

## WORKSHOP 4

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# Workshop 4: Patient specific evaluation measures for medication review

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## Plan for Workshop

- 1. General evaluation measures for medication review
- Conceptual framework discussion on Patient Reported Outcome Measures (PROMs)
- 3. Technical discussion psychometric properties with examples
- 4. Designing, clustering and prioritizing PROM domains
- 5. Generating some sample items for each of the domains

#### "ECHO"

 Economic, clinical, and humanistic outcomes: a planning model for pharmacoeconomic research

Baselin e measu res	Test	Post test measu res				Post test measu res
DRPs QoL		DRPs	$\rightarrow$	$\rightarrow$	$\rightarrow$	→ QoL
DRPs QoL		DRPs	$\rightarrow$	$\rightarrow$	$\rightarrow$	QOL
						/



#### Domain 1: Feelings about medicines

- ➤ I do not mind if other people know about the medications I take
- ➤ I have not experienced any adverse effects from my medication
- ➤ I have the best available therapy for my condition

## Domain 2: Information and communication

#### Sample items:

Think of your last contact with a health care professional:

- ... the person spent enough time informing me about my treatment
- ... I feel comfortable asking questions
- ... I received enough information about the use of my medicines
- ... I received enough information about the **need** for my medicines
- ... I received enough information about the risk of my medicines

## Domain 3: Empowerment over medicine use

- > I fully understand why I am taking each of my medicines
- > I fully understand how to take each of my medicines
- > Taking my medicines will improve my health
- ➤ I have sufficient information about my medicines

# Domain 4: Well being and Activities of Daily Living

#### Sample items: My medicines affect my...

- > ... social life
- > ... family life
- > ... professional life
- > ... sex life
- ... ability to self-care
- > ... driving
- > ... mobility
- > ... physical appearance
- ... leisure activities
- > ... holidays
- > ... freedom to eat what I want

#### Domain 5:?

- > My medicines are a burden to me
- My medication regimen is not practical
- The service provided by my pharmacist is an added value to my health

#### Domain 6: My health care system

- > The cost of my medicines is too high
- > I feel I am a burden to the health care system
- Sometimes I have to go without other things to afford my medicines
- ➤ It cost me alot of money getting the doctor to write prescriptions
- > I spend too much time in the health care system

#### We want our measure to have these properties:

- Valid
- Reliable
- Responsive
- Acceptable

### Summary for PROM process

- Develop conceptual framework literature, theoretical framework, qualitative
- Define the construct / domains
- Generate large item pool reflecting all aspects of the construct/s
- Consider the response format (eg Likert type)
- Content expert review & pre-test items
- Pilot test item reduction & modification
- Testing, using Exploratory Factor Analysis (EFA)
   and Confirmatory Factor Analysis (CFA)



