

Annex 1: bivariate analyses for relationship of elicited sensitivity to oral hygiene, dietary and personal antecedent factors

| | n | Elicited Sensitivity | | Odds Ratio (OR) | 95% Confidence Limits | | Chi Square X ² | df | P-value |
|------------------------|------|----------------------|-------|-----------------|-----------------------|--------|---------------------------|----|---------|
| | | Yes | (%) | | Lower | Upper | | | |
| Total Patients | 1349 | 443 | 32.8% | | | | | | |
| Brushing Frequency | 1265 | | | | | | | | |
| Once per day | 1009 | 308 | 30.5% | 0.667 | 0.517 | 0.861 | 10.16 | 2 | 0.006* |
| Twice per day | 247 | 101 | 40.9% | 1.537 | 1.157 | 2.042 | | | |
| Thrice per day | 9 | 2 | 22.2% | 0.582 | 0.120 | 2.815 | | | |
| Toothbrush used | 1265 | | | | | | | | |
| None | 21 | 4 | 19.0% | 0.476 | 0.159 | 1.425 | 6.40 | 4 | 0.171 |
| Manual toothbrush | 1193 | 395 | 33.1% | 1.114 | 0.776 | 1.598 | | | |
| Electric toothbrush | 26 | 7 | 26.9% | 0.750 | 0.313 | 1.796 | | | |
| Chewing stick | 18 | 2 | 11.1% | 0.252 | 0.058 | 1.102 | | | |
| Others | 7 | 3 | 42.9% | 1.538 | 0.343 | 6.899 | | | |
| Brush Movement | 1329 | | | | | | | | |
| Various motion | 403 | 140 | 34.7% | 1.130 | 0.883 | 1.445 | 10.41 | 4 | 0.034* |
| Horizontal | 334 | 115 | 34.4% | 1.100 | 0.847 | 1.428 | | | |
| Vertical | 517 | 151 | 29.2% | 0.763 | 0.602 | 0.967 | | | |
| Circular | 53 | 26 | 49.1% | 2.030 | 1.170 | 3.522 | | | |
| Don't know/Not sure | 22 | 7 | 31.8% | 0.954 | 0.386 | 2.356 | | | |
| Brush after breakfast | | | | | | | | | |
| Often | 437 | 109 | 24.9% | 0.575 | 0.446 | 0.742 | 37.42 | 4 | <0.001* |
| Occasionally | 215 | 104 | 48.4% | 2.197 | 1.634 | 2.955 | | | |
| Rarely | 240 | 79 | 32.9% | 1.004 | 0.746 | 1.352 | | | |
| Never | 303 | 106 | 35.0% | 1.132 | 0.865 | 1.482 | | | |
| Don't know | 154 | 45 | 29.2% | 0.827 | 0.572 | 1.194 | | | |
| Brush before breakfast | | | | | | | | | |
| Often | 1004 | 342 | 34.1% | 1.248 | 0.956 | 1.629 | 7.08 | 4 | 0.132 |
| Occasionally | 195 | 57 | 29.2% | 0.822 | 0.590 | 1.145 | | | |
| Rarely | 72 | 21 | 29.2% | 0.834 | 0.495 | 1.405 | | | |
| Never | 70 | 18 | 25.7% | 0.696 | 0.402 | 1.204 | | | |
| Don't know | 8 | 5 | 62.5% | 3.436 | 0.817 | 14.443 | | | |
| Brush after lunch | | | | | | | | | |
| Often | 40 | 12 | 30.0% | 0.873 | 0.440 | 1.734 | 5.89 | 4 | 0.208 |
| Occasionally | 72 | 22 | 30.6% | 0.895 | 0.535 | 1.497 | | | |

