# How Would the Choice of the Multi-Attribute Utility Instrument Affect the Cost-Effectiveness of Cancer Interventions? A Comparison of the FACT-8D and the AQoL.

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## OBJECTIVES

❖ To compare the performance of the Functional Assessment of Cancer Therapy-Eight Dimension (FACT-8D), a cancer-specific multi-attribute utility instrument derived from the FACT-General (FACT-G) questionnaire, with the Assessment of Quality of Life (AQoL) as a generic instrument.

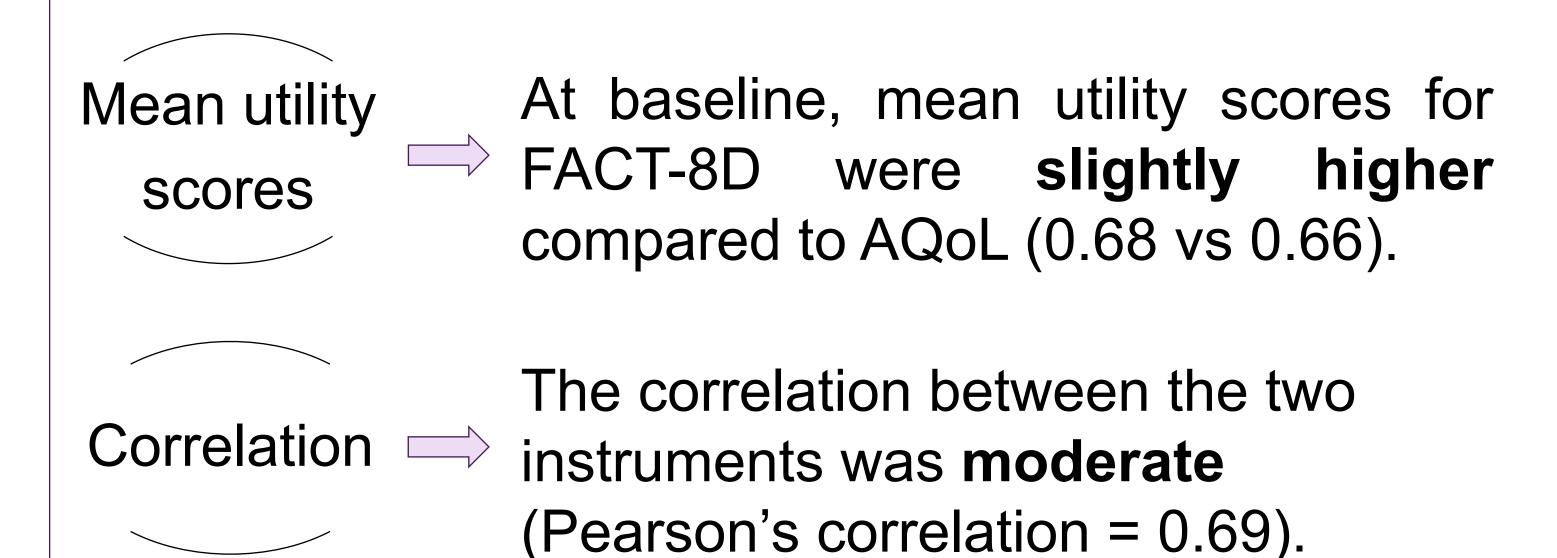
## METHODS

- HRQoL data were drawn from a previously published RCT of a home-based rehabilitation program compared to usual care in lung cancer<sup>1</sup>.
- Both the AQoL and the FACT-Lung (FACT-L) were administered at baseline, 9 weeks and 6 months.
- The FACT-8D utility values were derived from FACT-L using the algorithm developed by King et al. (2021).
- The utility values from the two instruments were compared and assessed for correlation and agreement at baseline.
- A cost-utility analysis from an Australian health system perspective was conducted.

# CONCLUSIONS

- ✓ This is the first study to compare the FACT-8D and the AQoL.
- ✓ Deriving the FACT-8D from FACIT questionnaire may offer an alternative and efficient method to measure HRQL in cancer trials.
- ✓ Further testing of the instrument in practice is required.

# RESULTS



Agreement The agreement between the two instruments was **low** (Lin's CCC = 0.69).

