



ISSOP-2014  
Gothenburg Sweden June 16-18

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Measuring HRQoL:

# Multi Attribute Utility Instruments

Med Dr Solveig "Sue" Petersen

Epidemiology and Global Health, Umeå University  
Child and Adolescent psychiatry, Umeå University  
*Solveig.petersen@pediatri.umu.se*  
Tel. +46 (0)70 39 25 210



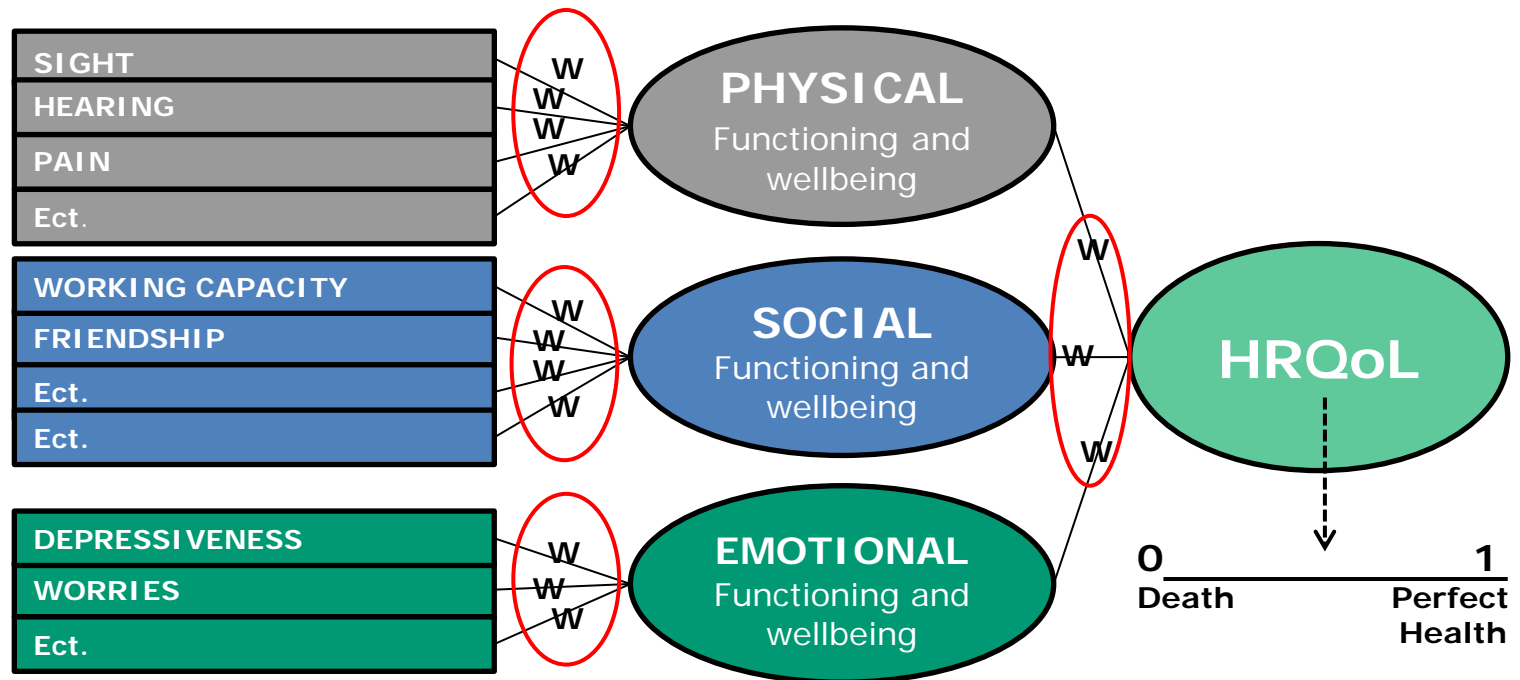
# Multi attribute utility (MAU) instruments

## -WHAT FOR?

- **Comparisons** of health interventions where **HRQoL is the outcome** or an important outcome
- When both **mortality and morbidity are affected** and a common unit is desired
- When resources are limited and **cost-utility evaluations** are wanted

# MAU instruments - characteristics

- Several disparate outcomes combined in a single composite measure
- Generic: captures core elements of HRQoL
- Values/preferences attached to outcomes: more important outcomes weighted more heavily





