**Supplementary Table 3.** Adjusted pooled hazard ratios (pHRs) and 95% confidence intervals (CIs) for the association between cigarette smoking and overall survival among 2,265 women from 7 studies with epithelial ovarian cancer (overall and by histotype), with additional adjustment for residual disease

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Overall** | | | |  | **Serous** | | | | | |  | **Mucinous** | | | | | **Endometrioid** | | | |  | **Clear cell** | | | |
|  | **Cases** | **I2 (%)** | **pHR2** | **95% CI** |  | **Cases** | **I2 (%)** | | | **pHR2** | **95% CI** |  | **Cases** | **I2 (%)** | **pHR2** | **95% CI** |  | **Cases** | **I2 (%)** | **pHR2** | **95% CI** |  | **Cases** | **I2 (%)** | **pHR2** | **95% CI** |
|  |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Smoking status3** |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Never smoker4 | 1,252 | - | 1.00 | Ref. |  | 777 | - | | | 1.00 | Ref. |  | 50 | - | 1.00 | Ref. |  | 183 | - | 1.00 | Ref. |  | 99 | - | 1.00 | Ref. |
| Former smoker | 674 | 0.0 | 1.12 | (1.00-1.27) |  | 441 | 0.0 | | | 1.16 | (1.01-1.34) |  | 27 | 0.0 | 0.85 | (0.23-3.13) |  | 104 | 23.4 | 1.61 | (0.87-2.97) |  | 38 | 60.6 | 1.10 | (0.23-5.20)1 |
| Current smoker | 339 | 25.3 | 1.26 | (1.02-1.54) |  | 214 | 54.5 | | | 1.32 | (0.96-1.82) |  | 34 |  | NA10 |  |  | 39 | 39.8 | 1.99 | (0.77-5.15) |  | 24 | 0.0 | 0.86 | (0.39-1.90) |
|  |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Cigarette consumption (per day)5** |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1-≤10 | 400 | 0.0 | 1.04 | (0.90-1.21) |  | 265 | 0.0 | | | 1.14 | (0.97-1.35) |  | 23 | 0.0 | 1.52 | (0.42-5.56) |  | 55 | 62.8 | 0.94 | (0.26-3.37)1 |  | 23 | 8.3 | 0.39 | (0.12-1.32) |
| >10-≤20 | 405 | 0.0 | 1.19 | (1.03-1.38) |  | 256 | 0.0 | | | 1.08 | (0.91-1.29) |  | 29 | 0.0 | 1.47 | (0.44-4.95) |  | 50 | 0.0 | 5.51 | (3.04-9.96) |  | 27 | 64.5 | 1.44 | (0.39-5.27)1 |
| >20 | 146 | 0.0 | 1.42 | (1.15-1.77) |  | 100 | 0.0 | | | 1.56 | (1.22-2.00) |  | 6 | 0.0 | 0.57 | (0.07-4.80) |  | 23 | 61.6 | 1.88 | (0.46-7.65) |  | 7 | 0.0 | 2.12 | (0.23-19.71) |
| Per 5 cigarettes/day6 |  | 0.0 | 1.05 | (1.01-1.09) |  |  | 0.0 | | | 1.02 | (0.97-1.07) |  |  |  | NA10 |  |  |  | 0.0 | 1.30 | (1.10-1.55) |  |  | 0.0 | 1.39 | (0.98-1.96) |
|  |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Duration of smoking before diagnosis7 (years)** |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1-≤10 | 178 | 0.0 | 0.94 | (0.76-1.17) |  | 113 | 0.0 | | | 1.02 | (0.79-1.32) |  | 8 | 0.0 | 0.22 | (0.02-2.52) |  | 32 | 49.0 | 1.53 | (0.41-5.70) |  | 6 |  | NA10 |  |
| >10-≤20 | 165 | 0.0 | 1.04 | (0.83-1.29) |  | 108 | 0.0 | | | 0.97 | (0.76-1.25) |  | 12 |  | NA10 |  |  | 20 | 26.2 | 0.68 | (0.18-2.52) |  | 10 | 12.1 | 0.91 | (0.26-3.23) |
| >20 | 625 | 0.0 | 1.28 | (1.13-1.45) |  | 406 | 0.0 | | | 1.28 | (1.11-1.48) |  | 40 | 5.2 | 2.50 | (0.85-7.34) |  | 82 | 12.3 | 2.38 | (1.37-4.16) |  | 43 | 60.7 | 1.21 | (0.37-3.95) |
| Per 5-year period6 |  | 45.6 | 1.04 | (1.00-1.08) |  |  | 52.0 | | | 1.04 | (0.99-1.10) |  |  | 46.7 | 1.09 | (0.41-2.85) |  |  | 13.3 | 1.13 | (0.98-1.29) |  |  | 30.2 | 1.07 | (0.82-1.40) |
|  |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Time from cessation to diagnosis (years)8** |  |  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1-≤10 | 138 | 0.0 | 1.45 | (1.16-1.82) |  | 88 | 8.2 | | | 1.55 | (1.15-2.09) |  | 8 | 0.0 | 2.05 | (0.33-12.89) |  | 21 | 0.0 | 1.10 | (1.79-9.37) |  | 12 | 1.1 | 1.11 | (0.22-5.67) |
| >10-≤20 | 103 | 0.0 | 1.43 | (1.11-1.84) |  | 59 | 26.1 | | | 1.29 | (0.84-1.98) |  | 8 |  | NA10 |  |  | 18 | 0.0 | 2.64 | (1.04-6.71) |  | 5 |  | NA10 |  |
| >20 | 172 | 0.0 | 0.89 | (0.71-1.11) |  | 120 | 0.0 | | | 0.96 | (0.74-1.26) |  | 3 | 0.0 | 0.46 | (0.04-5.89) |  | 28 | 0.0 | 1.00 | (0.39-2.58) |  | 9 | 26.3 | 0.15 | (0.02-1.26) |
| Per 5-year period9 |  | 0.0 | 0.94 | (0.89-0.98) |  |  | 27.5 | | | 0.94 | (0.87-1.02) |  |  | 0.0 | 0.78 | (0.51-1.20) |  |  | 46.1 | 0.95 | (0.67-1.34) |  |  | 0.0 | 0.57 | (0.34-0.94) |
|  |  |  |  |  |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Numbers may not sum up to total because of missing data

1P-value for heterogeneity <0.05

2Adjusted for: age (continuous), race/ethnicity (non-Hispanic White, Hispanic White, Black, Asian or other), tumour stage (localised, regional or distant), grade (well differentiated, moderately differentiated, poorly differentiated or undifferentiated) ) and residual disease (no macroscopic disease present vs macroscopic disease present)

3Number of studies included for analysis: overall = 7; serous = 7, mucinous = 3; endometrioid = 6; clear cell = 5

4Never smokers was used as the reference group for all categorical analyses

5Number of studies included for analysis: overall = 7; serous = 7, mucinous = 3; endometrioid = 6; clear cell = 5

6Among ever smokers

7Number of studies included for analysis: overall = 7; serous = 7, mucinous = 3; endometrioid = 6; clear cell = 5

8Number of studies included for analysis: overall = 6; serous = 5, mucinous = 2; endometrioid = 5; clear cell = 3

9Among former smokers only

10Not applicable due to unreliable model parameters (small numbers of events)