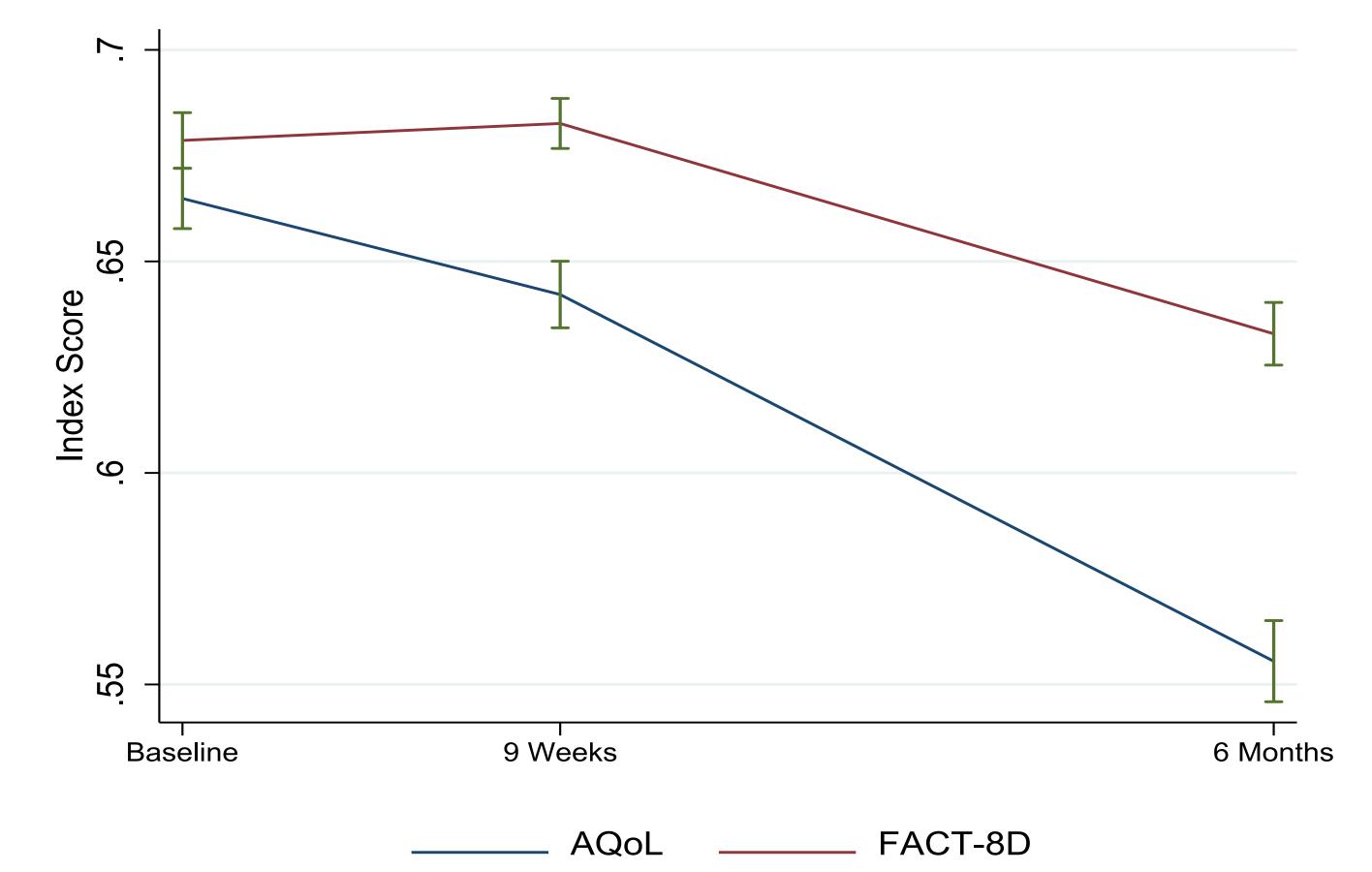


Figure 1. Change in mean utility scores derived from FACT-8D and AQoL

A slight difference was observed in the QALYs gained when using the FACT-8D compared to AQoL (-0.009 vs -0.011).

A higher incremental net monetary benefit was observed with the FACT-8D compared to the AQoL (\$1,476 vs \$1,388).

### REFERENCES

- 1. Edbrooke, L., Aranda, S. et al. (2019). Multidisciplinary home-based rehabilitation in inoperable lung cancer: a randomised controlled trial. *Thorax*, 74(8), 787.
- 2. Edbrooke, L. Aranda, S. et al. (2017). Benefits of home-based multidisciplinary exercise and supportive care in inoperable non-small cell lung cancer protocol for a phase II randomised controlled trial. *BMC Cancer*, 17(1), 663.
- 3. Edbrooke, L., Denehy, L., Cameron, P., & Tuffaha, H. (2021). Cost-effectiveness analysis of home-based rehabilitation compared to usual care for people with inoperable lung cancer. *European Journal of Cancer Care*, 30(6), e13501.

#### For more information

