

Table S1 The anterior alveolar bone thickness of different sagittal bone types

| Tooth | Site | Class I (n=41) | | Class II (n=47) | | Class III (n=42) | | Overall difference (P) | Class I-II difference (P) | Class I-III difference (P) | Class I-III difference (P) |
|------------|------|----------------|------|-----------------|------|------------------|------|------------------------|---------------------------|----------------------------|----------------------------|
| | | Mean | SD | Mean | SD | Mean | SD | | | | |
| U1 buccal | S1 | 1.32 | 0.33 | 1.30 | 0.31 | 1.33 | 0.24 | 0.861 | | | |
| | S2 | 1.30 | 0.33 | 1.23 | 0.30 | 1.26 | 0.32 | 0.628 | | | |
| | S3 | 1.15 | 0.29 | 1.06 | 0.28 | 1.20 | 0.31 | 0.092 | | | |
| U1 lingual | S1 | 1.39 | 0.33 | 1.43 | 0.45 | 1.50 | 0.52 | 0.521 | | | |
| | S2 | 2.34 | 0.56 | 2.46 | 1.10 | 2.30 | 0.73 | 0.788 | | | |
| | S3 | 3.25 | 0.98 | 3.60 | 1.62 | 3.03 | 0.92 | 0.273 | | | |
| U2 buccal | S1 | 1.23 | 0.31 | 1.18 | 0.31 | 1.39 | 0.59 | 0.202 | | | |
| | S2 | 1.07 | 0.43 | 1.01 | 0.31 | 1.14 | 0.64 | 0.989 | | | |
| | S3 | 0.75 | 0.34 | 0.76 | 0.27 | 0.87 | 0.50 | 0.306 | | | |
| U2 lingual | S1 | 1.28 | 0.29 | 1.20 | 0.33 | 1.25 | 0.35 | 0.491 | | | |
| | S2 | 2.02 | 0.52 | 1.93 | 0.75 | 1.77 | 0.58 | 0.206 | | | |
| | S3 | 2.82 | 0.88 | 2.81 | 1.12 | 2.49 | 0.80 | 0.192 | | | |
| U3 buccal | S1 | 1.25 | 0.40 | 1.26 | 0.33 | 1.18 | 0.31 | 0.370 | | | |
| | S2 | 1.13 | 0.52 | 1.24 | 0.44 | 1.05 | 0.36 | 0.143 | | | |
| | S3 | 0.91 | 0.49 | 0.97 | 0.43 | 0.89 | 0.33 | 0.611 | | | |
| U3 lingual | S1 | 1.32 | 0.34 | 1.33 | 0.38 | 1.30 | 0.46 | 0.931 | | | |
| | S2 | 2.00 | 0.58 | 2.20 | 0.88 | 1.83 | 0.63 | 0.063 | | | |
| | S3 | 3.00 | 1.11 | 3.39 | 1.44 | 2.58 | 0.77 | 0.005** | 0.247 | 0.227 | 0.003** |
| L1 buccal | S1 | 0.98 | 0.27 | 0.99 | 0.36 | 0.84 | 0.29 | 0.066 | | | |
| | S2 | 0.81 | 0.28 | 0.84 | 0.35 | 0.72 | 0.21 | 0.185 | | | |
| | S3 | 0.93 | 0.35 | 0.90 | 0.31 | 0.78 | 0.29 | 0.098 | | | |
| L1 lingual | S1 | 0.81 | 0.25 | 0.82 | 0.25 | 0.83 | 0.29 | 0.960 | | | |
| | S2 | 1.22 | 0.48 | 1.27 | 0.46 | 1.14 | 0.53 | 0.455 | | | |
| | S3 | 1.73 | 0.74 | 1.69 | 0.73 | 1.51 | 0.86 | 0.383 | | | |
| L2 buccal | S1 | 1.01 | 0.33 | 1.05 | 0.48 | 0.89 | 0.23 | 0.234 | | | |
| | S2 | 0.79 | 0.46 | 0.87 | 0.45 | 0.67 | 0.16 | 0.403 | | | |
| | S3 | 0.69 | 0.33 | 0.68 | 0.23 | 0.68 | 0.19 | 0.953 | | | |
| L2 lingual | S1 | 0.94 | 0.30 | 0.91 | 0.25 | 0.84 | 0.29 | 0.249 | | | |
| | S2 | 1.47 | 0.52 | 1.49 | 0.49 | 1.24 | 0.57 | 0.058 | | | |
| | S3 | 1.92 | 0.74 | 1.89 | 0.72 | 1.58 | 0.85 | 0.079 | | | |
| L3 buccal | S1 | 0.90 | 0.33 | 0.92 | 0.36 | 0.81 | 0.24 | 0.226 | | | |
| | S2 | 0.73 | 0.29 | 0.70 | 0.34 | 0.71 | 0.19 | 0.220 | | | |
| | S3 | 0.76 | 0.30 | 0.68 | 0.24 | 0.69 | 0.23 | 0.298 | | | |
| L3 lingual | S1 | 1.06 | 0.36 | 1.08 | 0.37 | 0.92 | 0.30 | 0.071 | | | |
| | S2 | 1.81 | 0.74 | 1.85 | 0.63 | 1.57 | 0.71 | 0.133 | | | |
| | S3 | 2.44 | 1.02 | 2.51 | 0.91 | 2.13 | 1.05 | 0.167 | | | |

**, P<0.01. U1, maxillary central incisor; U2, maxillary lateral incisor; U3, maxillary canine; L1, mandibular central incisor; L2, mandibular lateral incisor; L3, mandibular canine.