

S4 Table Health Outcomes and Societal Economic Benefit of Pediatric Surgical Procedures

	Intervention	Location	Unit of outcome	Outcome per procedure	Economic benefit per procedure (published or calculated)^a
Cardiac Surgery					
Costa et al (2014) ⁴⁴	Atrial septal defects: percutaneous closure	Brazil	QALY	19.74	<i>\$313,866</i>
	Atrial septal defects: surgical closure		QALY	19.71	<i>\$313,389</i>
ENT					
Wu et al (2013) ⁴⁴	Various ENT procedures	Kenya	DALY	3-7.5	<i>\$8,670-21,675</i>
General Surgery					
Jha et al (1998) ²⁹	Appendectomy	Guinea	LYS	1.86	<i>\$2,120</i>
	Inguinal hernia repair		LYS	0.71	<i>\$814</i>
Gosselin et al (2006) ²⁶	Various general surgery	Sierra Leone	DALY	1.31	<i>\$2,401</i>
Shillcutt et al (2010) ³⁶	Inguinal hernia repair	Ghana	DALY	9.32-15.29	<i>\$36,907-60,548</i>
Wang et al (2012) ³⁷	Cystic echinococcosis	China	DALY	1.03	<i>\$1,436</i>
Ilbawi et al (2013) ⁵⁰	Various general surgery	Cameroon	DALY	7.9	<i>\$23,226</i>
Shillcutt et al (2013) ³⁸	Inguinal hernia repair	Ecuador	DALY	6.39-10.79	<i>\$71,057-119,985</i>
Wu et al (2013) ⁴⁴	Various general surgery	Kenya	DALY	10-24	<i>\$28,900-69,360</i>
Eeson et al (2015) ³⁹	Inguinal hernia repair	Uganda	DALY	5.7-22	<i>\$9,633-37,180</i>
Neurosurgery					
Warf et al (2011) ⁶⁶	Hydrocephalus	Uganda	DALY	11.74-19.94	<i>\$10,438-17,508</i>
Wu et al (2013) ⁴⁴	Various neurological operations	Kenya	DALY	9-24	<i>\$26,010-69,360</i>
Davis et al (2014) ⁵⁷	Various neurological operations	Guatemala	DALY	8.12	<i>\$58,977</i>
Ophthalmology					
Baltussen et al (2005) ⁵⁵	Trichiasis surgery	Africa	DALY	1.43	<i>\$5,650</i>
		Americas	DALY	1.43	<i>\$1,589</i>
		Mediterranean	DALY	1.43	<i>\$18,337</i>
		Southeast Asia	DALY	1.43	<i>\$7,753</i>
		Western Pacific	DALY	1.43	<i>\$18,160</i>
Orthopedics					
Grimes et al (2014) ⁶⁷	Various orthopedic procedures	Malawi	DALY	1.4	<i>\$1,091</i>
Gosselin et al (2008) ⁶⁹	Various orthopedic procedures	Cambodia	DALY	4.23	<i>\$13,029</i>
Gosselin et al (2011) ⁷²	Various orthopedic procedures	Nicaragua	DALY	4.1	<i>\$35,118</i>
		Dominican Republic	DALY	4.1	<i>\$19,159</i>
		Haiti	DALY	3.51	<i>\$6,134</i>
Chen et al (2012) ⁷³	Various orthopedic procedures	Nicaragua	DALY	0.99-2.64	<i>\$4,623-12,329</i>
Wu et al (2013) ⁴⁴	Various orthopedic procedures	Kenya	DALY	5-11	<i>\$14,450-31,790</i>
Plastic and Reconstructive Surgery					
Corlew (2010) ⁶⁰	Cleft lip & palate	Nepal	DALY	2.5-16.6	<i>\$6,050-40,172</i>
Magee Jr. et al (2010) ⁶¹	Cleft lip & palate	Vietnam	DALY	0.27-11.63	<i>\$1,445-62,221</i>
		Nicaragua	DALY	0.35-9.55	<i>\$1,611-44,599</i>
		Kenya	DALY	0.36-4.50	<i>\$1,040-13,005</i>
Alkire et al (2011) ⁶²	Cleft lip & palate	Sub-Saharan Africa	DALY	3.33-7.42	<i>\$7,257-12,718</i>
Hughes et al (2012) ⁶³	Cleft lip & palate	Ecuador	DALY	3.88-10.22	<i>\$24,357-66,100</i>
Moon et al (2012) ⁶⁴	Cleft lip & palate	Vietnam	DALY	4.57-6.54	<i>\$24,450-34,989</i>
Poenaru (2013) ⁶⁵	Cleft lip & palate	Africa	DALY	3.8-9	<i>\$15,048-35,640</i>
		Americas	DALY	3.8-9	<i>\$113,696-269,279</i>
		Europe	DALY	3.8-9	<i>\$70,478-166,920</i>
		Middle East	DALY	3.8-9	<i>\$48,842-115,679</i>
		Southeast Asia	DALY	3.8-9	<i>\$20,651-48,910</i>
		Western Pacific	DALY	3.8-9	<i>\$57,544-136,287</i>
Ratray et al (2013) ⁴³	Various reconstructive procedures	Cambodia	DALY	5.2	<i>\$16,029</i>
Wu et al (2013) ⁴⁴	Various reconstructive procedures	Kenya	DALY	5-11.5	<i>\$14,450-33,235</i>
Urology					
Binagwaho et al (2010) ⁴⁵	Circumcision	Rwanda	LYG	0.04	<i>\$69</i>
Wu et al (2013) ⁴⁴	Various urologic operations	Kenya	DALY	6-13	<i>\$17,340-37,570</i>

Abbreviations include: ENT ear, nose & throat; DALY disability-adjusted life-year; LYS life-year saved; LYG life-year quality-adjusted life-year; GDP gross domestic product;

^a Values in italics were calculated using the human capital approach by multiplying the upper and lower bound estimates the most recently published PPP GNI/capita estimates obtained from the World Bank.²⁴