



Appendix Table 1: Probability Distributions for Epidemiologic Inputs.

Variable	US	Brazil	Colombia	Mexico	Distribution
Annual primary bariatric/metabolic procedures	100	100	100	100	Uniform
Proportion gastric bypass procedures (%)	41%	92%	72%	86%	Beta
Gastric Bypass - Distribution of SLR Use by Procedure Type (%) - PSD/PSD-V	20%	14%	14%	14%	Joint
Gastric Bypass - Distribution of SLR Use by Procedure Type (%) - Seamguard	20%	4%	4%	4%	Joint
Gastric Bypass - Distribution of SLR Use by Procedure Type (%) - Oversewing	1%	32%	32%	32%	Joint
Sleeve Gastrectomy - Distribution of SLR Use by Procedure Type (%) - PSD/PSD-V	25%	15%	15%	15%	Joint
Sleeve Gastrectomy - Distribution of SLR Use by Procedure Type (%) - Seamguard	32%	14%	14%	14%	Joint
Sleeve Gastrectomy - Distribution of SLR Use by Procedure Type (%) - Oversewing	9%	44%	44%	44%	Joint

Appendix Table 2: Probability Distributions for Clinical Inputs.

Variable	US	Brazil	Colombia	Mexico	Distribution
Gastric Bypass - Leak Rate (%)	0.16%	1.00%	1.00%	1.00%	Beta
Gastric Bypass - Leak Rate - Difference vs. PSD/PSD-V (pp) - Seamguard	0.14	0.88	0.88	0.88	Lognormal
Gastric Bypass - Leak Rate - Difference vs. PSD/PSD-V (pp) - Oversewing	0.23	1.44	1.44	1.44	Lognormal
Gastric Bypass - Leak Rate - Difference vs. PSD/PSD-V (pp) - No SLR	0.26	1.6	1.6	1.6	Lognormal
Gastric Bypass - Bleed Rate (%)	0.41%	1.30%	1.30%	1.30%	Beta
Gastric Bypass - Bleed Rate - Difference vs. PSD/PSD-V (pp) - Seamguard	0.55	1.74	1.74	1.74	Lognormal
Gastric Bypass - Bleed Rate - Difference vs. PSD/PSD-V (pp) - Oversewing	0.58	1.82	1.82	1.82	Lognormal
Gastric Bypass - Bleed Rate - Difference vs. PSD/PSD-V (pp) - No SLR	0.59	1.85	1.85	1.85	Lognormal
Sleeve Gastrectomy - Leak Rate (%)	0.14%	1.80%	1.80%	1.80%	Beta
Sleeve Gastrectomy - Leak Rate - Difference vs. PSD/PSD-V (pp) - Seamguard	0.11	1.42	1.42	1.42	Lognormal
Sleeve Gastrectomy - Leak Rate - Difference vs. PSD/PSD-V (pp) - Oversewing	0.07	0.87	0.87	0.87	Lognormal
Sleeve Gastrectomy - Leak Rate - Difference vs. PSD/PSD-V (pp) - No SLR	0.11	1.44	1.44	1.44	Lognormal
Sleeve Gastrectomy - Bleed Rate (%)	0.12%	1.20%	1.20%	1.20%	Beta
Sleeve Gastrectomy - Bleed Rate - Difference vs. PSD/PSD-V (pp) - Seamguard	0.1	0.93	0.93	0.93	Lognormal
Sleeve Gastrectomy - Bleed Rate - Difference vs. PSD/PSD-V (pp) - Oversewing	0.13	1.25	1.25	1.25	Lognormal
Sleeve Gastrectomy - Bleed Rate - Difference vs. PSD/PSD-V (pp) - No SLR	0.39	3.78	3.78	3.78	Lognormal
Gastric Bypass - Units per procedure - PSD/PSD-V (firings)	3.7	3.7	3.7	3.7	Normal
Gastric Bypass - Units per procedure - Seamguard (firings)	2.4	2.4	2.4	2.4	Normal
Gastric Bypass - Units per procedure - Oversewing (pieces)	24	24	24	24	Normal
Sleeve Gastrectomy - Units per procedure - PSD/PSD-V (firings)	5.2	5.2	5.2	5.2	Normal
Sleeve Gastrectomy - Units per procedure - Seamguard (firings)	5.2	5.2	5.2	5.2	Normal
Sleeve Gastrectomy - Units per procedure - Oversewing (pieces)	33	33	33	33	Normal
Gastric Bypass - OR Time (minutes)	120	120	120	120	Lognormal
Gastric Bypass - OR Time - Difference vs. PSD/PSD-V (minutes) - Seamguard	3.5	3.5	3.5	3.5	Lognormal
Gastric Bypass - OR Time - Difference vs. PSD/PSD-V (minutes) - Oversewing	109	109	109	109	Lognormal
Gastric Bypass - OR Time - Difference vs. PSD/PSD-V (minutes) - No SLR	65.5	65.5	65.5	65.5	Lognormal
Sleeve Gastrectomy - OR Time (minutes)	58.8	58.8	58.8	58.8	Lognormal

Sleeve Gastrectomy - OR Time - Difference vs. PSD/PSD-V (minutes) - Seamguard	2.4	2.4	2.4	2.4	Lognormal
Sleeve Gastrectomy - OR Time - Difference vs. PSD/PSD-V (minutes) - Oversewing	14.2	14.2	14.2	14.2	Lognormal
Sleeve Gastrectomy - OR Time - Difference vs. PSD/PSD-V (minutes) - No SLR	0.3	0.3	0.3	0.3	Lognormal

Appendix Table 3: Probability Distributions for Economic Inputs.

Variable	Base - US	Base - Brazil	Base - Colombia	Base - Mexico	Distribution
Cost for SLR (per firing) - PSD/PSD-V	US\$166	R\$611	COL\$493,865	Mex\$3,199	Normal
Cost for SLR (per firing) - Seamguard	US\$167	R\$613	COL\$495,378	Mex\$3,209	Normal
Gastric Bypass - Cost for SLR (per piece) - Oversewing	US\$16	R\$59	COL\$47,377	Mex\$307	Normal
Sleeve Gastrectomy - Cost for SLR (per piece) - Oversewing	US\$5	R\$19	COL\$15,115	Mex\$98	Normal
Cost of operating room (OR) time (per hour)	US\$1,875	R\$2,593	COL\$2,094,032	Mex\$13,566	Normal
Cost of complications (per procedure) - Gastric Bypass - Leak	US\$25,010	R\$8,205	COL\$35,368,824	Mex\$480,613	Normal
Cost of complications (per procedure) - Gastric Bypass - Bleed	US\$26,036	R\$12,343	COL\$38,679,096	Mex\$500,317	Normal
Cost of complications (per procedure) - Sleeve Gastrectomy - Leak	US\$12,381	R\$3,981	COL\$17,672,244	Mex\$237,915	Normal
Cost of complications (per procedure) - Sleeve Gastrectomy - Bleed	US\$13,406	R\$8,119	COL\$20,982,516	Mex\$257,619	Normal