

BÖLÜM 25

Kansere Yol Açan Bakteriyel Ajanlar

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GİRİŞ

Kanser her organı etkileyebilen sınırlayıcı, zorlayıcı ve korkutucu bir hastalıktır (1). Önemli bir mortalite nedenidir. Kanserın önlenabilir nedenlerini ortaya çıkarmak için araştırmalar yapılmaktadır (2). Kanser hücre işleyişini, büyümesini, kontrolünü ve hayatta kalmasını bozan bir dizi genetik ve epigenetik değişiklikten kaynaklanır. Bu değişiklikleri çok sayıda intrinsik ve ekstrinsik faktörler etkilemektedir. Genetik mutasyonlar, DNA replikasyon hataları, immunolojik ve inflamatuvar yanıt intinsik faktörleri oluştururken; diyet, sigara kullanımı, radyasyon ve bulaşıcı organizmalar başlıca ekstrinsik faktörlerdir (3). Tüm kanserlerin yaklaşık %20'sinde spesifik viral veya mikrobiyal enfeksiyonlarla güçlü bir bağlantı vardır. Önlenabilir nedenler olması nedeniyle bu mikroorganizmaların kanser ile ilişkisini anlamak oldukça önemli hale gelmiştir. Örnek olarak insan papilloma virüsü (HPV)'nin farklı alt tiplerinin serviks ve baş boyun kanserine Epstein-Barr virüsü (EBV) lenfoma, hepatit B ve C virüsleri hepatoselüler karsinoma ve insan T lenfotropik virüsleri (HTLV) lösemi ve lenfomaya ve bakterilerden en net bilinen *Helicobacter pylori*nin mide kanserine neden olmasıdır (4-6).

Vücutta insan sağlığını ve hastalık fizyolojisini etkileyebilen karmaşık ekolojik yaşam alanları oluşturan birçok mikroorganizma bulunmaktadır. Bunların tamamı insan mikrobiyomu olarak özetlenebilir (7,8). İnsan mikrobiyomu cilt, oral kavite ve tükürük, solunum sistemi, ürogenital sistem ve gastrointestinal sistem gibi vücudun farklı bölgelerinde bulunan mikroorganizmaların karmaşık bir

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