Health-Related Quality of Life Preference Measures for Vision Studies

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Sepi's Charge

1) Pros versus cons of using generic versus disease-targeted measures to estimate preference scores/utilities

2) Example use of disease-targeted measure

Targeted Profile Measure

- Designed to be relevant to subgroup.

- Sensitive to small, important changes.

- More familiar and actionable.

- The next questions are about how things you do may be affected by your vision. For each one, please circle the number to indicate whether for you the statement is true for you *all*, *most*, *some*, *a little*, or *none of the time*.

Do you accomplish less than you would like because of your vision?
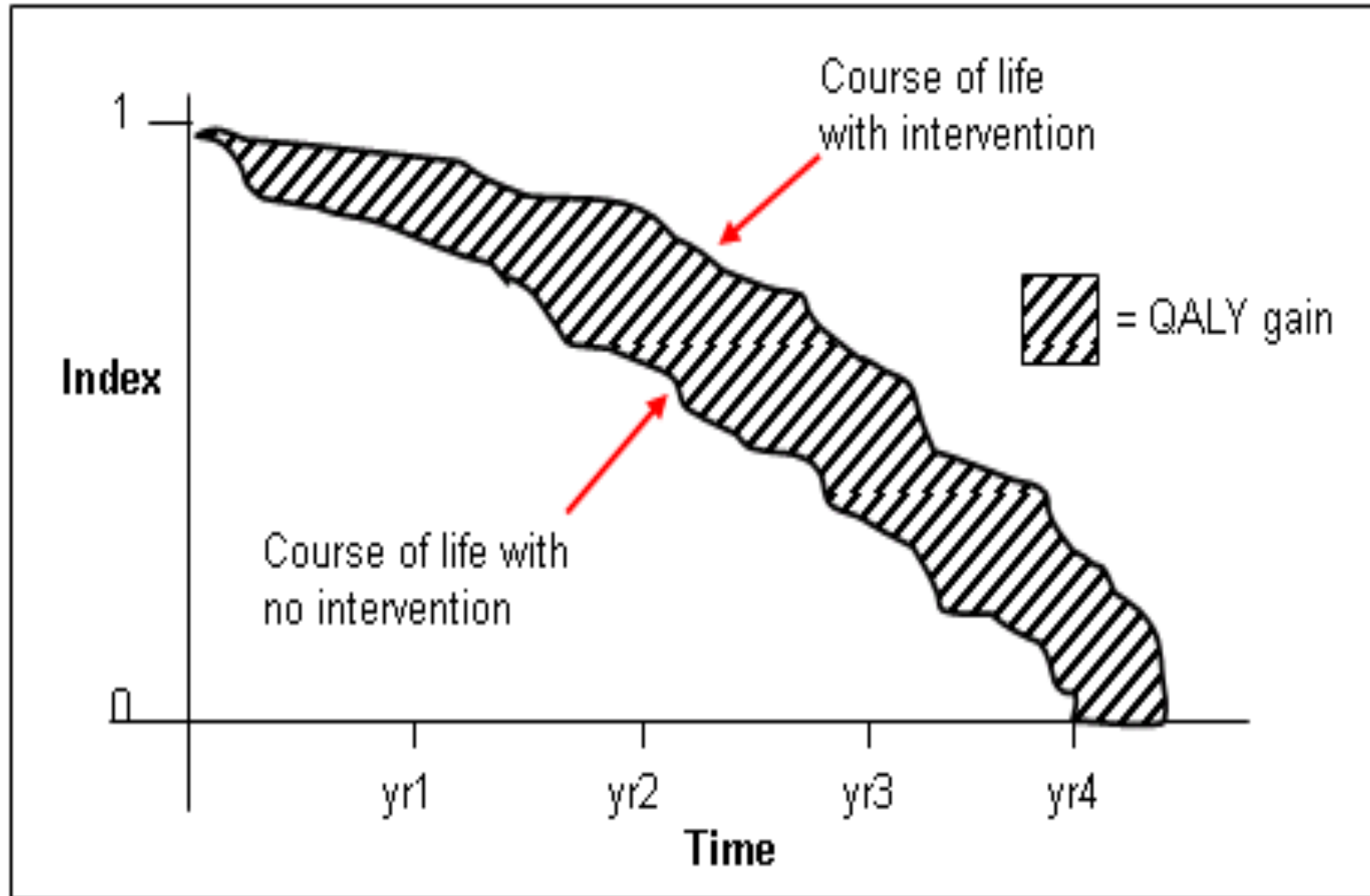
Generic Profile Measure

