

**Supplementary Table S11.** Association of alcohol consumption frequency and alcohol intake quantity with intraocular pressure and glaucoma (alternate definitions)

|                                | IOPg (mmHg) |                     |                  | IOPcc without imputation (mmHg) |                       |                  | Glaucoma (self-report + ICD POAG) |                     |              | Glaucoma (self-report + ICD POAG/unspecified) |                     |              |
|--------------------------------|-------------|---------------------|------------------|---------------------------------|-----------------------|------------------|-----------------------------------|---------------------|--------------|---|---------------------|--------------|
|                                | $\beta$     | 95% CI              | P-value          | $\beta$                         | 95% CI                | P-value          | OR                                | 95% CI              | P-value      | OR  | 95% CI              | P-value      |
| <b>Alcohol consumption</b>     |             |                     |                  |                                 |                       |                  |                                   |                     |              |   |                     |              |
| Never                          | 0.04        | (-0.09, 0.17)       | 0.56             | 0.08                            | (-0.03, 0.20)         | 0.17             | 1.23                              | (0.94, 1.62)        | 0.14         | 1.25  | (0.95, 1.64)        | 0.11         |
| Infrequent                     |             | Reference           |                  |                                 | Reference             |                  |                                   | Reference           |              |   | Reference           |              |
| Regular                        | <b>0.22</b> | <b>(0.15, 0.30)</b> | <b>&lt;0.001</b> | <b>0.16</b>                     | <b>(0.09, 0.22)</b>   | <b>&lt;0.001</b> | 1.11                              | (0.94, 1.32)        | 0.22         | 1.13  | (0.95, 1.34)        | 0.17         |
| Former                         | -0.06       | (-0.20, 0.08)       | 0.42             | <b>-0.17</b>                    | <b>(-0.30, -0.04)</b> | <b>0.01</b>      | <b>1.51</b>                       | <b>(1.14, 1.99)</b> | <b>0.004</b> | <b>1.51</b>                                   | <b>(1.15, 2.00)</b> | <b>0.004</b> |
| <b>Alcohol intake (g/week)</b> |             |                     |                  |                                 |                       |                  |                                   |                     |              |   |                     |              |
| Per SD increase                | <b>0.18</b> | <b>(0.15, 0.21)</b> | <b>&lt;0.001</b> | <b>0.08</b>                     | <b>(0.04, 0.10)</b>   | <b>&lt;0.001</b> | <b>1.11</b>                       | <b>(1.05, 1.18)</b> | <b>0.001</b> | <b>1.11</b>                                   | <b>(1.04, 1.18)</b> | <b>0.001</b> |
| Quintiles                      |             |                     |                  |                                 |                       |                  |                                   |                     |              |   |                     |              |
| Quintile 1                     |             | Reference           |                  |                                 | Reference             |                  |                                   | Reference           |              |   | Reference           |              |
| Quintile 2                     | <b>0.15</b> | <b>(0.07, 0.23)</b> | <b>&lt;0.001</b> | <b>0.09</b>                     | <b>(0.01, 0.17)</b>   | <b>0.02</b>      | 1.09                              | (0.89, 1.33)        | 0.41         | 1.07  | (0.88, 1.31)        | 0.50         |
| Quintile 3                     | <b>0.26</b> | <b>(0.17, 0.34)</b> | <b>&lt;0.001</b> | <b>0.15</b>                     | <b>(0.07, 0.23)</b>   | <b>&lt;0.001</b> | 1.11                              | (0.91, 1.37)        | 0.30         | 1.08  | (0.89, 1.33)        | 0.44         |
| Quintile 4                     | <b>0.32</b> | <b>(0.24, 0.41)</b> | <b>&lt;0.001</b> | <b>0.16</b>                     | <b>(0.08, 0.24)</b>   | <b>&lt;0.001</b> | <b>1.24</b>                       | <b>(1.02, 1.51)</b> | <b>0.04</b>  | 1.20  | (0.99, 1.46)        | 0.07         |
| Quintile 5                     | <b>0.53</b> | <b>(0.44, 0.62)</b> | <b>&lt;0.001</b> | <b>0.24</b>                     | <b>(0.16, 0.33)</b>   | <b>&lt;0.001</b> | <b>1.38</b>                       | <b>(1.13, 1.68)</b> | <b>0.002</b> | <b>1.35</b>                                   | <b>(1.11, 1.65)</b> | <b>0.003</b> |
| $P_{\text{trend}}$             |             |                     | <b>&lt;0.001</b> |                                 |                       | <b>&lt;0.001</b> |                                   |                     | <b>0.001</b> |   |                     | <b>0.002</b> |

**Notes:** Alcohol intake quantified in regular drinkers only. Details of alcohol intake quintiles for each cohort are reported in Supplementary Table S2. All models adjusted for age, sex, ethnicity, Townsend deprivation index, assessment season, body mass index, height, systolic blood pressure, spherical equivalent, diabetes, smoking status, smoking intensity, physical activity.

**Abbreviations:** IOPg, Goldmann-correlated intraocular pressure; IOPcc, corneal-compensated intraocular pressure; ICD, International Classification of Diseases; POAG, primary open-angle glaucoma;  $\beta$ , beta-coefficient; CI, confidence interval; OR, odds ratio.