33. BÖLÜM

ROBOTİK KOLOREKTAL CERRAHİ

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Robotik sistemin tarihçesi

Robot terimi ilk olarak Karel Capek isimli bir oyun yazarı tarafından 1921 tarihinde kullanılmıştır. Zorlu doğum anlamına gelen bu terim Çek dilindeki "robota" sözcüğünden türetilmiştir (1). O zamandan beri robotlar küçük işleri halleden basit makinelerden, günümüzdeki çok zor işleri yapabilen karışık makinelere doğru evrilmiştir. Tıp alanında robot kullanımı ise ilk olarak 1990'ların başlarında NASA (Amerikan Uzay ve Havacılık Dairesi)'da uzaktan ameliyat yapabilme cerrahisi adı altındaki (Teleprescence Surgery) çalışmalar ile başlamıştır. Cerrahide ilk kabul gören robotik sistem, Computer Motion firması tarafından üretilen ve ses kontrol teknolojisi ile çalışan AESOP®'dur. 1998 yılında aynı firma tarafınca kullanıma sürülen Zeus robotik sistemi ilk robotik minimal invaziv cerrahi sistemi olup birbirinden ayrı 3 kol ve bir kontrol ünitesinden oluşmaktaydı. Intuitive Sugical firması da bu alanda yaptığı çalışmalar ile "da Vinci" sistemini oluşturmuştur. Derinlik algısının üst düzeyde sunulmasıyla 3 boyutlu görünüm sağlayabilen bu sistem 2000 yılında abdominal cerrahide, 2002 tarihinde ise karviovasküler sistem kapak cerrahisinde Amerikan Gıda ve İlaç Dairesi tarafından onaylanmıştır. Computer Motion ve Intuitive Surgical firmalarının Haziran

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