

Appendix Table 1. Direct Cost of Raising a Blind Child

	U.S (\$USD)	Mexico (\$USD)
Annual Miscellaneous Parental Expenses	2,996	655
Annual Educational Cost	249	959
Annual Social Security Income	2905	161
Total Annual Cost	6,150	1,775
Total Childhood Cost over 18 Yrs. (0, upper limit 95% CI)^a	84,586 (0, 239,307)	24,413 (0, 67,803)

^a Final total cost is discounted at 3% per year and adjusted for inflation in 2014 US dollars (USD).

Appendix Table 2. Direct Cost of ROP Screening

Item	Unit	Cost in U.S. (\$USD)	Cost in Mexico (\$USD)
Labor			
Nursing	<i>Cost Per Visit</i>	31	0.46
	Number of hours per visit	1	0.2
	Average Hourly Wage	31	2.3
Physician	<i>Cost Per Visit</i>	53	10
	Number of hours per patient screened	0.3	0.3
	Average Hourly Wage	177	33.3
Total Labor Costs	Cost Per Infant Screened ^a	840	105
Reusable Equipment			
30D Lens	<i>One Time cost</i>	286	323.64
Indirect Light	<i>One Time Cost</i>	1,073	3977
Import Tax	<i>One Time Cost</i>	0	410
Total Re-Usable Equipment Costs	Cost Per Infant Screened ^b	1	3.93
Single Use Equipment			
Atropine Eye Drops	<i>Cost Per Visit</i>	4	7.4
Sterilized Lid Speculum	<i>Cost Per Visit</i>	10	15
Total Single Use Equipment Cost	Cost Per Infant Screened ^a	140	224
Total Costs of Screening One Neonate		981	333
Total Cost of Screening Per Neonate Treated^{c, d}		9,821	3,228

^a Assuming each infant screened receives 10 screening visits

^b Assuming 1,200 infants screened per year and equipment lifetime of 8 years

^c Assuming 10% of neonates screened will require treatment.

^d Final total cost is discounted at 3% per year and adjusted for inflation in 2014 US dollars (USD).

Appendix Table 3. Direct Costs of ROP Laser Treatment

Item	Unit	Cost in U.S. (\$USD)
Labor		
Nursing	Cost Per Treatment	\$124
	Hours per treatment	4
	Average Hourly Wage	\$31
Physician Medicaid (or similar) reimbursement	Cost Per Treatment	\$717
Anesthesiologist/CRNA	Cost Per Treatment	\$255
	Hours per treatment	1.5
	Average Hourly Wage	\$170
Total Labor Costs	Cost Per Treatment	\$1,096
Equipment		
Laser	One Time Cost	\$27,273
Import Tax Rate	One Time Cost	\$0
Equipment Cost per Year ^a	Cost Per Year	\$2,727.30
Medication		
Topical Anesthesia	Cost Per Treatment	\$30
Lid Speculum	Cost Per Treatment	\$10
Sedation	Cost Per Treatment	\$170
Total Direct Cost for Laser Treatment^b		\$4,037

^a Assuming 1,200 infants screened per year and equipment lifetime of 8 years

^b Final total cost is discounted at 3% per year and adjusted for inflation in 2014 US dollars (USD).

Appendix Table 4. Direct Costs of Anti-VEGF Therapy

Item	Unit	Cost in US (USD)	Cost in Mexico (USD)
Labor			
Nursing	Cost Per Treatment	\$31	0.46
	Hours per Injection	1	0.2
	Average Hourly Wage	\$31	2.3
Physician	Cost Per Treatment	\$71	6.66
	Hours per Injection	0.5	0.2
	Average Hourly Wage	\$142	33.3
Anesthesiologist/CRNA	Cost Per Treatment	\$85	NA
	Hours per Injection	0.5	NA
	Average Hourly Wage	\$170	NA
Total Labor Costs	Cost Per Treatment	\$187	\$7
Medications			
Anti-VEGF Agent (Bevacizumab)	Cost Per Treatment (bilateral)	\$100	123
Anti-VEGF Agent (Ranibizumab)	Cost Per Treatment (bilateral)	\$2,067	NA
Topical Anesthesia	Cost Per Treatment	\$30	6.15
Sedation	Cost Per Treatment	\$170	260
Treatment Failure	Cost Per Treatment	\$115	123
	Cost of Laser Treatment	\$4,033	140
Total Direct Cost for Bevacizumab^a	Cost Per Treatment	\$603	\$504
Total Direct Cost for Ranibizumab^a	Cost Per Treatment	\$2,572	NA

^a Final total costs are discounted at 3% per year and adjusted for inflation in 2014 US dollars (USD).

Appendix Table 5. Direct Cost of Follow-Up

Item	Unit	Cost in U.S. (USD)	Cost in Mexico (USD)
Labor			
Nursing	Cost Per Visit	\$16	\$0.46
	Hours Per Follow-Up Visit	0.5	0.2
	Average Hourly Wage	\$31	\$2.3
Physician	Cost Per Visit	\$23	\$10
	Hours Per Follow-Up Visit	0.16	0.3
	Average Hourly Wage	\$142	\$33.3
Loss in Parental Productivity			
	Cost Per Visit	\$368	\$110
	Hours At Visit	3.3	3.65
	Hours Travelled for Visit	3.1	3.66
	Hourly GDP per capita	\$57.50	\$15.10
Cost for Follow-Up		\$1,538^{a,b}	\$2,214^{a, c}

^a Final total costs are discounted at 3% per year and adjusted for inflation in 2014 US dollars (USD).

^b For 4 follow up visits after laser treatment

^c For 20 follow-up visits after anti-VEGF injection

Appendix Table 6. Total Direct Costs of ROP Care

	Laser Retinal Ablation U.S.	Bevacizumab Mexico
Cost of Screening ^a	\$9,821	\$3,228
Cost of Treatment ^a	\$4,037	\$504
Cost of Follow-Up ^a	\$1,538	\$2,214
Total Direct Cost Per Neonate Treated^a	\$15,396	\$5,946

^a All above costs are discounted at 3% per year and adjusted for inflation in 2014 US dollars (USD).

Appendix Table 7. Indirect Cost of Lost Productivity of Parents of Blind Children

	Work Missed/ Week (Hrs)	Hourly GDP	Annual Lost GDP	Years	Total
Fathers Mexico	5.40	\$20.11 ^{20,21}	\$5,653	44 ^{26,28}	\$248,722
Mothers Mexico	13.24	\$10.09 ^{20,21}	\$6,946	44 ^{26,28}	\$305,643
Total Mexico (0, upper limit 95% CI)^a					305,584 (0, 926,331)
Fathers U.S.	2.26	\$63.25 ^{20,22}	\$7,438	20	\$148,766
Mothers U.S.	17.20	\$51.75 ^{20,22}	\$46,275	20	\$925,493
Total U.S. Before 20					\$1,074,259
U.S. Parents After 20					\$57,780 ^{23,24}
Total U.S. (0, upper limit 95% CI)^a					817,996 (0, 2,329,653)

^a Final total costs are discounted at 3% per year and adjusted for inflation in 2014 US dollars (USD).

Appendix Table 8. Indirect Cost of Lost Productivity of Blind Individuals

	Annual GDP/Capita ²⁶	Decreased Job Participation ²⁷	Years in Workforce ²⁸	Lost GDP ^a
Mexico	\$15,600	62%	47	\$142,172
U.S.	\$52,800	46%	47	\$357,019

^a Final total costs are discounted at 3% per year and adjusted for inflation in 2014 US dollars (USD).