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Safe zones, guidelines for mini-plates use in orthodontics

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Nowadays titanium mini-plates are used as a reliable source of absolute anchorage for orthodontic and facial orthopedic movement. Mini-plates are generally used apical to dental roots in order to not interfere with dental movements. Cortical bone thickness and density are found to be essential to induce a strong primary stability, the most important factor in anchorage success. Since mini-plates induce a stronger primary stability than single mini-screw, they are a valid alternative when a heavy load is necessary or when other absolute anchorage devices fail. A recent research made by University of Padua, Department of Orthodontics, investigated onto cortical bone thickness (mm) and density (HU) in relation to age, gender and skeletal Angle class. No differences were found between groups regarding cortical bone thickness (p-value<0.05). Differences in cortical bone density were found with adult presenting higher values than adolescents in the three classes (p-value<0.05). Skeletal pattern, on the other hand, has a slight clinical significance on cortical bone density variations.

Biography

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