

Supplementary Table 1: Clinical Annotation of EAC cases

Clinical Variable		EAC (n=285)
Age	Years (median, IQR)	66.95 (59.12- 73.72)
Sex	Male	241/282
	Female	41/282
Barret's associated	Positive	125/259
	Negative	134/259
Dysplasia status	Non Dysplastic	
	Dysplastic	
Siewert Type	1	63/177
	2	90/177
	3	24/177
Histopathological grading	Moderate	89/227
	moderate_to_poor	38/227
	moderate_to_well	2/227
	poor	93/227
	well	6/227
Tumour Stage	T0	6/225
	T1	44/225
	T2	26/225
	T3	126/225
	T4	23/225
Nodal involvement	Yes	142/230
	no	88/230
distant metastases	M0	113/208
	M1	5/208
	Mx	90/208
Treatment pathway	endoscopic resection	5
	surgery only	52
	chemo-radiotherapy and surgery	183
	definitive chemo-radiotherapy	6
Overall Survival	Weeks (median, IQR)	80.143(36.286-140.143)

* Denominators smaller than total cohorts indicate missing data

Supplementary Table 2: Clinical Annotation of BE cases

Clinical Variable		BE (n=150)
Age	Years (median, IQR)	68.20 (62.00- 77.00)
Sex	Male	112/134
	Female	22/134
Dysplasia status	Non-Dysplastic	85/150
	Low grade dysplasia (LGD)	31/150
	High grade dysplasia (HGD)	26/150
	Intramucosal carcinoma (IMC)	8/150
Tumour adjacent	Yes	34
	No	116

* Denominators smaller than total cohorts indicate missing data