**Suppl 1.** Socioeconomic and clinical characteristics associated with CagA positivity, individuals 40 years or older (N = 994)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ***H. pylori* (-)** | ***H. pylori* (+) CagA (-)** | ***H. pylori* (+) CagA (-)** | **P-value** |
| N | 136 | 105 | 753 |  |
| Age, mean (SD) | 59.5 (13.5) | 60.6 (12.8) | 57.0 (11.5) | **0.002** |
| Age categories |  |  |  | **0.02** |
| 40 - 49 | 41 (30.1%) | 21 (20.0%) | 224 (29.7%) |  |
| 50 - 59 | 33 (24.3%) | 31 (29.5%) | 254 (33.7%) |  |
| 60 - 69 | 27 (19.9%) | 27 (25.7%) | 151 (20.1%) |  |
| 70 - 79 | 22 (16.2%) | 16 (15.2%) | 90 (12.0%) |  |
| > 80 | 13 ( 9.6%) | 10 ( 9.5%) | 34 ( 4.5%) |  |
| Sex |  |  |  | 0.70 |
| Female | 67 (49.3%) | 56 (53.3%) | 400 (53.1%) |  |
| Male | 69 (50.7%) | 49 (46.7%) | 353 (46.9%) |  |
| Rural setting | 77 (56.6%) | 51 (48.6%) | 420 (55.8%) | 0.35 |
| Altitude (mamsl), mean (SD) | 1,072.0 (446.0) | 1,003.2 (374.4) | 1,095.8 (504.6) | 0.19 |
| Altitude > 1,000 mamsl | 67 (49.6%) | 56 (54.4%) | 382 (51.0%) | 0.76 |
| BMI, median (IQR) |  |  |  | **0.02** |
| BMI categories | 10 ( 7.5%) | 4 ( 3.9%) | 17 ( 2.3%) |  |
| Underweight | 50 (37.6%) | 48 (46.6%) | 303 (40.9%) |  |
| Normal | 49 (36.8%) | 27 (26.2%) | 237 (32.0%) |  |
| Overweight | 24 (18.0%) | 24 (23.3%) | 184 (24.8%) |  |
| Obese | 35 (25.7%) | 23 (21.9%) | 233 (30.9%) | **0.10** |
| Current tobacco smoker | 15 (11.0%) | 3 ( 2.9%) | 58 ( 7.7%) | 0.06 |
| Recent use of antibiotics | 81 (59.6%) | 67 (63.8%) | 383 (50.9%) | **0.01** |
| Refrigerator | 64 (47.1%) | 44 (41.9%) | 366 (48.6%) | 0.43 |
| Alcohol consumption | 62 (45.6%) | 33 (31.4%) | 276 (36.7%) | 0.06 |
| Electric or gas stove | 25 (18.4%) | 91 (86.7%) | 709 (94.2%) | **< 0.001** |
| *H. pylori* active infection | 33 (24.4%) | 50 (47.6%) | 676 (89.8%) | **< 0.001** |
| VacA status (positive) | 33 (24.4%) | 50 (47.6%) | 676 (89.8%) | **< 0.001** |

BMI: body mass index; CagA: cytotoxin-associated gene A; mamsl: meters above mean sea level; SD: standard deviation; VacA: vacuolating cytotoxin A.