**Supplemental table 2. Relationship between any oral health problem and glaucoma among lowest versus highest quartile of genetic risk in the UK Biobank (n=18,373)**

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| --- | --- | --- |
|  | **Odds ratio****(95% confidence interval)** | ***P-value*** |
| Any oral health problem | 1.04 (0.86, 1.26) | 0.98 |
| Age (years) | 1.10 (1.08, 1.11) | <0.0001 |
| Gender |  | 0.002 |
|  Female | Reference | -- |
|  Male | 1.36 (1.13, 1.65) | <0.0001 |
| Ethnicity |  | 0.30 |
|  Caucasian | Reference | -- |
|  Asian | 1.34 (0.78, 2.30) | 0.30 |
|  Black | 0.71 (0.35, 1.42) | 0.33 |
|  Other | 0.57 (0.23, 1.41) | 0.22 |
| Townsend deprivation index | 1.02 (0.98, 1.05) | 0.39 |
| Diabetes | 1.30 (0.93, 1.81) | 0.12 |
| Alcohol |  | 0.47 |
|  Never | Reference | -- |
|  1-3 x per month | 0.73 (0.51, 1.07) | 0.10 |
|  1-2 x per week | 0.84 (0.63, 1.12) | 0.24 |
|  3-4 x per week | 0.84 (0.63, 1.13) | 0.24 |
|  Daily or almost daily | 0.93 (0.70, 1.24) | 0.62 |
| Smoker |  | 0.88 |
|  Never | Reference | -- |
|  Former | 0.96 (0.79, 1.17) | 0.70 |
|  Current | 0.92 (0.63, 1.36) | 0.69 |
| Systolic blood pressure | 1.00 (1.00, 1.01) | 0.27 |
| Body mass index kilogram/meter2 | 1.01, (0.99, 1.03) | 0.36 |
| Energy intake (kJ/day) | 1.00 (1.00, 1.00) | 0.70 |
| Physical activity METS -minutes/week | 1.00 (1.00, 1.00) | 0.15 |
| Systemic beta blocker use | 0.98 (0.69, 1.39) | 0.90 |
| Spherical equivalent (diopters) | 0.94 (0.91, 0.97) | <0.0001 |
| MTAG\_PRS lowest quartile- versus highest quartile-risk scores | 7.94 (6.16, 10.24) | <0.0001 |
| MTAG\_PRS lowest quartile- versus highest quartile-risk scores \* Any dental problem | 1.05 (0.85, 1.29) | 0.84^ |

MTAG\_PRS = multitrait glaucoma polygenic risk score.

^This p-value represents p-for-interactions