1) Profile

   - Generic content and common scale

   - Multiple scores

Cost/utility requires QALY estimates
Based on public preferences

Preference Measure

- Direct (SG, TTO, Rating)

    - Underlying attributes not known

- Indirect (EQ-5D, QWB, SF-6D, VFQ-UI)

    - Attributes known and used to estimate preferences

Common scale

Your own health state today

By placing a tick in one box in each group below, please indicate which statement best describes your own health state today.

Do not tick more than one box in each group.

Mobility

I have no problems in walking about ☐

I have some problems in walking about ☐

I am confined to bed ☐

Self-Care

I have no problems with self-care ☐

I have some problems washing and dressing myself ☐

I am unable to wash or dress myself ☐

Usual Activities (eg. work, study, housework, family or leisure activities)

I have no problems with performing my usual activities ☐

I have some problems with performing my usual activities ☐

I am unable to perform my usual activities ☐

Pain/Discomfort

I have no pain or discomfort ☐

I have moderate pain or discomfort ☐
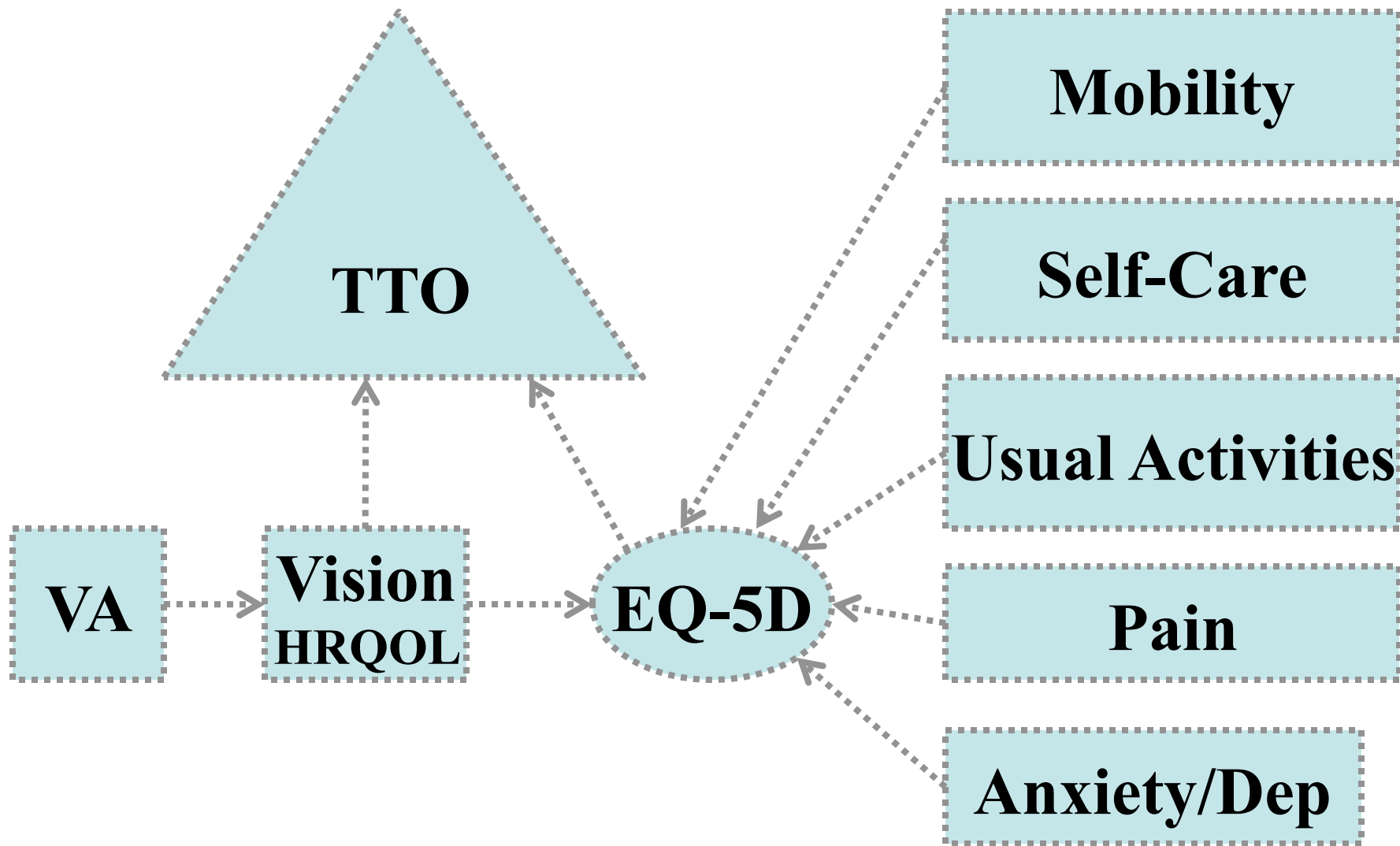
I have extreme pain or discomfort ☐

