

**Table S1** Detailed PubMed search strategy

Search step	Search query
1	"Immunotherapy" [MeSH Terms] OR "immune checkpoint inhibitors" OR "PD-1" OR "PD-L1" OR "nivolumab" OR "pembrolizumab"
2	"Esophageal Neoplasms" [MeSH Terms] OR "esophageal cancer" OR "esophageal squamous cell carcinoma" OR "esophageal adenocarcinoma"
3	"Surgery" OR "esophagectomy" OR "surgical outcomes" OR "perioperative outcomes" OR "resectability"
4	#1 AND #2 AND #3
5	Filters applied: English language, Humans, All publication years through MAY 28, 2025