Comparing Patient and Public Preferences for Health States Associated with Age-Related Macular Degeneration

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50.0

Purpose

Health utility values suitable for calculating qualityadjusted life years (QALYs) are increasingly used to assess the cost effectiveness of treatments for agerelated macular degeneration (AMD). Health care decision makers disagree whether to use members of the public or patients to provide utilities.

- The public offer an unbiased view of health states, unaffected by the condition they are valuing
- Patients are likely to have a greater understanding of the condition and its effects on quality of life.[1]

Our aim was to test if utility values for health states associated with AMD elicited directly from patients were different from those calculated from public tariffs for health-related quality of life (HRQoL) questionnaires.

Methods

Participants

- 60 UK patients with AMD
- VA = 0.3 to 1.3 logMAR

Instruments

- Generic preference-based HRQoL questionnaires (EQ-5D and SF-6D)
 - Health utilities representing public preferences were calculated using standard general population tariffs.
- Time tradeoff (TTO)
 - Patient utilities were calculated directly from TTO
- EQ-5D visual analogue scale (VAS) Patient VAS scores on scale from worst imaginable health (0) to perfect health (100)

Table 1 Health status questionnaires

Table I. Health Status questionnaires		
Instrument	Preferences	Valuation technique
EQ-5D	UK public (EQ-5D-5L interim value set)	TTO (preference-based)
SF-6D	UK public (UK valuation of SF-36 US v1)	Standard gamble (preference-based)
TTO	Patients' own	TTO (preference-based)
EQ-5D VAS	Patients' own	VAS (non-preference-based)

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Results

- Mean utilities derived from the public tariffs were significantly higher than from patients' valuation (see Figure 1, Table 2).
- The EQ-5D (public) is highly correlated with the SF-6D (public) but not with the TTO (patient) (see Figure 2).
- Visual acuity (VA) in the better-seeing eye was not associated with any utility measure (all r<0.08, p>0.2; see Figure 3).

