

The Relationship Between ICER's Evidence Rating Matrix and Incremental QALYs

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Background & Objective

For more information on ICER's Evidence Rating Matrix, please scan QR code below.



- **ICER's Evidence Rating Matrix** distills net health benefit and uncertainty into ordered categorical grades.
- ICER's cost-effectiveness analyses use incremental quality-adjusted life years (QALYs) and other health benefit measures.
- **Objective:** To explore the relationship between Evidence Ratings and incremental QALYs.

Methods

- **Data Source:** ICER's Evidence Compendium and corresponding reports.
- **Measures:** Pairwise treatment comparisons, their respective Evidence Ratings, and incremental QALY findings.
- **Setting:** Required lifetime time horizon and published reports between 1/1/2017 and 9/1/2021 (N=83).
- **Analysis:** Collapsed Evidence Ratings into three categories based on estimated net-health benefit: Superior (incl. A, B, B+; N=65), Comparable or Better (incl. C+, C++; N=7), and Uncertain (incl. P/I, I; N=11)

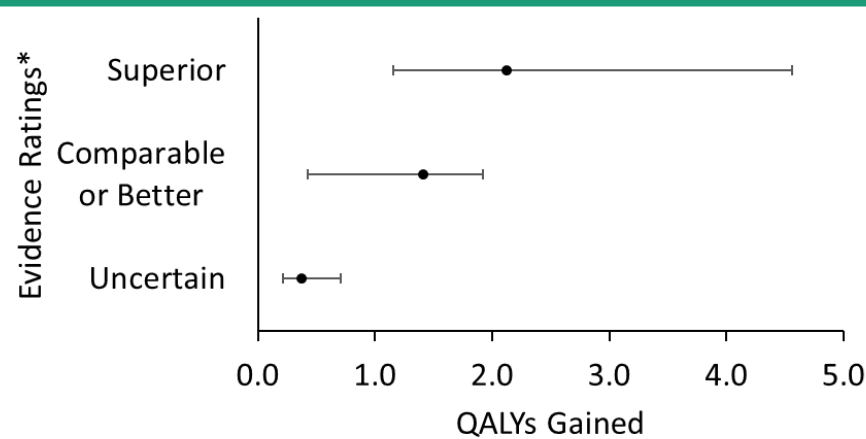
Results

Table 1. Incremental QALYs

Collapsed Evidence Ratings*	Mean (SD)	≥ 0.5, %
Superior	2.50 (2.05)	84.6
Comparable or Better	0.95 (0.69)	75.0
Uncertain	0.40 (0.29)	18.2

*Superior (incl. A, B, B+; N=65), Comparable or Better (incl. C+, C++, N=7), and Uncertain (incl. P/I, I; N=11)

Figure 1. Median Incremental QALYs (IQR)



Conclusions

- Interventions that received higher Evidence Ratings resulted in higher incremental QALYs and a higher likelihood of incremental QALYs of at least 0.5.
- Although unique, the two measures overlap within their goals.
- The findings from this descriptive study may support future within and across assessment analyses.

References

Institute for Clinical and Economic Review. 2022. Evidence Rating Matrix. <https://icer.org/evidence-rating-matrix/>. Accessed April 20, 2022.
Institute for Clinical and Economic Review. 2022. Evidence Compendium. <https://analytics.icer.org/>. Accessed April 20, 2022.

Incl.: including, IQR: interquartile range, QALY: quality-adjusted life years