

## Supplementary Materials

Table S1. Multivariable regression model for false negative cases in detecting precancerous gastric lesions with pepsinogen testing (n=293)

Variables, n (%)	OR	95% CI	p – value
Sex (male)	0.94	0.51-1.74	0.85
Age (years)	1.01	0.97 – 1.05	0.77
Income (Euros) <sup>a</sup>	ref		
<250	0.58	0.33 – 1.01	0.05
250-500	0.57	0.24 – 1.39	0.22
>500			
Never smokers	Ref		
Former smokers	1.07	0.51-2.25	0.86
Current smokers	3.22	1.57-6.58	<0.01
Alcohol (per 10g increase/week)	1.07	1.01-1.14	0.03
At least 400g fruit and vegetables daily	1.03	0.60-1.75	0.93
Onion and spring onion			
once a week	Ref		
2-4 times per week	1.62	0.72-3.64	0.24
5-6 times per week	0.90	0.38-2.14	0.81
every day	1.43	0.57-3.58	0.45
Coffee			
once a week	Ref		
2-6 times per week	0.65	0.26-1.63	0.36
every day	0.77	0.36-1.67	0.51
BMI	0.99	0.70-1.39	0.93
<i>H. pylori</i> positive (biopsy)	2.54	1.50-4.28	<0.01
PPI use previous month	1.05	0.40-2.76	0.93

The false negative group (FN) was compared against the true positive (TP) group.

<sup>a</sup> monthly household income per household member after tax.

OR – odds ratio, adjusted for all the factors in the model, CI – confidence interval, IQR – interquartile range, PPI – proton pump inhibitors, ref – reference value.

Table S2. Comparison of median Pg I values by smoking status and *H. pylori* presence for participants with and without precancerous gastric lesions

	No precancerous lesions PgI ng/mL median, IQR		p value*	Precancerous lesions PgI ng/mL median, IQR		p value*
	<i>H. pylori</i> positive	<i>H. pylori</i> negative		<i>H. pylori</i> positive	<i>H. pylori</i> negative	
study population	51.51 IQR 26.7	37.87 IQR 19.31	<0.000 1	30.28 IQR 34.69	8.59 IQR 20.63	<0.0001
never smokers	51.48 IQR 26.58	35.13 IQR 17.28	<0.000 1	26.32 IQR 33.45	7.22 IQR 14.13	<0.0001
former smokers	53.14 IQR 27.55	40.41 IQR 17.04	<0.000 1	30.11 IQR 38.92	8.7 IQR 8.88	<0.0001
current smokers	50.99 IQR 25.21	46.08 IQR 18.83	0.04	40.47 IQR 38.54	34.34 IQR 33.69	0.12

\*Differences obtained using Mann-Whitney U test to compare *H. pylori* positive and negative groups. IQR – interquartile range.