Introduction to Assessing Health-Related Measures in Diverse Populations

International Society for Quality of Life Research (ISOQOL)
October 19, 2005
Grand Ballroom C
San Francisco, California
Introduction to Assessing Health-Related Measures in Diverse Populations

International Society for Quality of Life Research (ISOQOL)
12th Annual Conference

Pre-Conference Workshop 2

October 19, 2005
San Francisco, California

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Workshop Objectives

After completing this 3-hr workshop, participants will be able to:

1. State why it is critical to use measures that have been tested across diverse subgroups in health and healthcare disparities research;
2. Review the adequacy and equivalence of existing measures in diverse population groups for possible use in a specific study;
3. State several approaches for using qualitative methods to pretest measures in a diverse group;
4. Identify two methods for comparing psychometric characteristics across diverse groups.
Faculty Contact Information

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Agenda

9:30-9:40  Introduce faculty, overview

9:40-10:10 (30 min) Introducing measurement issues and approaches
Anita L. Stewart, Ph.D.

Issues in assessing the conceptual and psychometric adequacy and equivalence of self-report measures in studies that compare health levels across diverse groups, including approaches for reviewing the adequacy and equivalence of existing measures in diverse population groups for use in a specific study.

10:10-10:20 Discussion, questions

10:20-10:50 (30 min) Cognitive pretesting methods for examining conceptual equivalence across groups
Anna Nápoles-Springer, Ph.D.

How qualitative methods can be used to pretest potential measures in diverse groups such as behavioral coding and cognitive interviewing, with a description of how interaction analysis can be used to modify measures.

10:50-11:00 Discussion, questions

11:00-11:15 (15 min) Break

11:15-11:45 (30 min) Methods for testing psychometric equivalence
Steven Gregorich, Ph.D.

An overview of methods for evaluating the psychometric adequacy of measures within a diverse group, and for comparing the psychometric characteristics across diverse groups.

11:45-11:50 Discussion, questions

11:50-12:30 (40 min) Open discussion and questions
Introducing Measurement Issues and Approaches

Anita L. Stewart, Ph.D.
Introducing Measurement Issues and Approaches

Anita L. Stewart, Ph.D.

Outline

◊ State the problem: to assure that measures are equally valid and unbiased across diverse groups and to question assumptions of universality of concepts and measures
◊ Describe issues involved in assuring conceptual and psychometric equivalence
◊ Review approaches for reviewing appropriateness of existing measures (how to locate and review measures, how to select a good measure)

Handouts

Stewart AL and Nápoles-Springer AM. Advancing health disparities research: can we afford to ignore measurement issues? Medical Care, 2003;41(11):1207-1220.


References for Further Reading


Cognitive Pretesting Methods for Examining Conceptual Equivalence Across Groups

Anna Nápoles-Springer, Ph.D.
Cognitive pretesting methods for examining conceptual equivalence across groups

Anna Nápoles-Springer, Ph.D.

Outline
◊ Describe how qualitative methods can help examine conceptual equivalence and examine potential response bias
◊ Present details on how to conduct and analyze cognitive interviews
◊ Provide examples of how analysis of cognitive interviews can help in revising items

Handouts


References for Further Reading


Methods for Testing Psychometric Equivalence

Steven E. Gregorich, Ph.D.
Methods for Testing Psychometric Equivalence

Steven E. Gregorich, Ph.D.

Outline

◊ Describe steps involved in testing whether a measure is equally valid and unbiased across groups
◊ Define psychometric equivalence in factor analytic terms
◊ Illustrate how confirmatory factor analysis and IRT can be used to explore psychometric equivalence (equally valid and unbiased across groups)

Handouts


References for Further Reading

Substantive applications:


More technical

Little TD. Mean and covariance structures (MACS) analyses of cross-cultural data: Practical and theoretical issues. Multivariate Behav Res, 1997; 32: 53-76.