Supplementary Table 1 List of model scenarios

	Supplementary Table 1 List of model scenarios							
	Description							
1	10-year time horizon							
	To explore the impact of more fully accounting for health effects of ESG and costs over a longer-							
	term time horizon than the 5-year base case, also of relevance to this specific population in a							
	commercial setting.							
2	Lifetime time horizon							
	To explore the impact of more fully accounting for health effects and costs over a longer- term							
	time horizon.							
	Aligned with the Institute of Clinical and Economic Review (ICER) value assessment							
	framework[1].							
	Duration 54 years based on 100 years minus the mean age of the model cohort at baseline (46							
	years)							
3	6% annual discount rate for costs and health effects							
	To explore the impact of using an alternative discount rate to the 3% rate used in the base- case							
	analysis.							
4	0% annual discount rate for costs and health effects.							
	To explore the impact of using an alternative discount rate to the 3% rate used in the base-case							
	analysis.							

ESG: Endoscopic sleeve gastroplasty.

Supplementary Table 2 Disaggregated base-case results: QALYs

	QALYs	QALYs	Increment	Absolute	Absolute increment
				increment	
	ESG	LM alone	(ESG vs LM)	(ESG vs LM)	(ESG vs LM)
Healthy weight	0.239	0.000	0.239	0.239	72%
Overweight	1.187	0.120	1.067	1.067	321%
Obesity I	1.346	1.016	0.330	0.330	99%
Obesity II	0.674	1.278	-0.604	0.604	182%
Obesity III	0.216	0.916	-0.700	0.700	211%
Total	3.662	3.330	0.332	0.332	100%

Note: 3% annual discount rate applied to costs and health effects.

ESG: endoscopic sleeve gastroplasty, LM: lifestyle modification, QALY: quality-adjusted life year.

Supplementary Table 3 Disaggregated base-case results: Costs

	Costs, ESG	Costs,	Increment,	Absolute	Absolute
		LM alone	(ESG vs	Increment (ESG	increment (ESG vs
			LM)	vs LM)	LM)
Costs by health state, \$					
Healthy weight	1086	0	1086	1086	55%
Overweight	6661	440	6221	6221	317%
Obesity I	12462	6252	6210	6210	317%
Obesity II	9265	11884	-2619	2619	134%
Obesity III	5105	14043	-8939	8939	456%
Total	34579	32619	1960	1960	100%

Note: All costs are 2023 US\$ values; 3% annual discount rate applied to costs and health effects.

ESG: endoscopic sleeve gastroplasty, LM: lifestyle modification.

1 **Atlas SJ**, Kim K, Nhan E, Touchette DR, Moradi A, Agboola F, Rind DM, Beaudoin FL, Pearson SD. Medications for obesity management: Effectiveness and value. *J Manag Care Spec Pharm* 2023; **29**: 569-575 [PMID: 37121254 DOI: 10.18553/jmcp.2023.29.5.569]