Anxiety/Depression

I am not anxious or depressed ☐

I am moderately anxious or depressed ☐

I am extremely anxious or depressed ☐

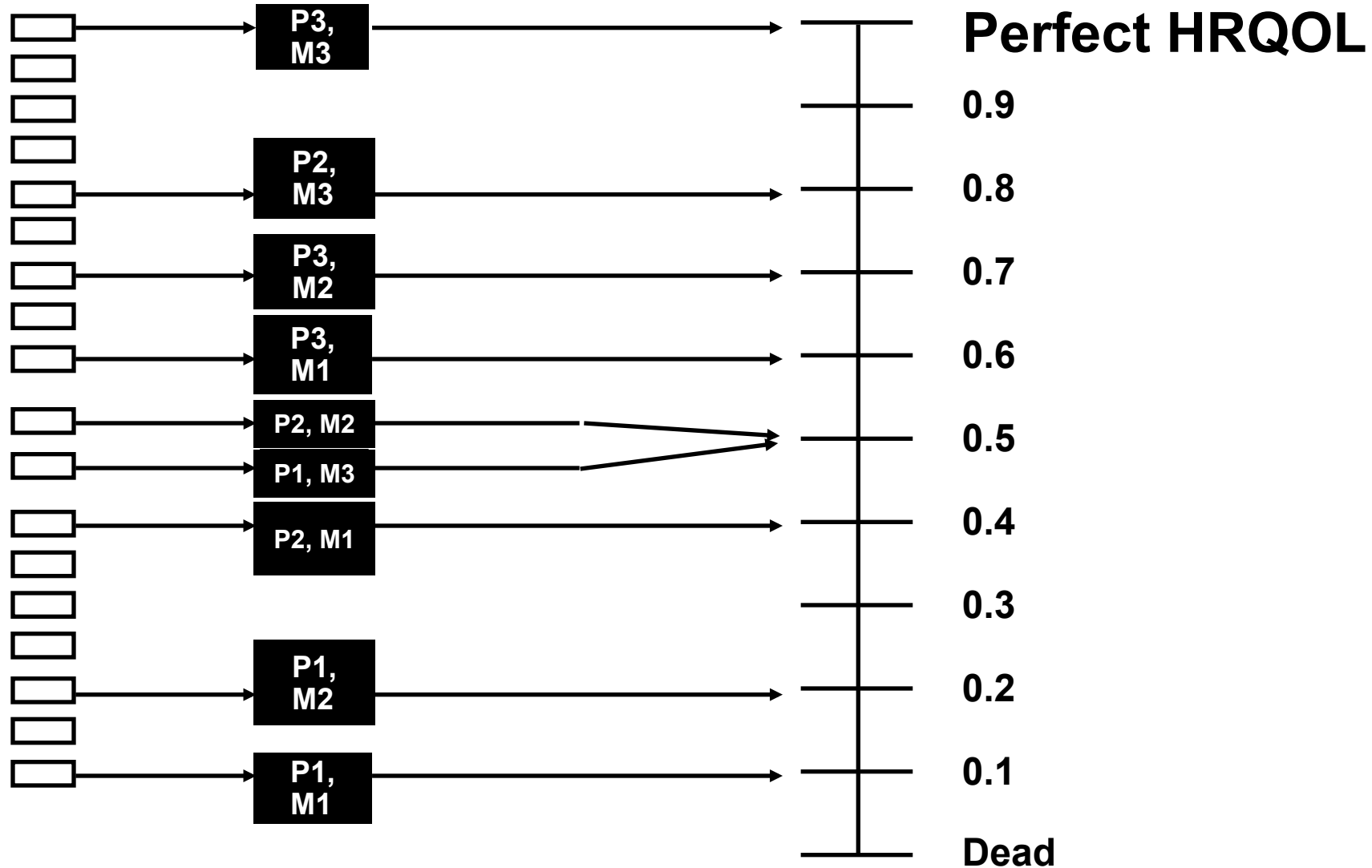# Why Estimate Preferences from Disease-targeted Measure?

