Bölüm 9

ORTODONTİK MİNİ VİDALARIN KLİNİK KULLANIM ALANLARI

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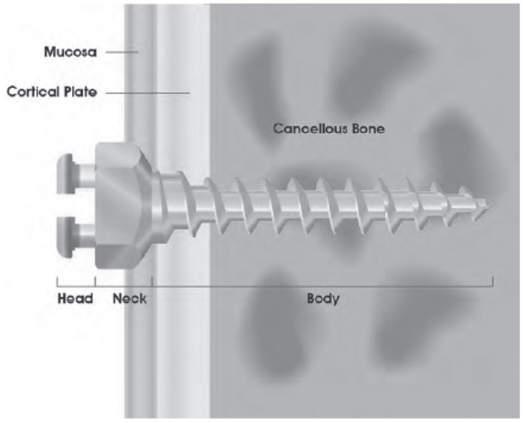
GİRİŞ

İmplantlar ve mini implantlar, osseointegrasyon gerçekleştikten sonra yüklemenin yapıldığı yapay destekler olarak tanımlanırken, vidalar ise osseointegrasyon koşulu olmadan kullanılabilen materyallere denir.[1] Mini vidalar genel olarak şekil 1'deki gibi baş, boyun ve gövde bileşenlerine sahiptir.[2]



Şekil 1. Mini vida bileşenleri ve kemik içindeki yerleşimi

Baş kısmı, ortodontik apareylere veya elastiklere bağlanan bileşendir. Boyun, mukozayı geçen kısım, gövde ise kemiğin içinde kalan ve konik bir ucun etrafında dişlileri olan bölümdür.[2]

Alternatif olarak paslanmaz çelik önerilmiş olmasına rağmen genellikle mini vidalar için kullanılan malzeme, tıbbi sınıf 4 (saf titanyumun en güçlü hali) veya sınıf 5 (titanyum-6-alüminyum-4-vanadyum) titanyumdur.[3]

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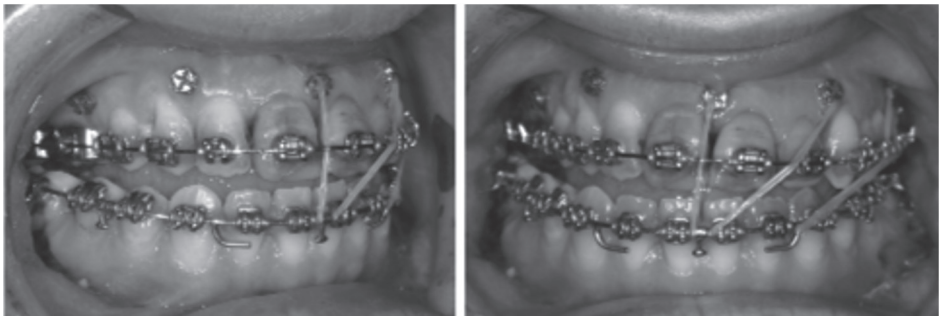
lingual ortodonti ile tedavi edilen durumlarda çok basit değildir, çünkü hastada labial yüzeye sabitlenmiş tedavi mekanikleri yoktur.[56] Lingual ortodontide mini vida kullanımı fiksasyon için en güvenilir yöntemlerden biridir.[57]

Ortognatik cerrahi planlanan hastalarda mini vida kullanımı ile daha geniş bir tedavi seçeneği sunulmaktadır. Örneğin ortognatik cerrahi planlanan bir hastanın ağız içi durumu şekil 22'de görüldüğü gibi yeterli diş ve periodontal doku desteği sağlayamayabilir. Bu durumda intermaksiller fiksasyon ve elastiklerle post operatif traksiyon zorlaşır. Bu durum mini vida kullanılması ile çözümlenebilir. Mini vidalar sabit mekaniklerdeki hookların görevini görür.



Şekil 22. Zayıflamış periodontal doku desteği nedeniyle ortognatik cerrahide mini vidaların intermaksiller fiksasyon amaçlı kullanımı

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