

Supplementary Table 1. Example calculation of the QoLI

	HRQoL (PROPr) Score	RCB	Max. RCB	Max. LOST QALY
Baseline	0.5			
Pre-Surgery	0.4	2	4.35	.54
Post-Surgery	0.3			
QALY if no treatment and QoL maintained	$0.5 \times 6.5/12^* = 0.27$ QALYs			
QALY from baseline to pre-surgery (5.5 months)	Avg HRQoL x 5.5/12* $(0.5+0.4)/2 \times 5.5/12 = 0.20$ QALYs			
QALY from pre-surgery to post-surgery (1 month)	Avg HRQoL x 1/12* $(0.4+0.3)/2 \times 1/12 = 0.05$ QALYs			
Total QALYs Lost During Treatment	$0.27 - (0.20+0.05) = 0.02$ QALYs. Thus, had they maintained baseline they would have enjoyed .02 QALYs more, which equates to 7.3 days at full health.			
Lost QALY	0.02			
QoLI	$(2/4.35) + (.02/.54) = (.46 + .04) \times -1 = -0.5$			

*Division by 12 converts the timeframe to one year and thus enables QALYs to be calculated

Assuming LOST HRQOL = .02 (as in table above)

$RCB = .02$; $QoLI = .02/4.35 + +.02/.54 = .004 + .040 = .044^* -1 = -.044$

$RCB = .01$; $QoLI = .01/4.35 + +.02/.54 = .003 + .040 = .043^* -1 = -.043 \rightarrow$ higher QoLI than line above