**Table 2. Adjusted odds ratio of glaucoma prevalence in association with oral health in the UK Biobank (N=33,059)**

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| --- | --- | --- |
|  | **Odds ratio****(95% confidence interval)** | ***P-value*** |
| **Any oral health problem\*** | **1.04 (0.95, 1.14)** | **0.39** |
| Age (years) | 1.10 (1.08, 1.11) | <0.0001 |
| Gender |  | 0.0005 |
|  Female | Reference | -- |
|  Male | 1.33 (1.13, 1.55) | <0.0001 |
| Ethnicity |  | 0.02 |
|  Caucasian | Reference | -- |
|  Asian | 1.80 (1.19, 2.72) | 0.005 |
|  Black | 1.52 (0.97, 2.38) | 0.07 |
|  Other | 1.19 (0.69, 2.06) | 0.53 |
| Townsend deprivation index | 1.02 (0.99, 1.05) | 0.13 |
| Diabetes | 1.56 (1.21, 2.02) | 0.0007 |
| Alcohol  |  | 0.23 |
|  Never | Reference | -- |
|  1-3 drinks x per month | 0.73 (0.53, 1.00) | 0.05 |
|  1-2 drinks x per week | 0.99 (0.78, 1.24) | 0.91 |
|  3-4 drinks x per week | 0.92 (0.73, 1.17) | 0.51 |
|  Daily or almost  daily | 1.02 (0.81, 1.29) | 0.85 |
| Smoker |  | 0.73 |
|  Never | Reference | -- |
|  Former | 1.05 (0.89, 1.23) | 0.57 |
|  Current | 0.94 (0.68, 1.28) | 0.67 |
| Systolic blood pressure (mmHg) | 1.00 (0.99, 1.00) | 0.84 |
| Body mass index kilogram/meter2 | 1.01, (0.99, 1.03) | 0.13 |
| Energy intake (kJ/day) | 1.00 (1.00, 1.00) | 0.73 |
| Physical activity METS -minutes/week | 1.00 (1.00, 1.00) | 0.56 |
| Systemic beta blocker use | 1.00 (0.75, 1.33) | 0.98 |
| Spherical equivalent (diopters) | 0.97 (0.95, 0.99) | 0.01 |
| MTAG\_PRS | 2.48 (2.34, 2.63) | <0.0001 |
| **MTAG\_PRS \* Any dental problem** | **2.48 (2.18, 2.82)** | **0.84\*\*** |

**\***Defined as history of painful or bleeding gums, toothache, loose teeth, or denture wear at the time of survey; \*\*represents a p-for-interaction.

MTAG\_PRS = multitrait glaucoma polygenic risk score; Townsend deprivation index is a measure of material deprivation based on residential address with a higher score corresponding to higher levels of poverty; METS represent metabolic equivalents