

#### Supplemental digital content 4 – Utilities used in the model

Utility	value	properties	Confidence interval	distribution	alpha	beta	Source
No CI children	<b>0.71</b>	Median, preoperative, HUI3	0.53-0.78	Beta	26.38	19.90	Sparreboom et al., 2012
UCI children	<b>0.76</b>	Median, 24 months postoperative, HUI3	0.62-0.82	Beta	7.55	3.09	Sparreboom et al., 2012
BCI children	<b>0.58</b>	Median, 24 months postoperative, HUI3	0.55-0.82	Beta	16.74	5.29	Sparreboom et al., 2012
No CI adults	<b>0.57</b>	Median, preoperative, HUI3	0.44-0.73*	Beta	26.15	18.94	Smulders et al., 2016
UCI adults	<b>0.74</b>	Median, 24 months postoperative, HUI3	0.51-0.85*	Beta	15.24	5.35	Smulders et al., 2016
BCI adults	<b>0.78</b>	Median, 24 months postoperative, HUI3	0.54-0.90*	Beta	12.74	3.59	Smulders et al., 2016
UCI=unilateral cochlear implant, BCI=bilateral cochlear implant, HUI3= Health Utility Index mark 3, *= estimated 95% confidence interval +-25% of value							