**Suppl 7.** Fine-Gray subdistribution and cause-specific hazard ratios and 95% confidence intervals for heart- and gastric cancer-associated mortalities among patients with non-metastatic gastric adenocarcinoma undergoing *resection and chemotherapy*, who were diagnosed before 2012 with follow-up time restricted to 5 years1

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Subdistribution hazard ratios** |  | **Cause-specific hazard ratios** |
|  | **Heart diseases** | ***P*** | ***Ptrend*** | **Gastric cancer** | ***P*** | ***Ptrend*** |  | **Heart diseases** | ***P*** | ***Ptrend*** | **Gastric cancer** | ***P*** | ***Ptrend*** |
| **Period of diagnosis** | Reference: 2010-2016 |
| 2004-2009 | 1.34 (0.87-2.07) | 0.180 |  | 1.13 (1.04-1.23) | **0.004** |  |  | 1.37 (0.89-2.12) | 0.156 |  | 1.13 (1.04-1.23) | **0.003** |  |
| **Sex** | Reference: Male |
| Female | 0.93 (0.62-1.40) | 0.729 |  | 0.99 (0.92-1.07) | 0.820 |  |  | 0.90 (0.60-1.36) | 0.626 |  | 0.99 (0.92-1.07) | 0.786 |  |
| **Age group** | Reference: 60-69 years |
| < 50 years | 0.17 (0.05-0.56) | **0.004** | **< 0.001** | 0.93 (0.84-1.03) | 0.181 | **0.001** |  | 0.16 (0.05-0.52) | **0.002** | **< 0.001** | 0.90 (0.81-1.00) | **0.047** | **< 0.001** |
| 50-59 years | 0.57 (0.31-1.05) | 0.070 |  | 0.99 (0.90-1.08) | 0.767 |  |  | 0.55 (0.30-1.01) | 0.055 |  | 0.97 (0.88-1.07) | 0.523 |  |
| 70-79 years | 2.22 (1.42-3.47) | **< 0.001** |  | 1.16 (1.05-1.28) | **0.004** |  |  | 2.53 (1.62-3.95) | **< 0.001** |  | 1.23 (1.11-1.35) | **< 0.001** |  |
| ≥ 80 years | 3.52 (1.95-6.36) | **< 0.001** |  | 1.20 (1.00-1.44) | **0.048** |  |  | 4.61 (2.54-8.37) | **< 0.001** |  | 1.31 (1.11-1.54) | **0.001** |  |
| **Ethnicity** | Reference: White |
| Black | 1.48 (0.87-2.51) | 0.146 | **< 0.001** | 1.00 (0.90-1.12) | 0.938 | **< 0.001** |  | 1.56 (0.93-2.61) | 0.096 | 0.055 | 1.02 (0.92-1.14) | 0.672 | **< 0.001** |
| American Indian/Alaska Native | 2.22 (0.51-9.74) | 0.290 |  | 1.06 (0.71-1.60) | 0.771 |  |  | 2.80 (0.67-11.68) | 0.255 |  | 1.24 (0.87-1.76) | 0.233 |  |
| Asian/Pacific Islander | 0.66 (0.37-1.18) | 0.159 |  | 0.82 (0.74-0.90) | **< 0.001** |  |  | 0.60 (0.33-1.06) | 0.080 |  | 0.79 (0.72-0.87) | **< 0.001** |  |
| **Tumor location** | Reference: Gastric cardia |
| Gastric fundus/body | 0.84 (0.41-1.72) | 0.643 | 0.838 | 0.69 (0.61-0.79) | **< 0.001** | **< 0.001** |  | 0.70 (0.35-1.41) | 0.322 | 0.631 | 0.67 (0.59-0.76) | **< 0.001** | **< 0.001** |
| Gastric antrum/pylorus | 1.06 (0.65-1.70) | 0.827 |  | 0.76 (0.68-0.84) | **< 0.001** |  |  | 0.89 (0.53-1.50) | 0.657 |  | 0.73 (0.66-0.80) | **< 0.001** |  |
