S3 Table. Univariate and multivariate Cox proportional regression analyses of the metachronous recurrence in the whole cohort (n=261)

	Crude HR (95% CI)	p-value	p for trend	Adjusted HR[a] (95% CI)	p-value [a]	p for trend
MOS high[b]	4.46 (1.46-13.62)	0.009[c]		4.49 (1.45-13.86)	0.009[c]	
Atrophic gastritis	1.13 (0.13-9.66)	0.914		1.05 (0.11-10.23)	0.966	
Intestinal metaplasia	3.07 (0.41-23.09)	0.277		2.74 (0.36-21.07)	0.333	
MOS quartile						
Q1	1 (reference)			1 (reference)		
Q2	1.50 (0.37-6.05)	0.570		1.31 (0.32-5.39)	0.705	
Q3	2.88 (0.74-11.30)	0.128		2.75 (0.70-10.86)	0.149	
Q4	3.22 (0.92-11.22)	0.066	0.041[c]	2.99 (0.86-10.48)	0.086	0.049[c]
OLGA stage						
0	1 (reference)			1 (reference)		
1	1.95 (0.20-19.13)	0.568		1.81 (0.15-22.37)	0.643	
2	0.65 (0.04-10.48)	0.758		0.62 (0.03-11.30)	0.745	
3	0.67 (0.04-11.17)	0.782		0.58 (0.03-12.17)	0.727	
4	1.29 (0.08-21.82)	0.861	0.660	1.38 (0.08-24.72)	0.829	0.650
OLGIM stage						
0	1 (reference)			1 (reference)		
1	3.71 (0.43-31.87)	0.232		3.44 (0.39-30.09)	0.265	
2	2.51 (0.30-20.93)	0.396		2.39 (0.28-20.33)	0.424	
3	2.70 (0.30-24.65)	0.379		2.20 (0.23-20.90)	0.492	
4	4.08 (0.45-37.05)	0.212	0.393	3.61 (0.38-34.21)	0.263	0.537

CI, confidence interval; HR, hazard ratio; OLGA, operative link on gastritis assessment; OLGIM, operative link on gastric intestinal metaplasia assessment. [a]Adjusted for age, sex, *Helicobacter pylori* infection status, and smoking, [b]The cutoff value (35.82%) of high or low *MOS* methylation levels was determined by receiver operating curve analysis. Atrophic gastritis and intestinal metaplasia were defined as the presence of histologic atrophy (score 1-3) and intestinal metaplasia (score 1-3), respectively, at either antrum or corpus by the updated Sydney scoring system, [c]Statistically significant.