

Cost-Effectiveness Analysis: Understanding Costs

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Define CEA

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Cost-effectiveness analysis (CEA) compares the costs of an intervention or policy with the measures of health improvement that are gained.



Outline of presentation

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- Define perspective
- Cost data collection
- Cost data categorization



Three basic viewpoints in economic evaluations:

- Societal
- Provider
- Private



Societal

- -Often recommended in public health
- -Multisectoral
- Direct medical costs, indirect medical costs, non-medical costs
- Be cautious about double counting



• Provider

- -General the program or hospital
- —Useful for budgeting, funding
- Direct and indirect medical



Private

- Patient expenses, or out of pocket expenses
- Includes non-medical costs, such as transportation or care-giving
- Important for FRP and medical impoverishment



Other

- -Government
- —Third party payer/Insurer
- -Multiple



Cost Data Collection

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- Identify types of cost data needed
- Main sources for collection
 - Program or project budget
 - Hospital, clinic, health system records
 - Ingredients
 - Questionnaires



Cost Data Collection

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Alternative Sources

- Literature reviews
- Tradable goods
 - Commodities that have a common international market price
 - Often used for calculating the opportunity costs of discounted or free items, such as medications or vaccines
- Cost databases
 - WHO-CHOICE, One Health Tool



Cost Data Categorization

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Financial

- Include actual project expenditures for all inputs and resources used by project
- Many resources used are not fully captured in budget expense reports (donations, discounts, volunteers, etc)

Economic

Recognizes value of resources that could have been productively used elsewhere

Using both

- Economic costs can supplement financial costs that are easily available from financial records
- Some studies present both costs for comparison



Cost Data Categorization

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Recurrent

- Costs that require a quantity
- Ex: Personnel, materials and supplies, operating costs, maintenance

Capital

- Annualized over useful life of the factor input
- Building, major equipment, other capital costs



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Thank you