| Other2 | 0.85 (0.51-1.45) | 0.557 |  | 0.75 (0.68-0.83) | **< 0.001** |  |  | 0.75 (0.47-1.25) | 0.262 |  | 0.73 (0.66-0.80) | **< 0.001** |  |
| **Tumor local invasion** | Reference: Muscularis propria/subserosa |
| Lamina propria/submucosa | 1.03 (0.57-1.83) | 0.934 | 0.189 | 0.64 (0.54-0.75) | **< 0.001** | **< 0.001** |  | 0.94 (0.53-1.67) | 0.841 | 0.473 | 0.63 (0.54-0.74) | **< 0.001** | **< 0.001** |
| Serosa | 0.58 (0.35-0.96) | **0.036** |  | 1.34 (1.24-1.45) | **< 0.001** |  |  | 0.67 (0.40-1.11) | 0.118 |  | 1.39 (1.28-1.50) | **< 0.001** |  |
| Adjacent structures | 0.76 (0.35-1.66) | 0.496 |  | 1.76 (1.55-1.99) | **< 0.001** |  |  | 1.01 (0.46-2.22) | 0.974 |  | 1.84 (1.63-2.06) | **< 0.001** |  |
| **Positive lymph node count** | Reference: 0 |
| 1-2 | 0.79 (0.48-1.28) | 0.337 | 0.763 | 1.33 (1.19-1.48) | **< 0.001** | **< 0.001** |  | 0.83 (0.51-1.36) | 0.453 | 0.316 | 1.35 (1.21-1.51) | **< 0.001** | **< 0.001** |
| 3-6 | 0.73 (0.43-1.22) | 0.226 |  | 1.71 (1.54-1.90) | **< 0.001** |  |  | 0.83 (0.49-1.40) | 0.486 |  | 1.76 (1.58-1.96) | **< 0.001** |  |
| 7-15 | 0.90 (0.52-1.57) | 0.712 |  | 2.31 (2.08-2.57) | **< 0.001** |  |  | 1.33 (0.76-2.33) | 0.314 |  | 2.45 (2.20-2.73) | **< 0.001** |  |
| ≥ 16 | 0.88 (0.40-1.96) | 0.754 |  | 3.14 (2.73-3.62) | **< 0.001** |  |  | 1.66 (0.72-3.83) | 0.234 |  | 3.53 (3.08-4.05) | **< 0.001** |  |
| **Differentiation** | Reference: Poor/undifferentiated |
| Well | 1.61 (0.68-3.79) | 0.276 | 0.552 | 0.81 (0.63-1.03) | 0.083 | **< 0.001** |  | 1.44 (0.62-3.39) | 0.398 | 0.654 | 0.82 (0.63-1.05) | 0.119 | **< 0.001** |
| Intermediate | 1.03 (0.69-1.54) | 0.883 |  | 0.73 (0.67-0.80) | **< 0.001** |  |  | 0.95 (0.63-1.45) | 0.825 |  | 0.72 (0.66-0.79) | **< 0.001** |  |
| **Resection type** | Reference: Partial/subtotal gastrectomy |
| Total/near-total gastrectomy | 1.20 (0.76-1.90) | 0.427 | 0.075 | 1.20 (1.10-1.30) | **< 0.001** | **< 0.001** |  | 1.25 (0.79-1.99) | 0.339 | 0.075 | 1.21 (1.18-1.32) | **< 0.001** | **< 0.001** |
| Gastrectomy (NOS) | 1.81 (1.08-3.04) | **0.024** |  | 1.18 (1.05-1.34) | **0.008** |  |  | 1.90 (1.09-3.32) | **0.025** |  | 1.19 (1.06-1.34) | **0.005** |  |

1Adjusted for: period of diagnosis, sex, age group, ethnicity, tumor location, local invasion, positive lymph node number, differentiation grade, and resection type. Statistically significant *P* values are shown in bold.

2Lesser curvature, greater curvature, overlapping lesion of stomach, and stomach (NOS).

NOS, not otherwise specified.