

Figure S1 Flowchart of inclusion criteria for patients. MIE, minimally invasive esophagectomy.

Table S1 Univariate and multivariate Cox analysis of clinicopathological factors for DFS

Factors	Univariate analysis			Multivariate analysis		
	HR	95% CI	P value	HR	95% CI	P value
Period						
2011–2012	Ref.					
2013–2014	1.034	0.737–1.452	0.845			
2015–2017	0.832	0.589–1.175	0.297			
Age						
≤65	Ref.					
>65	1.435	1.048–1.964	0.024			
Sex						
Female	Ref.					
Male	0.815	0.588–1.128	0.218			
ASA score						
I–II	Ref.					
III–IV	1.493	1.033–2.156	0.033			
BMI (kg/m ²)						
≤18.5	Ref.					
18.5–25	1.383	0.860–2.226	0.181			
≥25	1.659	0.951–2.893	0.075			
Tumor location						
Proximal	Ref.					
Mid	1.426	0.838–2.426	0.191			
Distal	1.416	0.801–2.501	0.231			
Histologic grade						
Gx/G1	Ref.					
G2	1.086	0.820–1.437	0.566			
G3	1.189	0.733–1.929	0.484			
TNM stage						
I	Ref.			Ref.		
II	2.232	1.389–3.587	0.001	2.09	1.299–3.363	0.002
III	4.37	2.839–6.728		4.253	2.761–6.552	<0.001
IVA	8.642	4.707–15.866		8.77	4.766–16.137	<0.001
Surgical procedure						
McKeown	Ref.					
Ivor Lewis	0.825	0.543–1.252	0.366			
Lymphadenectomy						
Two-field	Ref.					
Three-field	0.823	0.536–1.261	0.371			
Blood loss (mL)						
≤100	Ref.			Ref.		
100–200	1.18	0.883–1.578	0.262	1.156	–0.863–1.547	0.331
≥200	2.443	1.612–3.702	<0.001	2.382	1.559–3.637	<0.001
Smoking status						
Never	Ref.					
Current/former	0.93	0.711–1.215	0.593			
Adjuvant chemotherapy						
No	Ref.					
Yes	1.288	0.984–1.686	0.066			
TO						
No	Ref.			Ref.		
Yes	0.674	0.516–0.881	0.004	0.756	0.576–0.992	0.044

DFS, disease-free survival; ASA, American Society of Anesthesiology; BMI, body mass index; TO, textbook outcome; HR, hazard ratio; CI, confidence interval.

Table S2 Univariate and multivariate Cox analysis of clinicopathological factors for RFS

Factors	Univariate analysis			Multivariate analysis		
	HR	95% CI	P value	HR	95% CI	P value
Period						
2011–2012	Ref.					
2013–2014	0.907	0.616–1.336	0.621			
2015–2017	0.594	0.398–0.886	0.011			
Age						
≤65	Ref.					
>65	1.323	0.903–1.938	0.151			
Sex						
Female	Ref.					
Male	0.908	0.622–1.324	0.615			
ASA score						
I–II	Ref.					
III–IV	1.503	0.977–2.310	0.063			
BMI (kg/m ²)						
≤18.5	Ref.	–				
18.5–25	1.503	0.829–2.726	0.18			
≥25	2.01	1.022–3.953	0.043			
Tumor location						
Proximal	Ref.					
Mid	1.315	0.705–2.452	0.39			
Distal	1.465	0.755–2.841	0.259			
Histologic grade						
Gx/G1	Ref.					
G2	1.175	0.837–1.649	0.351			
G3	1.448	0.834–2.514	0.189			
TNM stage						
I	Ref.			Ref.		
II	1.251	1.251–4.084	0.007	2.347	1.256–4.386	
III	4.874	2.858–8.313	<0.001	5.182	2.896–9.273	<0.001
IVA	9.922	4.833–20.369	<0.001	11.166	5.249–23.752	<0.001
Surgical procedure						
McKeown	Ref.					
Ivor Lewis	0.824	0.497–1.364	0.451			
Lymphadenectomy						
Two-field	Ref.					
Three-field	1.157	0.729–1.837	0.536			
Blood loss (mL)						
≤100	Ref.			Ref.		
100–200	1.287	0.911–1.817	0.152	1.197	0.842–1.702	0.317
≥200	2.518	1.537–4.125	<0.001	2.065	1.235–3.451	0.006
Smoking status						
Never	Ref.					
Current/former	0.89	0.647–1.224	0.474			
Adjuvant chemotherapy						
No	Ref.					
Yes	1.482	1.070–2.051	0.018			
TO						
No	Ref.			Ref.		
Yes	0.633	0.459–0.872	0.005	0.71	0.512–0.985	0.04

RFS, Recurrence-free survival; ASA, American Society of Anesthesiology; BMI, body mass index; TO, textbook outcome; HR, hazard ratio; CI, confidence interval.

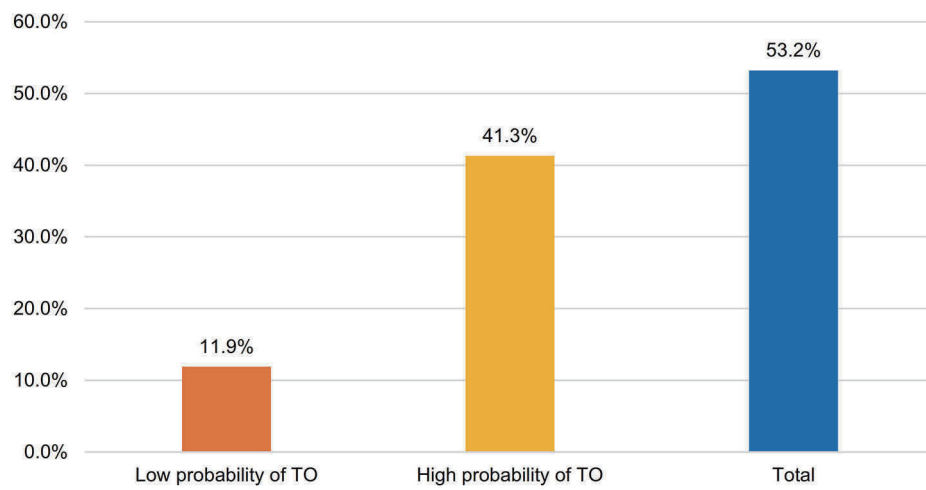


Figure S2 Nomogram prediction for the possibility of achieving TO. TO, textbook outcome.