

## Bölüm 12

# NİKEL TİTANYUM DÖNER ALET SİSTEMLERİNİN SÜT DİŞİ KÖK KANAL TEDAVİSİNDEKİ YERİ

Gül KESKİN<sup>1</sup>

### GİRİŞ

Çocuk diş hekimliğinde endodontik tedavinin temel amacı süt dişinin fizyolojik eksfoliasyon zamanına kadar ya da süt dişi retansiyonu gerektiğinde daha uzun vadede, belirti ve semptom vermeden devamlılığını sağlamaktır.<sup>(1)</sup> Süt dişlerinde kanal tedavisi, özellikle tedavinin en önemli basamaklarından biri olarak kabul edilen kanal preparasyonu, zorlu ve zaman alıcı olabilmektedir. Biyomekanik temizlik, restorasyon tipi, vizite sayısı ve kök kanal dolgu malzemesi gibi çeşitli faktörler pulpektominin klinik başarısına katkıda bulunur. Kök kanalının kemomekanik hazırlanması, hem mekanik enstrümantasyonu hem de kanal irrigasyonunu içerir ve esas olarak mikroorganizmaların kök kanal sisteminden uzaklaştırılmasına yöneliktir. Kanal preparasyonu, süt dişi kök kanal tedavisinin en önemli aşamalarından biridir ve esas olarak kanalın debridmanına yöneliktir.<sup>(2)</sup>

Süt dişleri için el eğeleri kullanılarak yapılan geleneksel enstrümantasyon tekniği, kök kanal tedavisinde “altın standart” olmaya devam etmektedir, ancak bu prosedür çok zaman alıcıdır ve hem klinisyenleri hem de hastaları olumsuz etkiler.<sup>(3)</sup> Ayrıca kanal hazırlığı sırasında çıkıntı ve perforasyon gibi iyatrojenik hataların oluşma riski de daha fazladır. Nikel titanyum (NiTi) aletlerin geliştirilmesi, geleneksel tasarım ve konikliği değiştirme olasılığı, rotatif endodontinin ortaya çıkmasına yol açmıştır. Çalışmalar, NiTi döner sistemlerinin el aletlerinden daha hızlı olduğunu, kavisli kök kanallarının hazırlanması sırasındaki sorunları ortadan kaldırdığını ve diş yapısının daha iyi korunmasını sağladığını doğrulamıştır.<sup>(4,5)</sup> NiTi döner eğelerin süt dişlerinin kök kanallarında kullanımı ilk olarak 2000 yılında Barr ve arkadaşları<sup>(6)</sup> tarafından bildirilmiştir. O zamandan beri pulpektomi için döner enstrümantasyonun kullanımı pediatrik diş hekimliğinde yeni bir uygulama haline gelmiştir.

<sup>1</sup> Dr. Öğr. Üyesi, Gaziantep Üniveristesi, Diş Hekimliği Fakültesi Pedodonti AD, gulbeyret@hotmail.com

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