**TABLES**

**Table 1** Selected characteristics of cases and controls, PRACTICAL consortium

| Characteristic | Cases (N=14,760) | | Controls (N=12,019) | |
|---|---|---|---|---|
| **Marital status, n (%)** | | | | |
| Married/partner | 12,201 | (82.7) | 9,989 | (83.1) |
| Separated/divorced | 1,056 | (7.2) | 901 | (7.5) |
| Single | 746 | (5.1) | 684 | (5.7) |
| Widowed | 757 | (5.1) | 445 | (3.7) |
| **Age at diagnosis / interview, n (mean ± SD)** | 14,560 | (62.6 ± 7.1) | 11,989 | (60.4 ± 7.7) |
| **Ancestry, n (%)** | | | | |
| European | 12,924 | (87.6) | 11,156 | (92.8) |
| African | 519 | (3.5) | 256 | (2.1) |
| Asian | 259 | (1.8) | 292 | (2.4) |
| Other | 525 | (3.6) | 292 | (2.4) |
| *Missing* | *533* | (3.6) | *23* | (0.2) |
| **Family history of prostate cancer in a first degree relative, n (%)** | | | | |
| No | 10,692 | (72.4) | 7,767 | (64.6) |
| Yes | 3,313 | (22.5) | 1,504 | (12.5) |
| *Missing* | *755* | (5.1) | *2,748* | (22.9) |
| **Education, n (%)** | | | | |
| None | 1,792 | (12.1) | 642 | (5.3) |
| Primary or secondary school | 6,700 | (45.4) | 3,461 | (28.8) |
| University degree | 3,590 | (24.3) | 1,782 | (14.8) |
| Professional qualification | 1,697 | (11.5) | 994 | (8.3) |
| *Missing* | *981* | (6.7) | *5,140* | (42.8) |
| **Overall physical activity, n (%)** | | | | |
| Low activity or sedentary | 1,919 | (13.0) | 1,715 | (14.3) |
| Moderate activity | 2,146 | (14.5) | 1,415 | (11.8) |
| High or energetic activity | 4,034 | (27.3) | 2,690 | (22.4) |
| *Missing* | *6,661* | (45.1) | *6,199* | (51.6) |
| **Alcohol intake, n (%)** | | | | |
| No | 2,474 | (16.8) | 1,614 | (13.4) |
| Yes | 10,854 | (73.5) | 8,543 | (71.1) |
| *Missing* | *1,432* | (9.7) | *1,862* | (15.5) |
| **Smoking status, n (%)** | | | | |
| Never | 5,287 | (35.8) | 3,712 | (30.9) |
| Ex-smoker | 7,008 | (47.5) | 4,850 | (40.4) |
| Smoker | 1,862 | (12.6) | 1,739 | (14.5) |
| *Missing* | *603* | (4.1) | *1,718* | (14.3) |
| **Body Mass Index (kg/m²), n (mean ± SD)** | 13,613 | (28.1 ± 6.6) | 9,702 | (27.1 ± 4.5) |

**Table 2** Pooled ORs and 95% CI for the association between marital status and prostate cancer risk overall, and by cancer stage and grade, PRACTICAL

consortium

| | | Overall | | | By cancer stage | | | | | | | | | | By cancer grade | | | | | |
| | | | | | Local | | | Regional | | | Distant | | | Low-grade Gleason score ≤ 7 | | | High-grade Gleason score ≥ 8 | | |
| | $n_{co}$ | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Marital status** | | | | | | | | | | | | | | | | | | | |
| Married/partner | 9,989 | 12,201 | 1 | Reference | 6,981 | 1 | Reference | 1,646 | 1 | Reference | 368 | 1 | Reference | 9,233 | 1 | Reference | 1,567 | 1 | Reference |
| Separated/divorced | 901 | 1,056 | 1.04 | (0.94-1.15) | 509 | 1.02 | (0.89-1.16) | 120 | 0.95 | (0.77-1.16) | 27 | 1.18 | (0.78-1.77) | 802 | 1.02 | (0.91-1.13) | 109 | 0.92 | (0.74-1.13) |
| Single | 684 | 746 | 1.02 | (0.91-1.15) | 350 | 0.89 | (0.76-1.03) | 102 | 0.99 | (0.79-1.25) | 22 | 1.01 | (0.65-1.58) | 566 | 0.99 | (0.88-1.12) | 111 | 1.21 | (1.00-1.50) |
| Widowed | 445 | 757 | 1.19 | (1.03-1.35) | 435 | 1.14 | (0.97-1.34) | 118 | 1.53 | (1.22-1.92) | 33 | 1.56 | (1.05-2.32) | 573 | 1.18 | (1.02-1.35) | 102 | 1.11 | (0.88-1.40) |

[a]adjusted for age, study and ancestry

**Table 3** Pooled analysis restricted to the six case-control studies having less than 25% of missing data on marital status. Pooled ORs and 95% CI for the association between marital status and prostate cancer risk, overall and by cancer stage and grade, PRACTICAL consortium

| | | | | | By cancer stage | | | | | | | | | By cancer grade | | | | | |
| | **Overall** | | | | Local | | | Regional | | | Distant | | | Low-grade Gleason score ≤ 7 | | | High-grade Gleason score ≥ 8 | | |
| | $n_{co}$ | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) | $n_{ca}$ | $OR^a$ | (95% CI) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Marital status** | | | | | | | | | | | | | | | | | | | |
| Married/partner | 5,565 | 7,773 | 1 | Reference | 4,754 | 1 | Reference | 782 | 1 | Reference | 196 | 1 | Reference | 6,056 | 1 | Reference | 892 | 1 | Reference |
| Separated/divorced | 589 | 753 | 1.06 | (0.94-1.19) | 367 | 1.09 | (0.93-1.28) | 75 | 1.04 | (0.79-1.36) | 19 | 1.54 | (0.93-2.55) | 596 | 1.04 | (0.92-1.18) | 73 | 0.97 | (0.75-1.27) |
| Single | 377 | 487 | 1.06 | (0.92-1.23) | 229 | 0.95 | (0.78-1.17) | 40 | 0.93 | (0.65-1.32) | 11 | 1.35 | (0.71-2.56) | 379 | 1.01 | (0.87-1.18) | 76 | 1.62 | (1.24-2.11) |
| Widowed | 239 | 446 | 0.91 | (0.77-1.09) | 285 | 0.82 | (0.66-1.03) | 41 | 1.16 | (0.80-1.67) | 17 | 1.50 | (0.96-2.61) | 356 | 0.90 | (0.75-1.08) | 53 | 0.89 | (0.65-1.23) |

[a] adjusted for age, study and ancestry