

eTable 1. ICD codes for outcomes of interest

Outcome	ICD 9 code*	ICD 10 code**
Cardiovascular disease	390-459	I00-I78
Ischemic heart disease	410-414	I20-I25
Stroke	430-438	I60-69
Cancer	140-239	C00-C97
Lung cancer	162	C33-34
Gastrointestinal cancer	150-159	C15-25
Esophageal cancer	150	C15
Stomach cancer	151	C16
Pancreatic cancer	157	C25
Respiratory disease	460-519	J00-98

* ICD 9 codes were used from 1988-1998

** ICD 10 codes were used from 1999-2006 (last year of follow-up)

eTable 2. Risk of All-Cause, Cardiovascular Disease, Cancer, and Respiratory Disease Mortality in Relation to *H pylori* Status in NHANES III

	HR and 95% CI for total and cause-specific mortality by <i>H pylori/cagA</i> status			HR and 95% CI for total and cause- specific mortality by <i>H pylori</i> status	
	<i>H pylori</i> ⁻ <i>cagA</i> ⁻	<i>H pylori</i> ⁺ <i>cagA</i> ⁻	<i>H pylori</i> ⁺ <i>cagA</i> ⁺	<i>H pylori</i> ⁻	<i>H pylori</i> ⁺
Follow-up person years	46678.0	19475.6	39776.4	74820.9	72975.1
All-cause mortality					
Deaths, No.	655	530	838	673	1382
Model 1 [*]	1.00 (ref)	1.15 (0.92-1.43)	1.06 (0.87-1.28)	1.00 (ref)	1.10 (0.92-1.31)
Model 2 [†]	1.00 (ref)	1.06 (0.87-1.29)	0.98 (0.81-1.18)	1.00 (ref)	1.01 (0.86-1.18)
Cardiovascular disease					
Deaths, No.	287	241	345	288	587
Model 1 [*]	1.00 (ref)	1.00 (0.72-1.39)	0.92 (0.76-1.12)	1.00 (ref)	0.96 (0.76-1.20)
Model 2 [†]	1.00 (ref)	0.94 (0.68-1.31)	0.85 (0.70-1.04)	1.00 (ref)	0.89 (0.71-1.12)
Ischemic heart disease					
Deaths, No.	177	138	197	177	335
Model 1 [*]	1.00 (ref)	0.98 (0.68-1.40)	0.98 (0.74-1.31)	1.00 (ref)	0.98 (0.74-1.29)
Model 2 [†]	1.00 (ref)	0.93 (0.66-1.31)	0.94 (0.71-1.24)	1.00 (ref)	0.94 (0.72-1.21)
Stroke					
Deaths, No.	49	49	61	49	110
Model 1 [*]	1.00 (ref)	1.05 (0.61-1.79)	0.54 (0.32-0.90)	1.00 (ref)	0.75 (0.49-1.15)
Model 2 [†]	1.00 (ref)	1.00 (0.58-1.72)	0.45 (0.27-0.75)	1.00 (ref)	0.67 (0.44-1.04)
All cancer					
Deaths, No.	158	109	190	158	301
Model 1 [*]	1.00 (ref)	1.06 (0.73-1.54)	0.98 (0.72-1.33)	1.00 (ref)	1.02 (0.78-1.33)
Model 2 [†]	1.00 (ref)	0.97 (0.67-1.40)	0.93 (0.69-1.25)	1.00 (ref)	0.95 (0.73-1.25)
Lung cancer					
Deaths, No.	51	32	52	51	84

