Quality of life and patient benefit: The view of NICE – and a NICEr one

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Background

How do we determine the most efficient allocation of resources when we do not rely on the market – e.g. in the case of non-market goods like health?

- The UK Treasury recommends:
 - using market data (revealed preferences)
 - constructing a market (stated preferences)

In health we do something slightly different

Quality adjusted life years

 QALYs express the value of quality of life and length of life in a single index number
 Q expressed on a 0-1 (death-full health) scale

- We look at QALYs with and without treatment and compare the benefits to the costs of treatment
 Invest in low-cost QALYs e.g. below £30,000
- QALYS ARE A VERY GOOD IDEA

A NICE set of questions

What?

- Description of health
 - A generic measure e.g. the EQ-5D
- How?
 - Valuation of health
 - Preferences e.g. time trade-off (TT0)
- Who?
 - Source of values
 - Representative sample of the population

The EQ-5D

1. Mobility

I have no problems in walking about I have some problems in walking about I am confined to bed

2. Self-care

I have no problems with self-care I have some problems washing or dressing myself I am unable to wash or dress myself

3.Usual 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

4.Pain/Discomfort

I have no pain or discomfort

I have moderate pain or discomfort

I have extreme pain or discomfort

5.Anxiety/Depression

I am not anxious or depressed

I am moderately anxious or depressed

I am extremely anxious or depressed

The time trade-off

- Imagine that have some problems walking about for the next years and then dying
- How many years in full health is equal to this?
 - if you say 8.5 years
 - then having problems walking about = 0.85

General public TTO tariff for the EQ-5D

Dimension	Level	Coefficient
Constant		.081
Mobility	2	.069
	3	.314
Self-care	2	.104
	3	.214
Usual activity	2	.036
	3	.094
Pain/discomfort	2	.123
	3	.386
Anxiety/depression	2	.071
	3	.236
N3		.269

Problems with preferences

Focussing

- Attention on 'becoming' and not on 'being'
- Attention on negative things
- Thinking about it means attending to it

• Fear

- Responses reflect affective reactions

Even patients suffer from similar biases

An alternative?

Elicit subjective well-being (SWB) ratings
 e.g. Global evaluation of life satisfaction

 Elicit health state descriptions and allow regression analysis to determine the effect of different states on SWB

An example

- The SF-36 health measure contains different levels of e.g. pain and mental health
 - And can be used in valuing the Q in the QALY

• It has been used in:

- 600 members of the UK general public asked to imagine being in different health states
- 10,000 in the British Household Panel Survey rate life satisfaction and describe health

Selected results

Worst level	<u>SG</u>	<u>LS</u>
Pain	.167 [1]	.034 [4]
Mental health	.128 [2]	.159 [1]
Physical functioning	.111 [3]	.071 [3]
Vitality	.091 [4]	.089 [2]

Conclusion

QALYS ARE STILL A VERY GOOD IDEA
We just need to elicit the Q differently

THANK YOU