- Direct or other indirect preference measure not administered.

- Indirect preference measure was administered but is insensitive to important aspects of HRQOL for given condition

  - e.g., EQ-5D not associated with VA or contrast sensitivity in persons with macular degeneration

Mapping Health States to Preference Score

Exists   **Measured**

Perfect HRQOL

P3, M3

0.9

P2, M3 — 0.8

P3, M2 — 0.7

P3, M1 — 0.6

P2, M2
P1, M3 — 0.5

P2, M1 — 0.4

0.3

P1, M2 — 0.2

P1, M1 — 0.1

Dead

Example Disease-Targeted Measure (VFQ-UI)

6. How much difficulty do you have doing work or hobbies that require you to see well up close, such as cooking, sewing, fixing things around the house, or using hand tools?

14. Because of your eyesight, how much difficulty do you have going out to see movies, plays, or sports events?

18. Are you limited in how long you can work or do other activities because of your vision?

25. I worry about doing things that will embarrass myself or others, because of my eyesight.

20. I stay home most of the time because of my eyesight.

11. Because of your eyesight, how much difficulty do you have seeing how people react to things you say?

Near vision, distance vision, role function, mental health, dependency, social function

VFQ-UI

- 6 item subset of NEI VFQ-25 (11 scales)
  - general vision, near vision, distance vision, driving, peripheral vision, color vision, ocular pain, role function, dependency, social function, mental health
- 8 vision-related health states ranging from no difficulty to stopped doing work
  - TTOs from sample of 607 from Australia, Canada, U.K. and U.S. ranged from 0.34-0.96

VFQ-UI Health State Classification

Near Vision

I have no difficulty doing work or hobbies that require seeing well up close, such as cooking, sewing, fixing things around the house or using hand tools.

I have a little difficulty doing work or hobbies that require seeing well up close, such as cooking, sewing, fixing things around the house or using hand tools.

I have moderate difficulty doing work or hobbies that require seeing well up close, such as cooking, sewing, fixing things around the house or using hand tools.

I have extreme difficulty doing work or hobbies that require seeing well up close, such as cooking, sewing, fixing things around the house or using hand tools.

Distance Vision

I have no difficulty going out to see movies, plays or sports events.

I have a little difficulty going out to see movies, plays or sports events.

I have moderate difficulty going out to see movies, plays or sports events.

I have extreme difficulty going out to see movies, plays or sports events.

Role Function

I am not limited in how long I can work or do other activities

I am limited in how long I can work or do other activities a little of the time

I am limited in how long I can work or do other activities some of the time

I am limited in how long I can work or do other activities

VFQ-UI Health State Classification

Mental Health

I don't worry about doing things that will embarrass me or others

I worry some of the time about doing things that will embarrass me or others

I worry most of the time about doing things that will embarrass me or others

I worry all of the time about doing things that will embarrass me or others

Vision Dependency

I don't have to stay at home

I stay at home some of the time

I stay at home most of the time

I stay at home all of the time

Social Function

I have no difficulty at all seeing how people react to things I say.

I have a little difficulty at all seeing how people react to things I say.

I have moderate difficulty at all seeing how people react to things I say.

I have extreme difficulty at all seeing how people react to things I say.

Example Health State (Perfect Vision)

Because of my eye sight…

- I have no difficulty doing work or hobbies that require seeing well up close, such as cooking, sewing, fixing things around the house or using hand tools

- I have no difficulty at all seeing how people react to things I say

- I have no difficulty going out to see movies, plays or sports events

- I am not limited in how long I can work or do other activities

- I don't have to stay at home

- I don't worry about doing things that will embarrass me or others

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