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|-------------------------------------|------|-----|-------|-------|-------|-------|-------|---|--------|
| Rarely | 533 | 162 | 30.4% | 0.831 | 0.658 | 1.051 | | | |
| Never | 687 | 238 | 34.6% | 1.182 | 0.941 | 1.484 | | | |
| Don't know | 17 | 9 | 52.9% | 2.328 | 0.892 | 6.075 | | | |
| Brush after dinner | | | | | | | | | |
| Often | 385 | 139 | 36.1% | 1.227 | 0.957 | 1.573 | 6.61 | 4 | 0.158 |
| Occasionally | 306 | 109 | 35.6% | 1.175 | 0.899 | 1.535 | | | |
| Rarely | 299 | 92 | 30.8% | 0.885 | 0.671 | 1.168 | | | |
| Never | 330 | 96 | 29.1% | 0.795 | 0.606 | 1.041 | | | |
| Don't know | 29 | 7 | 24.1% | 0.645 | 0.273 | 1.522 | | | |
| Snoring | | | | | | | | | |
| Often | 88 | 29 | 33.0% | 1.006 | 0.635 | 1.593 | 4.37 | 4 | 0.359 |
| Occasionally | 155 | 45 | 29.0% | 0.818 | 0.567 | 1.181 | | | |
| Rarely | 306 | 113 | 36.9% | 1.265 | 0.969 | 1.651 | | | |
| Never | 587 | 193 | 32.9% | 1.003 | 0.798 | 1.262 | | | |
| Don't know | 213 | 63 | 29.6% | 0.836 | 0.607 | 1.150 | | | |
| Sleeping medication/a ntidepressant | | | | | | | | | |
| Often | 23 | 10 | 43.5% | 1.586 | 0.690 | 3.647 | 3.77 | 4 | 0.439 |
| Occasionally | 64 | 21 | 32.8% | 0.999 | 0.585 | 1.705 | | | |
| Rarely | 235 | 83 | 35.3% | 1.144 | 0.851 | 1.537 | | | |
| Never | 991 | 321 | 32.4% | 0.927 | 0.718 | 1.197 | | | |
| Don't know | 36 | 8 | 22.2% | 0.577 | 0.261 | 1.276 | | | |
| Smoking | | | | | | | | | |
| Often | 50 | 20 | 40.0% | 1.381 | 0.775 | 2.460 | 3.00 | 4 | 0.558 |
| Occasionally | 90 | 28 | 31.1% | 0.918 | 0.579 | 1.457 | | | |
| Rarely | 162 | 60 | 37.0% | 1.235 | 0.878 | 1.737 | | | |
| Never | 1030 | 329 | 31.9% | 0.671 | 0.647 | 0.970 | | | |
| Don't know | 17 | 6 | 35.3% | 1.117 | 0.410 | 3.041 | | | |
| Chew gum | | | | | | | | | |
| Often | 191 | 63 | 33.0% | 1.008 | 0.728 | 1.396 | 2.28 | 4 | 0.685 |
| Occasionally | 580 | 200 | 34.5% | 1.139 | 0.906 | 1.432 | | | |
| Rarely | 333 | 103 | 30.9% | 0.890 | 0.682 | 1.162 | | | |
| Never | 216 | 70 | 32.4% | 0.977 | 0.716 | 1.333 | | | |
| Don't know | 29 | 7 | 24.1% | 0.645 | 0.273 | 1.522 | | | |
| Acidic foods | | | | | | | | | |
| Often | 345 | 128 | 37.1% | 1.304 | 1.010 | 1.684 | 5.47 | 4 | 0.243 |
| Occasionally | 591 | 190 | 32.1% | 0.946 | 0.752 | 1.190 | | | |
| Rarely | 280 | 88 | 31.4% | 0.922 | 0.695 | 1.223 | | | |
| Never | 109 | 31 | 28.4% | 0.799 | 0.518 | 1.231 | | | |
| Don't know | 23 | 5 | 21.7% | 0.563 | 0.208 | 1.527 | | | |
| Fresh fruits | | | | | | | | | |
| Often | 390 | 143 | 36.7% | 1.272 | 0.993 | 1.628 | 13.34 | 4 | 0.010* |
| Occasionally | 754 | 237 | 31.4% | 0.866 | 0.689 | 1.088 | | | |
| Rarely | 154 | 44 | 28.6% | 0.798 | 0.551 | 1.155 | | | |
| Never | 24 | 4 | 17.4% | 0.425 | 0.144 | 1.258 | | | |

| | | | | | | | | | |
|------------------------|-----|-----|-------|-------|-------|-------|-------|---|---------|
| Don't know | 27 | 15 | 55.6% | 2.611 | 1.212 | 5.627 | | | |
| Fruit/Vegetable juice | | | | | | | | | |
| Often | 340 | 139 | 40.9% | 1.604 | 1.243 | 2.069 | 19.79 | 4 | <0.001* |
| Occasionally | 711 | 213 | 30.0% | 0.759 | 0.604 | 0.953 | | | |
| Rarely | 234 | 70 | 29.9% | 0.849 | 0.625 | 1.153 | | | |
| Never | 44 | 10 | 23.3% | 0.611 | 0.298 | 1.251 | | | |
| Don't know | 20 | 11 | 55.0% | 2.538 | 1.044 | 6.170 | | | |
| Isotonic/energy drinks | | | | | | | | | |
| Often | 81 | 34 | 42.0% | 1.519 | 0.962 | 2.399 | 3.64 | 4 | 0.457 |
| Occasionally | 342 | 113 | 33.1% | 1.018 | 0.784 | 1.322 | | | |
| Rarely | 384 | 126 | 32.8% | 0.998 | 0.776 | 1.284 | | | |
| Never | 502 | 157 | 31.3% | 0.893 | 0.705 | 1.131 | | | |
| Don't know | 40 | 13 | 32.5% | 0.984 | 0.503 | 1.927 | | | |
| Soft drinks | | | | | | | | | |
| Often | 361 | 113 | 31.3% | 0.909 | 0.701 | 1.177 | 8.22 | 4 | 0.084 |
| Occasionally | 679 | 237 | 34.9% | 1.208 | 0.962 | 1.517 | | | |
| Rarely | 222 | 67 | 30.2% | 0.863 | 0.632 | 1.180 | | | |
| Never | 67 | 16 | 23.9% | 0.628 | 0.354 | 1.115 | | | |
| Don't know | 20 | 10 | 50.0% | 2.302 | 0.929 | 5.706 | | | |
| Dairy products | | | | | | | | | |
| Often | 167 | 59 | 35.3% | 1.135 | 0.808 | 1.595 | 0.97 | 4 | 0.914 |
| Occasionally | 570 | 189 | 33.2% | 1.025 | 0.815 | 1.290 | | | |
| Rarely | 446 | 144 | 32.3% | 0.963 | 0.756 | 1.227 | | | |
| Never | 126 | 38 | 30.2% | 0.872 | 0.585 | 1.299 | | | |
| Don't know | 40 | 13 | 32.5% | 1.023 | 0.521 | 2.011 | | | |

*Statistically significant. OR=1; Factor does not have effect on elicited sensitivity, OR>1; Factor associated with high odds elicited sensitivity, OR<1; Factor associated with lower odds of elicited sensitivity