Shrime CEA checklist¹

Assum		
1.	Assumptions are made explicit.	1.
2.	Assumptions which bias the ICER downward are avoided	2.
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Analytic perspective and intervention definition		
1.	The base-case analysis is from the societal perspective. (Other	1.
	perspectives may be included as secondary results.)	_
2.	Results are report for the intervention studied, including the platform	2.
	and context for care delivery.	
3.	Results are not generalized beyond what is explicitly studied.	3.
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Measu	uring costs	
Which	costs to include	
1.	Costs to all levels of society are included:	1.
	a. The health ministry	a. 🗌
	b. The provider/hospital	b. 🗌
	c. The patient's direct medical costs	с. 🗌
	d. The patient's direct non-medical costs.	d. 🗌
2.	Indirect costs may be included, if available, in secondary analyses.	2.
Fixed costs		
3.	Capital costs are annualized across the lifetime of the capital, taking into	3.
	account resale value and discounting.	
4.	Labor costs are explicitly detailed or are approximated by the salaries	4.
	and benefits of the professionals in question.	_
5.	Salaries and benefits of visiting surgeons are included, if they are	5.
	involved	_
Variable provider costs		
6.	All variable costs are accounted for, including medications, supplies, and	6.
	operating room time.	_
Patient costs		
7.	Direct medical costs include anything for which a patient has to pay	7.
	because of surgery	_
8.	Direct non-medical costs include transportation, food, lodging, and	8.
	"informal payments" necessary to get care.	
9.	If caregivers commonly accompany patients, their direct costs are	9.
	included.	
Stando	ardizing costs	
	. All costs are represented as international dollars, using GDP deflators	10.
	and purchasing power parity conversion factors	

Discou	untina	
Discou	-	11 🗆
	. All future costs are discounted	11.
12	. If a life-time time horizon is used for discounting, age- and country-	12. 🔲
specific life-tables are used to determine life expectancy.		
Credibility		\square
13. The credibility of measured costs is checked against other available		13. 🔛
	data.	
Measi	. \square	
1.	DALYs averted are the primary measure of effectiveness.	1. 📙
2.	Disability weights in the Global Burden of Disease studies are used if	2. 🔲
	available. If the disability weight is unavailable, it is calculated from	
	available data using a multiplicative formulation (see equation (7)).	
3.	Subjective estimation of disability weights is avoided.	3.
4.	The credibility of disability weights estimates is confirmed by comparing	4.
	against other disability weights of the same magnitude.	
5.	All future benefits are discounted at the same rate as future costs.	5.
6.	Non-age-weighting disability weights are used as the base-case (age-	6.
	weighting may be treated in scenario analyses)	_
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Estimating probabilities		
1.	Decision trees are used to represent all possible eventualities for	1.
	patients in the analysis.	
2.	Probabilities are determined directly from data or from the literature.	2.
3.	Simplified and/or subjective probability estimates are avoided.	3.
Valuing the counterfactual		
1.	An incremental cost-effectiveness ratio, against the counterfactual of	1. 🔲
	the status quo, is reported	
2.	If a simplified, average cost/effectiveness ratio is reported—that is, if	2.
	the counterfactual is "nothing"—a strong case has been made that the	
	studied intervention is never performed in the region of interest.	
Addressing heterogeneity and uncertainty		
1.	Patient-level data are used to address heterogeneity. If patient-level	1.
	data are not available, microsimulation methods may be used.	
2.	All parameters are subjected to one-way, two-way, or probabilistic	2.
	sensitivity analyses.	
3.	Scenario analyses are included, as relevant	3.
4.	ICERs are reported with appropriate uncertainty metrics.	4.
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¹Shrime MG, Alkire BC, Grimes C, Chao TE, Poenaru T, Verguet S. Cost-effectiveness in global surgery: Pearls, pitfalls, and a checklist. *World Journal of Surgery* 2017. doi: 10.1007/s00268-017-3875-0