

**S1 Table.** Characteristics of the study subjects at baseline according to metachronous recurrence (n=124)

Variables	Metachronous recurrence (n=124)		p-value
	No (n=104)	Yes (n=20)	
Age (yr)	61.8±8.5	63.6±6.6	0.385
Male sex	70 (67.3)	13 (65.0)	0.841
Follow-up duration (day)	1,601.5±429.2	1,051.2±620.6	< 0.001 <sup>a)</sup>
No. of endoscopic follow-up	5.5±2.2	3.8±2.0	0.002 <sup>a)</sup>
<i>Helicobacter pylori</i> positive	38 (36.9)	5 (25.0)	0.307
Current or ex-smoker (n=120)	47 (46.5)	8 (42.1)	0.842
Current or ex-drinker (n=120)	53 (52.5)	10 (52.6)	0.996
Family history of GC in 1° relatives (n=120)	20 (19.8)	2 (10.5)	0.338
Body mass index (kg/m <sup>2</sup> )	24.3±3.3	24.2±3.3	0.849
Education (n=120)			
Elementary-Middle-High	56 (63.6)	6 (46.2)	0.227
University	32 (36.4)	7 (53.8)	
Pathology of initial lesion			
Low-grade dysplasia	28(26.9)	8 (40.0)	< 0.001 <sup>a)</sup>
High-grade dysplasia	3 (2.9)	5 (25.0)	
Adenocarcinoma	73 (70.2)	7 (35.0)	
OLGA stage (n=47)			
Stage 0	8 (20.0)	1 (14.3)	0.714
Stage 1	8 (20.0)	3 (42.9)	
Stage 2	10 (25.0)	1 (14.3)	
Stage 3	10 (25.0)	1 (14.3)	
Stage 4	4 (10.0)	1 (14.3)	
OLGIM stage (n=121)			
Stage 0	17 (16.8)	1 (5.0)	0.571
Stage 1	18 (17.8)	5 (25.0)	
Stage 2	34 (33.7)	6 (30.0)	
Stage 3	20 (19.8)	4 (20.0)	
Stage 4	12 (11.9)	4 (20.0)	
Synchronous EGCs/dysplasia <sup>b)</sup>	10 (9.6)	5 (25.0)	0.053
<i>MOS</i> methylation level (%)	38.9±15.9	49.8±20.7	0.009 <sup>a)</sup>
<i>MOS</i> methylation high <sup>c)</sup>	36 (36.4)	12 (60.0)	0.049 <sup>a)</sup>

p-values were calculated using chi-square test or Student's t test. EGC, early gastric cancer; GC, gastric cancer; OLGA, operative link on gastritis assessment; OLGIM, operative link on gastric intestinal metaplasia assessment. <sup>a)</sup>Statistically significant, <sup>b)</sup>Synchronous lesions were defined as secondary dysplasia or cancers detected within 1 year after initial diagnosis, <sup>c)</sup>*MOS* methylation high was defined as a level of methylation above the cutoff value (35.82%) determined by receiver operating curve analysis.