**Table 3. Association between oral health and intraocular pressure (IOP) in the UK Biobank (n=33,004)**

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| --- | --- | --- |
|  | **Difference in IOP, mmHg (95% confidence interval)** | ***P-value*** |
| **Any oral health problem\*** | **-0.08 (-0.15, -0.009)** | **0.03** |
| Age (years) | 0.05 (0.04, 0.05) | <0.0001 |
| Gender |  | <0.0001 |
|  Female | Reference | -- |
|  Male | 0.34 (0.27, 0.41) | <0.0001 |
| Ethnicity |  | 0.29 |
|  Caucasian | Reference | -- |
|  Asian | 0.06 (-0.15, 0.2826) | 0.567 |
|  Black | 0.10 (-0.11, 0.32) | 0.35 |
|  Other | -0.19 (-0.37, 0.07) | 0.07 |
| Townsend deprivation index | 0.003 (-0.42, 0.04) | 0.10 |
| Diabetes | 0.18 (0.03, 0.34) | 0.02 |
| Alcohol |  | <0.0001 |
|  Never | Reference | -- |
|  1-3 x per month | 0.04 (-0.04, 0.12) | 0.56 |
|  1-2 x per week | 0.13 (0.06, 0.19) | 0.34 |
|  3-4 x per week | 0.23 (0.16, 0.30) | <0.0001 |
|  Daily or almost  daily | 0.36 (0.29, 0.43) | <0.0001 |
| Smoker |  | 0.006 |
|  Never | Reference | -- |
|  Former | -0.02 (-0.06, 0.03) | 0.51 |
|  Current | -0.21 (-0.28, -0.13) | <0.0001 |
| Systolic blood pressure | 0.03 (0.03, 0.04) | <0.0001 |
| Body mass index kilogram/meter2 | -0.005 (-0.01, 0.002) | 0.23 |
| Energy intake (kJ/day) | 0.000003 (-0.000007, 0.00001) | 0.46 |
| Physical activity METS -minutes/week | 0.000002 (-0.00001, 0.00001) | 0.73 |
| Systemic beta blocker use | -0.53 (-0.62, -0.43) | <0.0001 |
| Spherical equivalent (diopters) | -0.13 (-0.13, -0.12) | <0.0001 |
| IOP\_PRS | 0.72 (0.70, 0.75) | <0.0001 |
| **IOP\_PRS \* Any dental problem** | **-0.02 (-0.07, 0.02)** | **0.37\*\*** |

\*Defined as history of painful or bleeding gums, toothache, loose teeth, or denture wear at the time of survey. IOP\_PRS = intraocular pressure polygenic risk score; \*\* this p-value represents a p-for-interaction. Townsend deprivation index is a measure of material deprivation based on residential address with a higher score corresponding to higher levels of poverty.