratio does not include any such comparison of costs and benefits (47). Rather than weed out such references, OTA included all studies which are known to be CEA/CBAs or which are presented as such in their titles. Chapter 3 identifies most of the studies commonly held in high regard.

References included in the bibliography were obtained from four sources: 1) computer-assisted literature searches, 2) published professional literature indexes, 3) reference lists of individual articles, papers, and books, and 4) communication with leading health services researchers, including the members of the Advisory Panel to this OTA assessment.

Two computer-assisted literature searches provided numerous references. MEDLARS covered relevant citations from *Index Medicus*. For the years 1966 through 1975, this search covered the subject heading "Cost and Cost Analysis" (which, until 1976 included CEA and CBA). From 1976 to the present, the search was limited to the *Index Medicus* subject heading "Cost Benefit Analysis," a heading introduced in 1976 which includes both CEA and CBA. The second computer-assisted search was conducted by the National Health Planning Information Center, using the key words "cost-benefit analysis" and "cost-effectiveness analysis."

For the months postdating the MEDLARS search, *Index Medicus* was consulted directly. Published indexes also supplied many relevant economic studies not included in *Index Medicus*. Beginning with the 1966 editions, two indexes of economic literature were selected: the *Index of Economic Articles* and the *Journal of Economic Literature* (prior to 1969 entitled the *Journal of Economic Abstracts*).

NOTE: Articles and other materials that did not fit the criteria for inclusion in this bibliography but that were used in the writing of this background paper have been collected as "Other References" at the end of this report. References in the text to this bibliography or to "Other References" may be distinguished by the number of the reference. Those in the bibliography are numbered from 1 through 601; those in "Other References" are numbered from 701 upward.

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