

# Comparing Multi-Attribute Utility Measures: EQ-5D, HUI, and SF-6D

Friday, July 6, 2007, 1300-1700

## Workshop Overview

The Workshop will be an intermediate-level Workshop on the multi-attribute utility approach to assessing health-related quality of life. The Workshop will include hands on experience in completing questionnaires from several systems and the analysis and interpretation of the results. Topics will include the conceptual foundations of multi-attribute health-status classification systems and multi-attribute utility functions, a review of the content (dimensions or attributes of health status included) and evidence on measurement properties (floor and ceiling effects, reliability, construct validity, responsiveness, and interpretation of scores) of prominent multi-attribute systems including the EuroQol EQ-5D, Health Utilities Index (HUI), and Short-Form 6D. The Workshop will present examples of applications from diverse clinical and population health settings as well as cost-utility and cost-effectiveness analyses. Guidance on criteria for selecting a utility measure for a study will also be provided. The session will include interactive demonstrations and discussion and didactic presentations.

## Outline

- I. Completion of Questionnaires of Selected Multi-Attribute Utility Measures
- II. Introduction and Conceptual Foundations
- III. Review of Measurement Properties and Applications: Content, Floor and Ceiling Effects, Feasibility, Reliability, Construct Validity, Responsiveness, and Interpretation of Utility Scores
- IV. Estimating Multi-Attribute Utility Functions
- V. Results from Completed Questionnaires
- VI. Summary and Synthesis; Criteria for Choosing a Multi-Attribute Utility Measure for Use in a Study

## Learning Objectives

Attendees will become familiar with the conceptual foundations of the multi-attribute utility approach, the techniques used to obtain utility scores to estimate multi-attribute utility functions, evidence on the measurement properties of multi-attribute utility measures, how to interpret utility scores, and criteria for selecting a multi-attribute utility measure.

**Handouts.** Handouts of materials to be presented will be forwarded to the iHEA office. Handouts will include a copy of the slides to be presented and a list of references.

## **Workshop Faculty: Presenter/Organizer**

David Feeny, PhD

David Feeny is a Senior Investigator at the Kaiser Permanente Northwest Center for Health Research. He is also a Professor of Economics and Public Health Sciences at the University of Alberta, Fellow of the Institute of Health Economics, and Immediate Past-President of the International Society for Quality of Life Research(ISOQOL). David Feeny has applied both direct and multi-attribute utility measures as well as generic and specific measures of health-related quality of life in a wide variety of settings including total hip arthroplasty, pediatric asthma, cancer in childhood, prenatal diagnosis, and population health. David is a major developer of Health Utilities Index Mark 2 and Mark 3 multi-attribute systems. David has a proprietary interest in Health Utilities Incorporated.

David Feeny

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### **Presenter:**

John Horsman, BA

John is a researcher at McMaster University in the Department of Clinical Epidemiology and Biostatistics and the Centre for Health Economics and Policy Analysis. John has over 25 years of experience in health-services and health-related quality-of-life research. He has presented a numerous major international conferences and is a lead author or co-author of numerous peer-reviewed publications. Projects

with which he has been involved include the estimation of multi-attribute utility functions for the Health Utilities Index (HUI) Mark 2 system, cancer in childhood, von Willebrand Disease, hemophilia, Wilms tumor, and neuroblastoma. John has been heavily involved in a number of projects to translate and culturally adapt Health Utilities Index questionnaires as well as in the development of an internet-based system for administering and interpreting the HUI. John has extensive experience in collecting, analyzing, and interpreting health-related quality-of-life data. He is very knowledgeable about HUI instrumentation and provides practical advice to users of HUI. John works part-time for Health Utilities Incorporated.

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### **Assigned Pre-Reading**

Torrance, George W., William Furlong, and David Feeny, "Health Utility Estimation." *Expert Reviews in Pharmacoeconomics Outcomes Research*, Vol. 2, No. 2, 2002, pp 99-108.

[Anyone having difficulty locating a copy of the paper should contact the organizer:  
[David.Feeny@kpchr.org](mailto:David.Feeny@kpchr.org)]