Evidence on the conceptual measurement model of the EQ VAS: a focused literature review.

¹ Department of Epidemiology and Global Health, Umeå University, Sweden • ² LHC health Economics, University of Leeds, UK • ⁴ Department of Applied Health Research, UCL, UK ⁵ Institute for Community Medicine, University of Greifswald, GERMANY • ⁶Institute for Clinical Epidemiology and Applied Biostatistics (IKEAB), Medical University of Tübingen



Brazier J, Deverill M, Green C, Harper R, Booth A. A review of the use of health status measures in economic evaluation. Health Technol Assess 1999;3(9)

Ling-Hsiang Chuang^{1,2}, Paul Kind^{3,4}, Thomas Kohlmann⁵, Sun Sun¹, You-Shan Feng⁶

Contact Information You-Shan Feng | Email: you-shan.feng@med.uni-tuebingen.de | Tel: +49 (0) 7071 29-73403 | Fax: +49 (0) 7071 295075 | Address: Silcherstr. 5 • 72076 Tübingen, GERMANY



The EQ VAS is the only measure of overall health in the EQ fam



mily of	It is unclear what exactly the EQ VAS measures and framework might be
oped to	The objective of the study is to understand the orig the EQ VAS via a focused literature review

nd what its conceptual

igin and framework for



Discussion

***EQ VAS design**

- The valuation origin of the EQ VAS explains its inherited characteristics
- Little is known whether such a design in measuring selfrated overall health is optimal
- ✤ A limited number of qualitative studies highlight the issues around the end-point labels:
- difficulty to imagine/relate to, definitions varied by individuals
- less attention giving to worse imaginable health
- Although there is only one (approved) version of electronic EQ VAS, different presentations of EQ VAS exist based on limitations of various electronic platforms

***EQ VAS score**

- EQ VAS remotely resembles a typical VAS: literature on VAS foundation and psychometric property might not be directly applicable to EQ VAS?
- The EQ VAS, as all other VAS, is challenged whether the produced data is **ordinal** or **cardinal**.
- Should parametric or non-parametric analysis should be employed to analyze VAS data?
- The ordering effect (EQ-5D profile before EQ VAS) might explain the less consistent performances in comparison to other single-item self-rated health measures

COMPANY EQ VAS framework

- The issues around end labels present the hurdle of understanding what EQ VAS measures and what its framework might be
- Other overall health measures with several decades of quantitative and qualitative, such as 5-category selfassessed health item, can offer valuable lessons for EQ VAS

Future work

- In comparison to other research agenda in the EuroQol group, the attention/resources allocated to EQ VAS is insufficient
- Future research on the design and relevant issues of the conceptual framework and empirical function of EQ VAS are urgently warranted

EQ PROJECT 329 RA