

Supplementary Table 1. The diagnosis codes used to identify patients with esophageal and gastric cancer. The use of ICD-9 and ICD-10 overlapped, and therefore, both codes are used for searching for patients in 1995-1997.

	ICD-9 (before 1997)	ICD-10 (1995 and after)
Oesophageal cancer	150	C15
Gastric cardia cancer	151A	C16.0
Gastric cancer	151B - 151X	C16.1 - C16.9

Supplementary Table 2. The surgical codes used to identify patients undergoing surgical treatment for esophago-gastric cancer.

	THL Surgical Codes (1983-1996)	NOMESCO classification (1996 -)
Oesophageal resection	6201, 6202, 6203, 6204, 6205, 6209	JCC00, JCC10, JCC11, JCC12, JCC20, JCC30, JCC96, JCC97
Resection of the cardia	6301, 6320	Not applicable
Gastric resection:	6314, 6315, 6316, 6317, 6318, 6321, 6322, 6323, 6329	JDC00, JDC10, JDC11, JDC20, JDC30, JDC40, JDC96, JDC97, JDD00, JDD96
Endoscopic mucosal resection / Endoscopic submucosal dissection	Not applicable	JCA45, JCA52, JDA45, JDA52, JDH52

Supplementary Table 3. The definition of Charlson's comorbidity index.

The Charlson's comorbidity index will be calculated according to Armitage et al.¹ using hospital admissions up to 3 years before the index admission (surgery), and the index admission, and will exclude esophago-gastric malignancies.

Disease	ICD-10 codes
Myocardial infarction	I21*, I22*, I23*, I252
Congestive cardiac failure	I11, I13, I255, I42, I43, I50, I517
Peripheral vascular disease	I70–I73, I770, I771, K551, K558, K559, R02, Z958, Z959
Cerebrovascular disease	G45, G46, I60–I69
Dementia	A810, F00–F03, F051, G30, G31
Chronic pulmonary disease	I26, I27, J40–J45, J46*, J47, J60–J67, J684, J701, J703
Rheumatological disease	M05, M06, M09, M120, M315, M32–M36
Liver disease	B18, I85, I864, I982, K70, K71, K721, K729, K76, R162, Z944
Diabetes mellitus	E10–E14
Hemiplegia or paraplegia	G114, G81–G83
Renal disease	I12, I13, N01, N03, N05, N07, N08, N171*, N172*, N18, N19*, N25, Z49, Z940, Z992
Any malignancy	C00–C14, C17–C26, C30–C34, C37–C41, C43, C45–C58, C60–C76, C80–C85, C88, C90–C97
Metastatic solid tumour	C77–C79
AIDS/HIV infection	B20–B24

*Will be only taken into account for previous, not current, hospital admissions, because these are common complications after surgery and cause confounding to the comorbidity index.

References

1. Armitage JN, van der Meulen JH, Royal College of Surgeons Co-morbidity Consensus G. Identifying co-morbidity in surgical patients using administrative data with the Royal College of Surgeons Charlson Score. *Br J Surg* 2010;97(5):772-81. doi: 10.1002/bjs.6930