1. BÖLÜM

VİDEOSKOPİK CERRAHİDE ALETLER VE GÖRÜNTÜLEME SİSTEMLERİ

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Giriş

Minimal invaziv cerrahinin kaydettiği önemli gelişmeler sayesinde daha küçük laparoskopik aletlerle daha yüksek kalitede görüntü sağlanarak çok daha hassas diseksiyonların yapılabilmesi mümkün hale gelmiştir[1-3]. Laparoskopi; geniş ve iyileşmesi daha uzun süre gerektiren insizyonlar yerine çok daha küçük insizyonlar ile operayonların yapılabilmesini sağlar. Daha küçük skar dokusu, daha hızlı iyileşme, karın içi yapışıklık oluşumunda azalma, daha az kanama ve daha hızlı cerrahi sağlar[4-9].

Laparoskopik ve endoskopik prosedürler günümüz cerrahi pratiğinde yaygın olarak kullanılmaktadır. Cerrahi disiplin içerisnde bu teknolojileri anlamak ve çalışma stratejileri hakkında bilgi sahibi olmak bu prosedürleri uygulayan cerrahi ekip açısından önem arzetmektedir[10-15]. Laparoskopik işlem sırasında oluşabilecek bir arıza ya da teknik aksaklığı gidermek genelikle biyomedikal mühendisler veya teknisyenleri tarafından gerçekleşmektedir ancak bu konuda cerrahi ekibin de donanımlı olması küçük aksaklıkların lokal olarak daha hızlı halledilebilmesi avantajını doğuracaktır[14-15].

Tarihçe

İlk endoskopik girişimler 1805'de Frankfurt'ta Bozzini tarafından geliştirilen yansıtıcı ayna , çift lümenli kanül ve mumdan oluşan "Lichtleiter" adı verilen bir

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