

Supplementary material

Supplementary Table 1. Multivariate analysis of predictive factors for LVI.

Characteristics	Number of patients	OR (95% CI)	P value
Histology			
Differentiated	520	Reference	
Undifferentiated	13	0.99 (0.91 -1.07)	0.772
Mixed histology	37	1.18 (1.12-1.25)	<0.001
Size (cm)	570	1.02 (1.01-1.03)	<0.001
Depth			
pM or pSM1	537	Reference	
pSM2	32	1.17 (1.11-1.24)	<0.001

pM: intramucosal, pSM1: depth of invasion less than 500 um from the muscularis mucosae, pSM2: depth of invasion 500 um or more from the muscularis mucosae.

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Supplementary Table 2. Multivariate analysis of predictive factors for incomplete resection.

Characteristics	Number of patients	OR (95% CI)	P value
Histology			
Differentiated	520	Reference	
Undifferentiated	13	1.27 (1.09-1.47)	0.002
Mixed histology	37	1.15 (1.04-1.27)	0.005
Size (cm)	570	1.03 (1.01-1.04)	0.003
Depth			
pM or pSM1	537	Reference	
pSM2	32	1.15 (1.03-1.28)	0.01

pM: intramucosal, pSM1: depth of invasion less than 500 um from the muscularis mucosae, pSM2: depth of invasion 500 um or more from the muscularis mucosae.

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Supplementary Table 3 Characteristics of patients with local recurrence of expanded-indication lesions who underwent additional treatment

Age	Sex	Macroscopic	UL	Depth	Tumor size (cm)	Histology	HM	VM	Treatment to recurrence (months)	Treatment
67	Female	0-IIa	-	pM	1.5	MD	-	-	26.4	Surgery
75	Female	0-IIa+IIc	-	pM	1	Tub1	-	-	57.2	ESD
78	Male	0-IIa	-	pM	3.6	Tub1	-	-	25.5	ESD
66	Male	0-IIa	-	pSM1	2.2	Tub1	-	-	48.3	Surgery

Tub1: well-differentiated tubular adenocarcinoma, pM: intramucosal, pSM1: depth of invasion less than 500 um from the muscularis mucosae, UL: ulceration.