CHAPTER 6

Conclusions

The palatal bone thicknesses at almost all AP sites along the ML3, ML6 and ML9 sections in the Class I open bite group were significantly less than those in the Class I normal bite group. These results suggest that palatal bone thickness varies, and that only some palatal sites (with 5.0 mm or greater than 5.0 mm of palatal bone thickness) are appropriate for miniscrew implant placement. In addition, the palatal cortical bone thicknesses at some AP/ML sites in the Class I open bite group were significantly less than those in the Class I normal bite group. However, all palatal areas in both groups provided adequate palatal cortical bone thickness for the stability of miniscrew implants. This study suggests that all AP sites along the ML0 section in the Class I open bite group, and along the ML0 and ML3 sections in the Class I normal bite group are suitable for palatal miniscrew implant placement in the patients, who are older than 15 years old.