

**Supplementary Material Table S3: Assessment using Quality of Health Economic Studies (QHES)**

ITEMS		WEIGHT	Dedhia 2011	Huang 2019	Kumdee 2018	Speight 2006	Subram- aniam 2009	Meij 2002
1	Was the study objective presented in a clear, specific, and measurable manner?	7	Y	Y	Y	Y	Y	Y
2	Were the perspective of the analysis (societal, third-party payer, and so on) and reasons for its selection stated?	4	Y	Y	Y	Y	Y	N
3	Were variable estimates used in the analysis from the best available source (i.e., Randomized Control Trial-Best, Expert Opinion-Worst)?	8	Y	Y	Y	Y	Y	Y
4	If estimates came from a subgroup analysis, were the groups pre-specified at the beginning of the study?	1	N	Y	Y	Y	Y	Y
5	Was uncertainty handled by: (i) statistical analysis to address random events; (ii) sensitivity analysis to cover a range of assumptions?	9	Y	Y	Y	Y	Y	Y
6	Was incremental analysis performed between alternatives for resources and costs?	6	Y	Y	Y	Y	Y	Y
7	Was the methodology for data abstraction (including value health states and other benefits) stated?	5	Y	Y	Y	Y	Y	Y
8	Did the analytic horizon allow time for all relevant and important outcomes? Were benefits and costs that went beyond 1 year discounted (3–5%), justification given for discount rate?	7	Y	N	Y	Y	N	N
9	Was the measurement of costs appropriate and the methodology for the estimation of quantities and unit costs clearly described?	8	Y	Y	Y	Y	Y	N
10	Was the primary outcome measure(s) for the economic evaluation clearly stated and were the major short term, long term and negative outcomes included?	6	Y	Y	Y	Y	Y	Y
11	Were the health outcomes measures/scales valid and reliable? If previously tested valid and reliable measures were not available, was justification given for the measures/scales used?	7	Y	Y	Y	Y	Y	Y
12	Were the economic model (including structure), study methods and analysis, and the components of the numerator and denominator displayed in a clear transparent manner?	8	Y	Y	Y	Y	Y	Y
13	Were the choice of economic model, main assumptions and limitations of the study stated and justified?	7	Y	Y	Y	Y	Y	Y
14	Did the author(s) explicitly discuss direction and magnitude of potential biases?	6	Y	Y	Y	Y	Y	Y
15	Were the conclusions/recommendations of the study justified and based on the study results?	8	Y	Y	Y	Y	Y	Y
16	Was there a statement disclosing the source of funding for the study?	3	Y	Y	Y	Y	Y	N
<b>TOTAL</b>		<b>100</b>	<b>99</b>	<b>93</b>	<b>100</b>	<b>100</b>	<b>93</b>	<b>78</b>

**Instrument**

