**SUPPLEMENTARY MATERIAL**

**Supplementary Table 1.** Setting and primary diagnosis for last health care encounter <2 weeks or <1 year before completed suicide among AUD cases.

**Supplementary Table 2.** Interactions between AUD and sex in relation to health care encounter prevalence <2 weeks before index date.

**Supplementary Table 3.** Interactions between AUD and age in relation to health care encounter prevalence <2 weeks before index date.

**Supplementary Table 1. Setting and primary diagnosis for last health care encounter <2 weeks or <1 year before completed suicide among AUD cases.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Primary diagnosisa** | **Total** | **Hospital** | **Specialty clinic** | **Primary care** |
|  | **n (%)** | **n (%)** | **n (%)** | **n (%)** |
| **<2 weeks before suicide, n (% of total)** | **1,032 (100.0)** | **238 (23.1)** | **298 (28.9)** | **496 (48.1)** |
| AUD | 163 (15.8) | 73 (30.7) | 35 (11.7) | 55 (11.1) |
| Other substance use disorders | 70 (6.8) | 29 (12.2) | 13 (4.4) | 28 (5.6) |
| Other psychiatric disorders | 199 (19.3) | 44 (18.5) | 55 (18.5) | 100 (20.2) |
| Injuries | 69 (6.7) | 30 (12.6) | 29 (9.7) | 10 (2.0) |
| Other medical diagnoses | 531 (51.4) | 62 (26.0) | 166 (55.7) | 303 (61.1) |
| **<1 year before suicide, n (% of total)** | **2,420 (100.0)** | **618 (25.5)** | **787 (32.5)** | **1,015 (41.9)** |
| AUD | 479 (19.8) | 213 (34.5) | 135 (17.2) | 131 (12.9) |
| Other substance use disorders | 132 (5.5) | 63 (10.2) | 23 (2.9) | 46 (4.5) |
| Other psychiatric disorders | 463 (19.1) | 108 (17.5) | 157 (19.9) | 198 (19.5) |
| Injuries | 184 (7.6) | 65 (10.5) | 76 (9.7) | 43 (4.2) |
| Other medical diagnoses | 1,162 (48.0) | 169 (27.3) | 396 (50.3) | 597 (58.8) |

a*ICD*-10 codes: AUD (F10), other substance use disorders (F11-19), other psychiatric disorders (F00-F09, F20-F99), injuries (S00-T99), other medical diagnoses (all others).

AUD = alcohol use disorder

**Supplementary Table 2. Interactions between AUD and sex in relation to health care encounter prevalence <2 weeks before index date.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Controls** | | **AUD** | | PRs (95% CI) for AUD vs. controls within sex strata |
|  | Prevalencea | PR (95% CI)b | Prevalencea | PR (95% CI)b |
| **Sex** |  |  |  |  |  |
| Women | 8.0 | Reference | 44.7 | 3.05 (2.64, 3.52) | 3.05 (2.64, 3.52) |
| Men | 5.7 | 0.78 (0.71, 0.87) | 38.1 | 3.28 (2.92, 3.70) | 4.19 (3.75, 4.63) |
| PRs (95% CI) for men vs. women among AUD cases or controls |  | 0.78 (0.71, 0.87) |  | 1.08 (0.96, 1.19) |  |
| Interaction on additive scale: RERI (95% CI) | | | 0.45 (0.11, 0.79); *P*=0.01 | |  |
| Interaction on multiplicative scale: Ratio of PRs (95% CI) | | | 1.37 (1.17, 1.57); *P*<0.001 | |  |

PR = prevalence ratio, RERI = relative excess risk due to interaction

aPrevalence of health care encounter <2 weeks before index date.

bAdjusted for age, sex, marital status, education, drug use disorders, affective disorders, anxiety/phobia disorders, psychotic disorders, personality disorders, and other psychiatric disorders.

**Supplementary Table 3. Interactions between AUD and age in relation to health care encounter prevalence <2 weeks before index date.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Age (years)** | | | | | | PRs (95% CI) for age <35 vs. 35-64 years within case/control strata | PRs (95% CI) for age ≥65 vs. 35-64 years within case/control strata |
|  | <35 | | 35-64 | | ≥65 | |
|  | Prev.a | PR (95% CI)b | Prev.a | PR (95% CI)b | Prev.a | PR (95% CI)b |
| **Controls** | 3.6 | 0.70 (0.55, 0.88) | 6.0 | Reference | 8.2 | 1.28 (1.13, 1.45) | 0.70 (0.55, 0.88) | 1.28 (1.13, 1.45) |
| **AUD cases** | 38.6 | 4.12 (3.43, 4.96) | 40.0 | 4.13 (3.70, 4.61) | 39.3 | 4.02 (3.32, 4.88) | 1.00 (0.83, 1.17) | 0.97 (0.81, 1.14) |
| PRs (95% CI) for AUD cases vs. controls within age strata |  | 5.92 (4.28, 7.57) |  | 4.13 (3.70, 4.61) |  | 3.15 (2.60, 3.69) |  |  |
| Additive interaction: RERI | 0.29 (-0.41, 1.00); *P*=0.42 | | -- | | -0.39 (-1.04, 0.26); *P*=0.24 | |  |  |
| Multiplicative interaction: PR ratio | 1.43 (1.04, 1.83); *P*=0.03 | | -- | | 0.76 (0.62, 0.90); *P*<0.001 | |  |  |

PR = prevalence ratio, RERI = relative excess risk due to interaction

aPrevalence of health care encounter <2 weeks before index date.

bAdjusted for age, sex, marital status, education, drug use disorders, affective disorders, anxiety/phobia disorders, psychotic disorders, personality disorders, and other psychiatric disorders.