# Summary

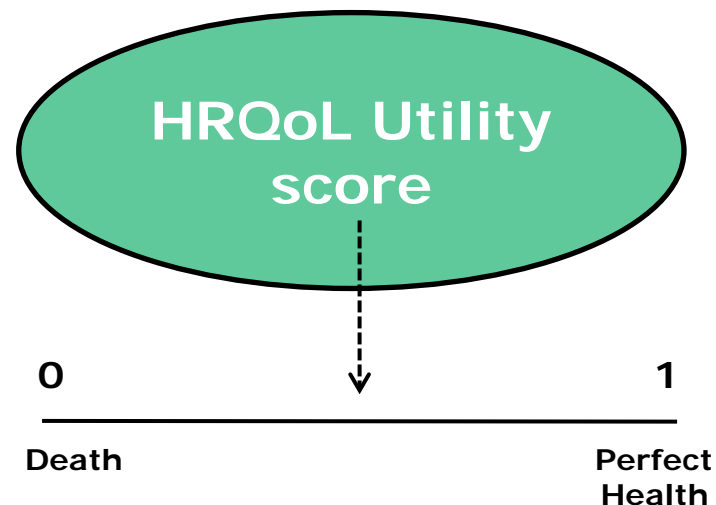
## MAU instruments:

### Give Generic HRQoL Utility score

- Based on preferences
- Interval scale - anchored from death to perfect health

### Allows for

- Calculation of Quality Adjusted Life Years (QALY's)
- Can be used as an effect outcome in cost-utility evaluations
- Broad comparisons across widely different interventions





# Available MAU instruments

## Adults only

- Quality of Well-being; 15D; SF-6D; EQ-5D  
-Adaption: EQ-5D-Y; **NO** child specific utility weights!

## Available for Children/Adolescents

- **Assessment of Quality of Life (AQOL)**  
Adults: AQOL-4D/6D/7D/8D  
Adaption: **AQOL-6D-Adolescent**
- **Health Utility Index: HUI2, HUI3**
- **Child Health Utility 9D: CHU-9D**

# MAU instruments available for children (0-18 y)

Child Form	AQOL-6D Adolescent	HUI 2 (Add-on)	HUI 3 (1 <sup>st</sup> choice)	CHU-9D
Origin	Australia		Canada (Commercial)	UK
Ages	Self > 15y		Self > 12y Proxy > 5y (< 5y)	Self 7y-17y (< 7y) Proxy 7y-17y (< 7y)
Development	ADULT based		Lack children's perspective	Incl. children's perspective
Validity/Reliability	Unknown (face validity)		Supported for child and <u>proxy</u> version	Supported for <u>child</u> and proxy version
Preferences by	15-18y olds. NZ, Fiji, Australia, Tonga	Parents of school children. Canada	Adults Canada	Children+Parents UK, Australia
Dimensions	Overall HRQoL  <i>Descriptive only:</i> (Mental Health) (Pain) (Senses) (Independent living) (Coping) (Relations)	Overall HRQoL +sub dimensions  Emotion Pain Sensation Mobility Self-care Cognition Fertility	Overall HRQoL +sub dimensions  Emotion Pain Vision Hearing Speech Ambulation Cognition Dexterity	Overall HRQoL +sub dimensions  Worries Sadness Annoyed Pain Sleep Tired Daily Routines School-/Homework Join in activities

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Dimensions	Overall HRQoL	Overall HRQoL +sub dimensions	Overall HRQoL +sub dimensions	Overall HRQoL +sub dimensions
Languages	English Tongan	<b>Available or in preparation</b> English, Afrikaans, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, Finnish, Flemish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Malay, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Tamil, Thai, Turkish, Vietnamese.		English Spanish Chinese (Swedish-to be)



## Summary

# MAU instruments available for children

### Four forms available

AQOL-6D-Adolescent, HUI2, HUI3, CHU-9D

### Scale scores

All four forms give overall HRQoL utility score

Three instruments give weighted subscale scores (HUI2, HUI3, CHU-9D)

### Development/preference scoring

Only one form, the CHU-9D, take into account children's perspective

### Ages

Self report from 7 years (CHU-9D)

Proxy report from 5 years (HUI2, HUI3)

### Languages

All instruments available in English

Two forms available in numerous languages (HUI2, HUI3)