Bone density and its effect in placement of miniscrew in pediatric patient receiving orthodontic treatment

Ali Aljuhani
Saudi Board of Orthodontics and Dentofacial Orthopedics, Saudi Arabia

Bone density, which is the mass of bone per unit volume, plays an important role in primary stability of miniscrews. It has a direct influence on the success rate of miniscrews. According to Lekholm and Zarb in 1985, there are several types of bone density. There are many variables that affect the etiology of different types of bone density. Many ways are used to predict and to know the type of bone density, such as knowledge, tactile sensation, and cone beam CT scan. Each type of bone density has different protocol regarding the placement of miniscrew. Several factors affect bone density, for example: Location in the mouth and age of the patient. Some authors in orthodontics do not recommend placement of miniscrews for patients who are less than 12 years old because they claim that these patients have soft bone. Knowing bone density and the protocol of dealing with it, could help the clinician to do some procedures, which cannot be done in the past, based on scientific base.

Biography

Ali Aljuhani has completed his Bachelor’s degree in Dental Surgery from King Abdulaziz University. He has completed his Masters in Health Services and Hospital Management from King Abdulaziz University and also he got a Fellowship in Dental Implant from University of Nevada Las Vagas. He has completed his Externship program in Dental Implants at California Implant Institute. He is currently pursuing his second year of Residency in Saudi Board of Orthodontic and Dentofacial Orthopedic.

dentistksa@yahoo.com