**Supplemental table 1. Relationship between individual oral health variables and glaucoma in the UK Biobank (N=33,821) and effects of glaucoma genetic risk modification.**

|  |  |  |
| --- | --- | --- |
|  | **Odds ratio****(95% confidence interval)** | ***P-value*** |
| Painful gums | 1.10 (0.70, 1.73) | 0.69 |
| MTAG\_PRS \* Painful gums |  | 0.35^ |
|  Without painful gums | 2.43 (2.22, 2.66) |  |
|  With painful gums | 2.00 (1.27, 3.16) |  |
|  |  |  |
| Bleeding gums | 0.83 (0.65, 1.07) | 0.15 |
| MTAG\_PRS \* Bleeding gums |  | 0.34^ |
|  Without bleeding gums | 2.43 (2.22, 2.66) |  |
|  With bleeding gums | 2.76 (2.18, 3.50) |  |
|  |  |  |
| Toothache | 1.10 (0.76, 1.58) | 0.61 |
| MTAG\_PRS \* Toothache |  | 0.87^ |
|  Without toothache | 2.44 (2.23, 2.67) |  |
|  With toothache | 2.40 (1.66, 3.48) |  |
|  |  |  |
| Loose teeth | 0.69 (0.43, 1.11) | 0.12 |
| MTAG\_PRS \* Loose teeth |  | 0.94^ |
|  Without loose teeth | 2.43 (2.22, 2.66) |  |
|  With loose teeth | 2.45 (1.60, 3.76) |  |
|  |  |  |
| Dentures | 0.92 (0.74, 1.13) | 0.43 |
| MTAG\_PRS \* Dentures |  | 0.65^ |
|  Without dentures | 2.44 (2.23, 2.67) |  |
|  With dentures | 2.33 (1.95, 2.78) |  |

MTAG\_PRS = multitrait glaucoma polygenic risk score; ^These p-values represent p-for-interactions.