

Supplemental Table S1. Questionnaire items related to oral health

| In the last 12 months, have you experienced the following symptoms? | | | |
|---|---|----|-----|
| | Symptom | No | Yes |
| 1 | A tooth breaking or fracturing | | |
| 2 | Tooth pain when drinking (or eating) beverages (or food) that are hot or cold | | |
| 3 | Shooting or throbbing pain in the teeth | | |
| 4 | Pain or bleeding of the gums | | |
| 5 | Throbbing pain in the tongue or the inside of the cheek | | |
| 6 | Unpleasant smell from the mouth | | |

Supplemental Table S2. Questionnaire items related to mental health

| | Question | No | Yes |
|---|---|----|-----|
| 1 | In the last 12 months, have you felt such sadness or despair that it interrupted your daily activities constantly for at least two weeks? | | |
| 2 | In the last 12 months, have you thought seriously about suicide? | | |
| 3 | In the last 12 months, have you attempted suicide? | | |

Supplemental Table S3. General characteristics of the participants

| Characteristic | Division | Frequency*, n | Weighted†, % |
|-------------------------------------|-------------------------|----------------|--------------|
| Survey year | 2008 | 75,238 | 10.9 |
| | 2009 | 75,066 | 11.0 |
| | 2010 | 73,238 | 10.8 |
| | 2011 | 75,643 | 10.6 |
| | 2012 | 74,186 | 10.4 |
| | 2013 | 72,435 | 10.2 |
| | 2014 | 72,060 | 9.8 |
| | 2015 | 68,043 | 9.3 |
| | 2016 | 65,528 | 8.8 |
| | 2017 | 62,276 | 8.4 |
| Sex | Male | 367,131 | 52.5 |
| | Female | 346,582 | 47.5 |
| Age | 12 | 55,058 | 7.2 |
| | 13 | 120,597 | 16.1 |
| | 14 | 122,613 | 16.7 |
| | 15 | 121,645 | 17.3 |
| | 16 | 120,265 | 17.4 |
| | 17 | 118,974 | 17.3 |
| | 18 | 54,561 | 8.0 |
| City size | Major city | 332,652 | 46.5 |
| | Small/medium city | 303,544 | 47.4 |
| | County region | 77,517 | 6.1 |
| School type | Middle school | 360,782 | 48.7 |
| | General high school | 275,490 | 40.6 |
| | Specialized high school | 77,441 | 10.7 |
| Economic status | Upper | 53,343 | 7.7 |
| | Middle-upper | 173,761 | 24.9 |
| | Middle | 337,252 | 47.0 |
| | Middle-lower | 115,196 | 15.8 |
| | Lower | 34,161 | 4.7 |
| Number of oral symptoms experienced | 0 | 258,653 | 36.3 |
| | 1 | 181,291 | 25.4 |
| | 2 | 128,994 | 18.1 |
| | 3 | 78,484 | 10.9 |
| | 4 | 40,503 | 5.6 |
| | 5 | 17,803 | 2.5 |
| | 6 | 7,985 | 1.1 |
| Total | | 713,713 | 100.0 |

*Frequency of the unweighted sample.

†Weighted percentages for complex sampling.