

**Health Services Research**

G. Scott Gazelle, MD, MPH, PhD  
Institute for Technology Assessment  
Massachusetts General Hospital

Kimberly E. Applegate, MD, MS  
Professor of Radiology and Pediatrics  
Indiana University School of Medicine  
Riley Hospital for Children

Ruth C. Carlos, MD, MS  
Dept of Radiology/MRI  
University of Michigan Health System

Ruth Carlos and Kimberly Applegate  
RSNA HSR curriculum references

### **I. Introduction to Health Services Research and Technology Assessment**

Fryback DG, Thornbury JR. The efficacy of diagnostic imaging. *Med Decis Making*. 1991;11:88-94.

### **II. Cost of Care**

Bodenheimer, T. High and rising health care costs. Part 1: Seeking an explanation. *Ann Intern Med* 2005; 142:847-54.

Bodenheimer, T. High and rising health care costs. Part 2: Technologic innovation. *Ann Intern Med* 2005; 17: 142:932-7.

Bodenheimer, T. High and rising health care costs. Part 3: The role of health care providers. *Ann Intern Med* 2005; 17: 142:996-1002.

### **III. Cost-Effectiveness Analysis**

#### **A. General**

Gazelle GS, McMahon PM, Siebert U, Beinfeld MT. Cost-effectiveness analysis in the assessment of diagnostic imaging technologies. *Radiology*. 2005 May;235(2):361-70.

Hollingworth W. Radiology Cost and Outcomes Studies: Standard Practice and Emerging Methods. *AJR*. 2005;185:833-839.

O'Brien BJ, Heyland D, Richardson WS, Levine M, Drummond MF. Users' guides to the medical literature. XIII. How to use an article on economic analysis of clinical practice. B. What are the results and will they help me in caring for my patients? Evidence-Based Medicine Working Group. *JAMA*. 1997 Jun 11;277(22):1802-6.

#### **B. Estimating Cost**

Eisenberg JM. Clinical economics. A guide to the economic analysis of clinical practices. *JAMA*. 1989;262:2879-2886.

#### **C. Estimating Health Related Quality of Life**

Guyatt GH, Feeny DH, Patrick DL. Measuring health-related quality of life. *Ann Intern Med*. 1993;118:622-629.

Swan JS, Fryback DG, Lawrence WF, Sainfort F, Hagenauer ME, Heisey DM. A time-tradeoff method for cost-effectiveness models applied to radiology. *Med Decis Making*. 2000 Jan-Mar;20(1):79-88.

Guyatt GH, Naylor CD, Juniper E, Heyland DK, Jaeschke R, Cook DJ. Users' guides to the medical literature. XII. How to use articles about health-related quality of life. Evidence-Based Medicine Working Group. *JAMA*. 1997 Apr 16;277(15):1232-7.

#### **D. Systematic Review of Economic Analyses**

Pignone M, Saha S, Hoerger T, Lohr KN, Teutsch S, Mandelblatt J. Challenges in systematic reviews of economic analyses. *Ann Intern Med.* 2005 Jun 21;142(12 Pt 2):1073-9.

#### **IV. Health Care Policy and Reimbursement**

Power EJ, Eisenberg JM. Are we ready to use cost-effectiveness analysis in health care decision-making? A health services research challenge for clinicians, patients, health care systems, and public policy. *Med Care.* 1998 May;36(5 Suppl):MS10-147.

Raab GG and Parr DA. From Medical Intervention to Clinical Practice: The Reimbursement Challenge Facing New Device Procedures and Technology—Part 2: Coverage. *JACR* 2006; 3:772-777.

#### **V. Quality Assessment and Improvement**

Applegate KE. Continuous quality improvement for radiologists. *Acad Radiol* 2004 Feb;11(2):155-61.

Johnson CD, Swensen SJ, Glenn LW, Hovsepian DM. Quality improvement in radiology: white paper report of the 2006 Sun Valley Group meeting. *J Am Coll Radiol.* 2007 Mar;4(3):145-7.