

BÖLÜM 9

CAD/CAM TAM PROTEZLER

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GİRİŞ

Dişsizlik, sanayileşmiş ülkelerde artan yaşlı nüfus ve gelişmekte olan ülkelerde yetersiz ağız bakımı nedeniyle ciddi bir halk sağlığı sorunu olmaya devam etmektedir (1,2). Dişsizlik tedavisi için uygulanan güncel ve farklı dental tedavi seçenekleri olduğu bildirilse de tam protezler; anatomik, fizyolojik veya finansal kısıtlamalar nedeniyle sıklıkla tercih edilen bir tedavi seçeneğidir (3).

Hareketli protezlerin yumuşak dokular üzerine yerleşen ve yapay dişleri içermeyen bölümleri protez kaidesi olarak tanımlanmaktadır (4). Protez kaidelerinin yapımında genellikle polimerler kullanılmaktadır. Protez kaidesi olarak kullanılacak polimerler ulaşılabilirlik, boyutsal kararlılık, kullanım özellikleri, estetik, biyouyumluluk, kolay tamir edilebilirlik gibi yeterli fiziksel ve mekanik özelliklere sahip olmalıdır (5-7).

Günümüzde akrilik rezinler (Polimetil metakrilat-PMMA); biyouyumluluğu, fiziksel ve mekanik özelliklerinin kabul edilebilir olması, ekonomik ve estetik olarak tatmin edici olması gibi özelliklerinden dolayı hareketli protezlerde en çok tercih edilen kaide materyali olmuştur (8). Konvansiyonel ısıyla polimerizasyon yöntemi ile protez üretimi pahalı ekipman gerektirmemesi, üretim prosedürlerinin göreceli kolaylığı, kullanılan materyalin diğerlerine göre daha ulaşılabilir ve ekonomik olması gibi nedenlerden dolayı günümüzde hala yaygın bir şekilde kullanılmaya devam etmektedir. Fakat akrilik rezin esaslı protez kaidelerinin dayanıklılığı toz-likit oranı, polimerizasyon şekli (hızlı kaynatma ya da yavaş kaynatma), teknisyenin bilgi ve yeteneği, materyalin saklanma koşulları gibi birçok faktörden etkilenmektedir. Darbe, eğilme ve yorulma streslerine karşı dayanıklılığı azalan protezlerin bu stresler karşısında kırılabilmektedir (9,10). Tüm bu olum-

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