Figure 1. Frequencies of reported health utilities

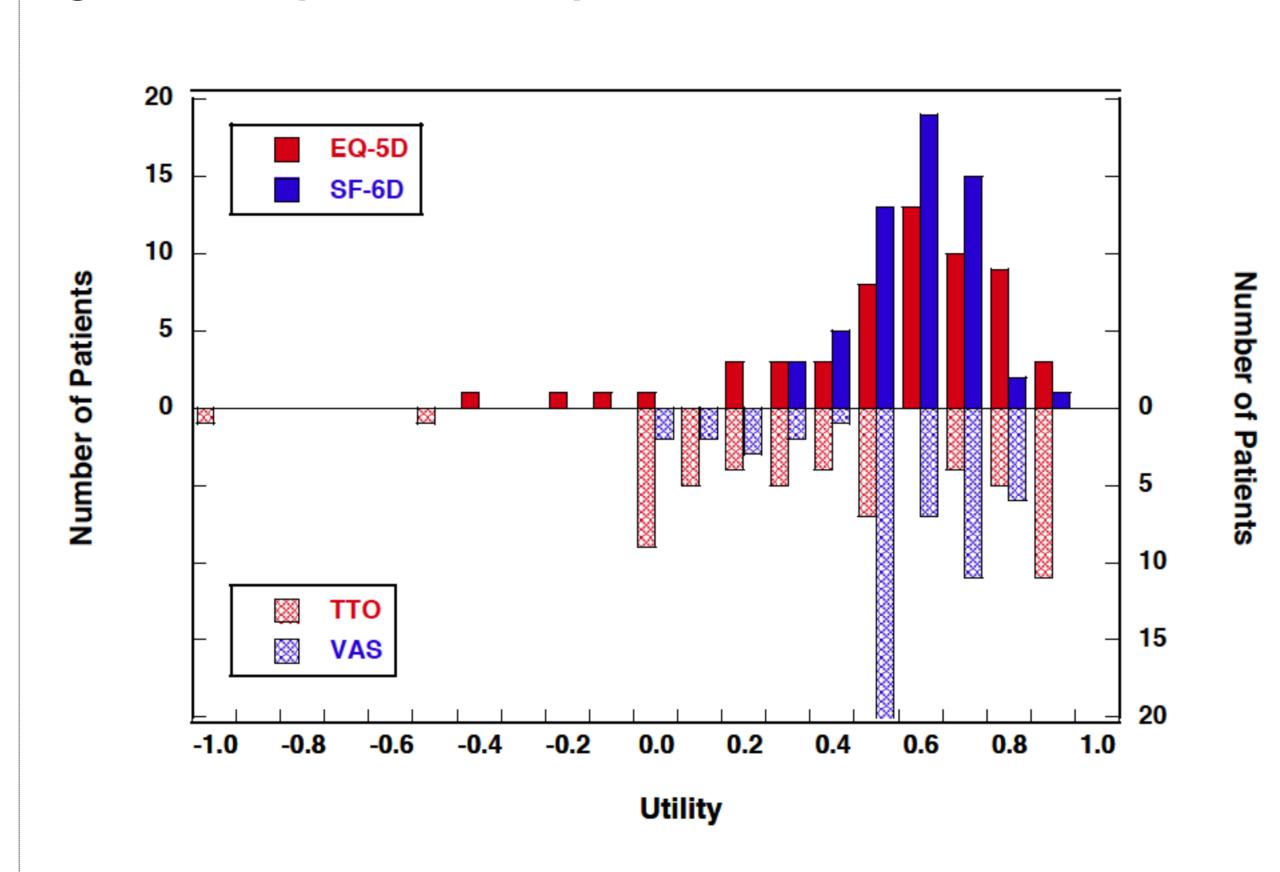


Figure 2. Comparison of methods for deriving public and patient preferences

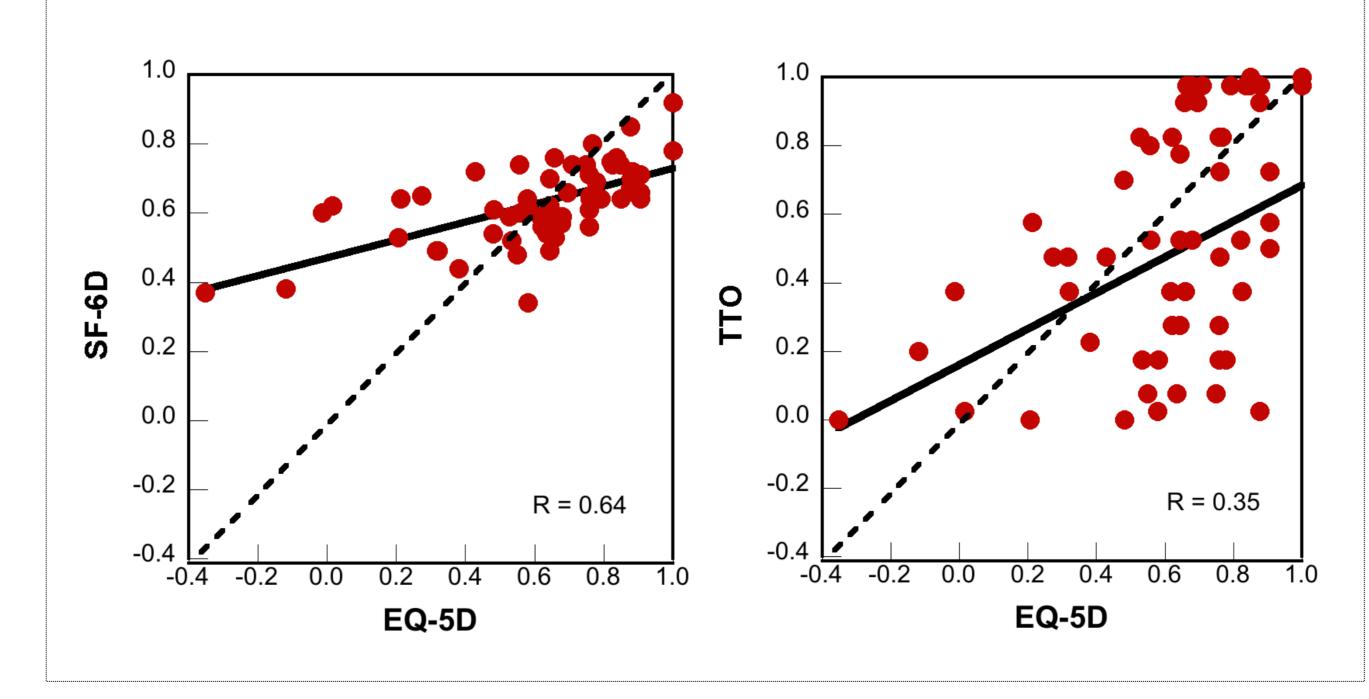
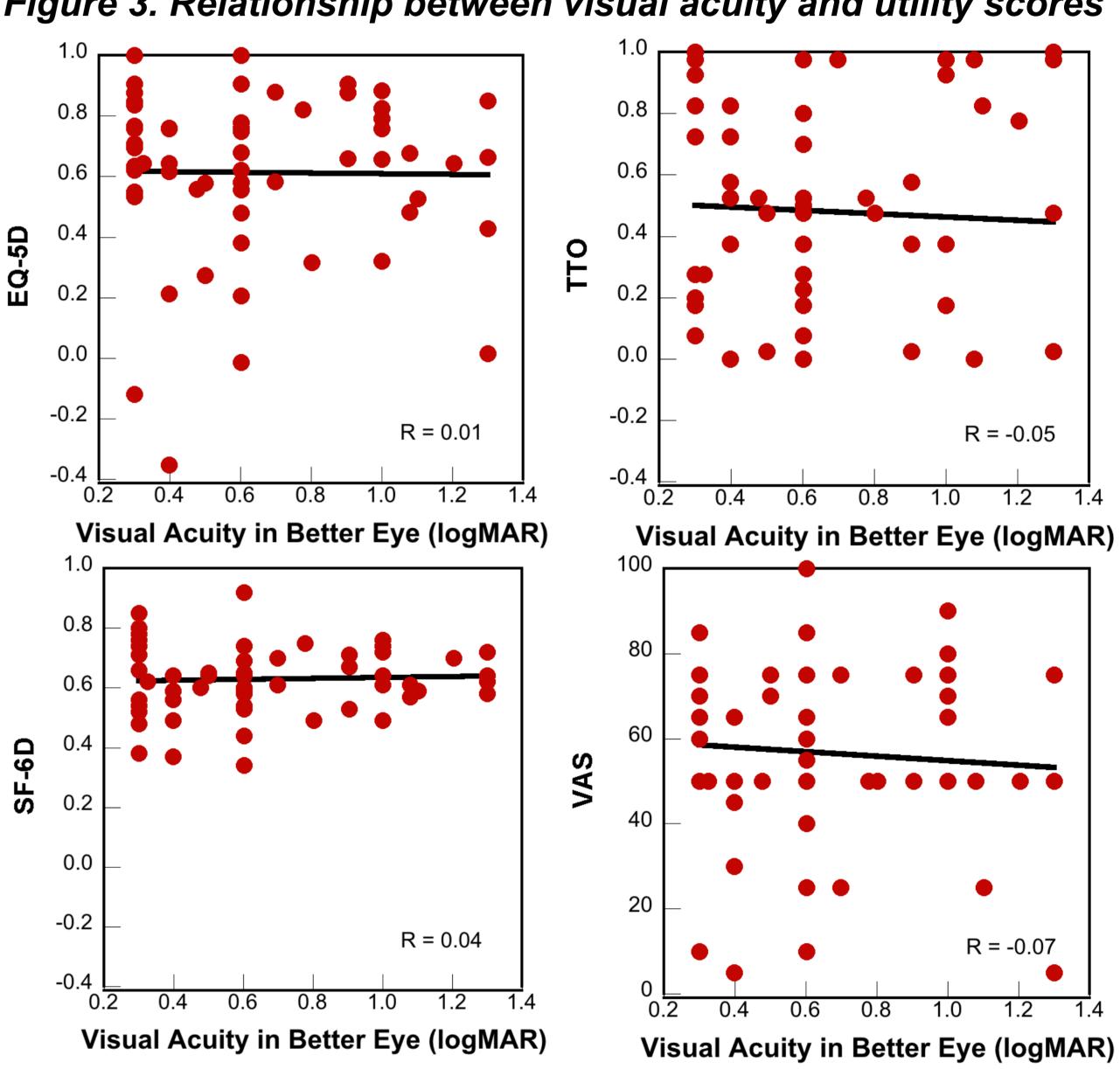


Table 2. Average health utility values Median Mean (SD) Instrument EQ-5D (public) 0.613 (0.275) 0.657 0.640 SF-6D (public) 0.628 (0.114) 0.481 (0.411) 0.488 TTO (patient)

Figure 3. Relationship between visual acuity and utility scores

56.7 (21.8)



Conclusions

VAS (patient)

- Patient and public preferences for health states associated with AMD are different, with patients valuing their health state more severely than the public tariffs of commonly used HRQoL questionnaires.
- VA did not predict health utility using any measure and therefore care should be taken when using VA as a surrogate measure for utility in health economic analyses.

Reference

[1] Brazier, J. et al. (2005). Should Patients Have a Greater Role in Valuing Health States? *Applied Health Economics and Health Policy* 4(4) p201-208.