	Population	Adults	
1	Theoretical population count	1,000,000	
2	Estimated prevalence count of anemia in the theoretical population	56,500	
3	Estimated prevalence count of iron-deficiency anemia (IDA) in the theoretical population	32,900	
4	Estimated prevalence of celiac disease in IDA in the United States	1.15%	
5	Estimated prevalence count of celiac disease in IDA patient	378	
6	TTG IgA Sensitivity	92.5%	
7	TTG IgA Specificity	97.9%	
8	Estimated number of missed celiac disease patients due to false negatives	28	
9	Estimated number of patients falsely diagnosed with celiac disease based on TTG IgA (false positives)	683	
10	Estimated additional cost of performing routine small bowel biopsies (a single biopsy specimen container) to diagnosed celiac disease during the first endoscopic encounter (Strategy 1)	\$2,869,538	
11	Estimated additional cost of starting with TTG IgA before endoscopy, followed by biopsies of TTG IgA- positive patients and iron challenge in TTG-IgA negative patients, then repeat EGD with small bowel biopsies in patients who fail iron challenge (Strategy 2)	\$967,695	
12	Estimated additional cost of performing TTG IgA after initial endoscopy, followed by repeat endoscopy with biopsies of TTG IgA-positive patients and iron challenge in TTG-IgA negative patients, then repeat EGD with small bowel biopsies in patients who fail iron challenge (Strategy 3)	\$1,506,181	
13	Difference in additional costs between Strategy 1 versus 2	\$1,901,842	
14	Difference in additional costs between Strategy 1 versus 3	\$1,363,356	
pop 3. C the 4. P 5. C cou	alculated by multiplying the estimated prevalence percentage of anemia from Ioannou GN et al. (2002) by ulation count{Ioannou, 2002 #2} alculated by multiplying the estimated prevalence percentage of iron-deficiency anemia from Ioannou GN count in line 2{Ioannou, 2002 #2} poled estimate of celiac disease prevalence in IDA in the United States. alculated by multiplying the estimated prevalence percentage of celiac disease in IDA from 4 by the estim nt of IDA from 3	l et al. (2002) b	
8. C fror	From Maglione MA et al. (2016) alculated by multiplying the estimated prevalence count of celiac disease (line 5) by the false negatives ra n line 6)	-	
defi 10.	alculated by multiplying the false positives rate (1-specificity from line 7) by the estimated count of patier ciency anemia without celiac disease (line 5 subtracted from line 3) Calculated by multiplying 3 by the additional cost of performing biopsies		
bow sma	L1. Calculated by multiplying 3 by the cost of TTG IgA, then added the product of multiplying the cost of obtaining small powel biopsies by the number of true and false positives, then added the product of multiplying the cost of endoscopy with small bowel biopsies by the number of false negatives.		
witł 13.	Calculated by multiplying 3 by the cost of TTG IgA, then added the product of multiplying the cost of repeating endoscopy h small bowel biopsies by the number of true positive, false positives, and false negatives. Calculated by subtracting 11 from 10 Calculated by subtracting 12 from 10		

14. Calculated by subtracting 12 from 10