Model 1*	1.00 (ref)	0.83 (0.43-1.60)	0.83 (0.47-1.46)	1.00 (ref)	0.82 (0.48-1.42)
Model 2†	1.00 (ref)	0.70 (0.35-1.38)	0.77 (0.39-1.53)	1.00 (ref)	0.74 (0.40-1.37)
Gastrointestinal cancer					
Deaths, No.	28	25	50	28	76
Model 1*	1.00 (ref)	0.93 (0.43-1.98)	1.42 (0.76-2.68)	1.00 (ref)	1.21 (0.68-2.14)
Model 2†	1.00 (ref)	0.83 (0.39-1.78)	1.14 (0.55-2.34)	1.00 (ref)	1.00 (0.55-1.84)
Respiratory disease					
Deaths, No.	74	51	81	74	133
Model 1*	1.00 (ref)	0.77 (0.51-1.16)	0.98 (0.66-1.44)	1.00 (ref)	0.90 (0.67-1.20)
Model 2†	1.00 (ref)	0.70 (0.48-1.03)	1.00 (0.64-1.56)	1.00 (ref)	0.86 (0.62-1.20)
Colorectal cancer*					
Deaths, No.	12	11	21	12	32
Model 1†	1.0	0.58 (0.25-1.37)	1.44 (0.51-4.05)	1.0	1.07 (0.42-2.70)
Gastric cancer*					
Deaths, No.	17 (total events)			17 (total events)	
Model 1†	1.0	17.01 (2.50-115.92)	16.98 (3.05-94.71)	1.0	17.00 (3.13-92.29)
Esophageal cancer*					
Deaths, No.	6 (total events)			6 (total events)	
Model 1†	1.0	0.43 (0.05-3.72)	0.23 (0.02-2.29)	1.0	0.31 (0.03-2.83)
Pancreatic cancer*					
Deaths, No.	23 (total events)			8	15
Model 1†	1.0	0.20 (0.05-0.90)	0.89 (0.39-2.02)	1.0	0.59 (0.26-1.36)

Abbreviations: HR, hazard ratio; CI, confidence interval.

*HRs were adjusted for age and sex.

†HRs were adjusted for age and sex, educational attainment (years), BMI (<25, ≥25, missing), race/ethnicity, and smoking status (never/past/current).

eTable 3. Raw p-values and FDR-corrected p-values for all the comparisons conducted in the study

Outcome tested	<i>H. pylori</i> status	P –value	FDR rate
Total mortality	<i>H. pylori</i> – <i>cagA</i> -	0.75	0.93
	<i>H. pylori</i> – <i>cagA</i> +	0.75	0.93
	<i>H. pylori</i> +	0.99	0.99
CVD	<i>H. pylori</i> – <i>cagA</i> -	0.78	0.94
	<i>H. pylori</i> – <i>cagA</i> +	0.1	0.37
	<i>H. pylori</i> +	0.28	0.67
Ischemic disease	<i>H. pylori</i> – <i>cagA</i> -	0.72	0.93
	<i>H. pylori</i> – <i>cagA</i> +	0.51	0.81
	<i>H. pylori</i> +	0.52	0.81
Stroke	<i>H. pylori</i> – <i>cagA</i> -	0.872	0.95
	<i>H. pylori</i> – <i>cagA</i> +	0.004	0.045
	<i>H. pylori</i> +	0.102	0.37
All cancer	<i>H. pylori</i> – <i>cagA</i> -	0.68	0.93
	<i>H. pylori</i> – <i>cagA</i> +	0.38	0.80
	<i>H. pylori</i> +	0.42	0.81
Lung cancer	<i>H. pylori</i> – <i>cagA</i> -	0.21	0.61
	<i>H. pylori</i> – <i>cagA</i> +	0.04	0.24
	<i>H. pylori</i> +	0.07	0.36
Gastrointestinal cancer	<i>H. pylori</i> – <i>cagA</i> -	0.71	0.93
	<i>H. pylori</i> – <i>cagA</i> +	0.58	0.87
	<i>H. pylori</i> +	0.82	0.95
Respiratory disease	<i>H. pylori</i> – <i>cagA</i> -	0.08	0.36
	<i>H. pylori</i> – <i>cagA</i> +	0.92	0.95
	<i>H. pylori</i> +	0.45	0.81
Colorectal cancer	<i>H. pylori</i> – <i>cagA</i> -	0.22	0.61
	<i>H. pylori</i> – <i>cagA</i> +	0.48	0.81
	<i>H. pylori</i> +	0.87	0.95
Gastric cancer	<i>H. pylori</i> – <i>cagA</i> -	0.005	0.045
	<i>H. pylori</i> – <i>cagA</i> +	0.002	0.045

Esophageal cancer	<i>H. pylori</i> +	0.0025	0.045
	<i>H. pylori</i> - <i>cagA</i> -	0.44	0.81
	<i>H. pylori</i> - <i>cagA</i> +	0.22	0.61
Pancreatic cancer	<i>H. pylori</i> +	0.31	0.70
	<i>H. pylori</i> - <i>cagA</i> -	0.04	0.24
	<i>H. pylori</i> - <i>cagA</i> +	0.9	0.95
	<i>H. pylori</i> +	0.24	0.62
