Cost-Effectiveness Analysis in Health Care
PubH 5862
Spring, 2003

SYLLABUS
Revision 2

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Guest Instructors: Melissa S. Martinson, Ph.D., Regulatory and Clinical Research Institute
Paul C. Langley, Ph.D., 3M

Time: Class: T,Th 4:00 - 5:15 PM

Classrooms: Class: A270 Mayo Building
Computer Lab: A268/9 Mayo Building

Office Hours: W 1:15-2:15; F 3:00-4:00; and by appt.

Texts: (1) Gold, Marthe R., Joanna E. Siegel, Louise B. Russell, and Milton C.
Press, 1996.
(2) Reading packet, available Health Science Bookstore, 2-554 Moos.
(3) DATA 4.0 for Healthcare User’s Manual. Williamstown, MA: TreeAge

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Date  Topic  Readings (* = optional)
1/21  History and Theoretical Basis

Stokey, Edith and Richard Zeckhauser. “Public Choice: To What Ends?” A
257-290.
1/23  Evaluation of Benefits from Demand Theory


1/28  Overview of CEA

**QUIZ #1**

Gold et al., Ch. 1 and 2, pp. 3-53.


1/30  Measuring Costs

Gold et al., Ch. 6, pp. 176-213.

Date  Topic  Readings (* = optional)

2/4  Cost Issues


Nyman, John A. “Should the Consumption of Survivors Be Included as a Cost in Cost-Utility Analysis?” University of Minnesota, August 23, 2002.


2/6  Measuring Outcomes

**QUIZ #2**

Gold et al., Ch. 4, pp. 82-134.


2/11  Assessing Effectiveness in Cost-Effectiveness Analysis

Gold et al., Ch. 5, pp. 135-175.


2/13  Important Measures of General Health Status and Quality of Life

Date  Topic  Readings (* = optional)


2/18  Measuring Quality of Life through SG, TTO and VAS


2/20  Linking Quality of Life to the SF-36


*Bult, Roelf, Maria G. M Hunink, Joel Tsevat, and Milton C. Weinstein. Heterogeneity in the Relationship Between the Time Tradeoff and Short Form-36 for HIV-Infected and Primary Care Patients, *Medical Care* vol. 36, no. 4, April 1998, pp. 523-532.

*Busschback, Jan J. V., Joseph McDonnell, Marie-Louise Essink-Bot, Ben A. van Hout. “Estimating Parametric Relationships between Health Description and Health Valuation with an
Cost-Benefit, Cost-Effectiveness and Decision Analysis in Health Care  
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Page 5

**Date**  **Topic**  **Readings (* = optional)**


2/25  **QALYs and Cost-Utility Analysis**


2/27  **Assigning Monetary Values to Outcomes**

**QUIZ #4**


3/4  **Assigning Monetary Values to Human Life and Quality Adjusted Years of Life**
Date  Topic  Readings (* = optional)


3/6  Discounting Debate

**QUIZ #5**


3/11  DATA 4.0 (Nyman)  **Lab. Room: A269 Mayo, 3:10-5:15 (Note special time).**

*DATA 4.0 for Healthcare Users’ Manual. Chapters 2, 3, 5, 7, 9 and 26.*
Decision-Analytic Models


3/13 Discounting Debate


3/25 No class

3/27 MIDTERM

4/1 DATA 4.0 (Martinson) Lab. Room: A269 Mayo, 3:10-4:25.

ASSIGNMENT #1 DUE

DATA 4.0 for Healthcare Users’ Manual. Chapters 6 (to p. 58) 19, 20, 21 (to p. 187).

4/3 Decision-Analytic Models: Markov models

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<td><strong>Lab. Room: A269 Mayo, 3:10-4:25.</strong></td>
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<td><strong>Lab. Room: A269 Mayo, 3:10-4:25.</strong></td>
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ASSIGNMENT #3 DUE

DATA 4.0 for Healthcare Users’ Manual. Chapters 6 (p. 58 on), 22.

4/17 Targets and Budgets in Cost-Effectiveness Modeling (Langley)


Locate the United Kingdom’s National Institute for Clinical Excellence (NICE) on the web. NICE is part of their National Health Service (NHS). Then download Guidance for Manufacturers and Sponsors, which is title No. 5 (Reference number N0014) in their Technology Appraisals Process Series.

ASSIGNMENT #4 DUE


ASSIGNMENT #4 DUE


4/24 Reporting Standards for Cost-Effectiveness Studies

Gold et al., Chapter 9, “Reporting Cost-Effectiveness Studies and Results,” pp. 276-311.


Date  Topic  Readings (* = optional)


5/1  Applications


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<td>5/6</td>
<td>Presenting Results and Classic Applications</td>
<td><strong>ASSIGNMENT #5 DUE</strong></td>
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<td>5/13</td>
<td>FINAL EXAM 4:00 - 6:00 pm, A270 Mayo</td>
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