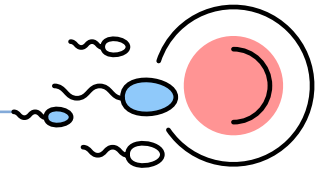
BÖLÜM 5



ERKEK ÜREME SİSTEMİ EMBRİYOLOJİSİ

Tuğba BAL TAŞTAN[1]

GİRİŞ

GENİTAL SİSTEM GELİŞİMİ

Genital sistemin gelişimi, bir bireyin tüm cinsel farklılaşmasının bir aşamasıdır. Cinsiyetin belirlenmesi, döllenme sonucu, oositte mevcut olan X kromozomuna bir Y kromozomu veya bir X kromozomunun eklenmesi ile başlar. Bu aşama, cinsiyetin genetik olarak belirlenmesini temsil eder. Embriyonun genetik cinsiyeti döllenme sırasında kesin olmasına rağmen, embriyonun bütün fenotipik cinsiyeti ve gonadlar gelişimin yedinci haftasına kadar benzerdir ve **farklılaşmamış gonadlar** olarak tanımlanırlar. Mezodermal epitel, Embriyonik bağ dokusu ve primordiyal germ hücreleri testis ve overlerin (gonadlar) kaynağını oluşturmaktadırlar. 7. Haftadan önce, embriyo cinsiyetinin temel morfolojik göstergesi, dişide bulunan X kromozomunun inaktivasyonu sonucu oluşan cinsiyet kromatininin **(Barr cismi)** varlığı veya yokluğudur. Cinsel gelişimin morfolojik olarak farklılaşmamış bu aşamasında, gametler vitellüs kesesinden gonadal primordiaya göç eder.

Cinsiyetin fenotipik farklılaşmasının gonadlarla başladığı ve genital kanal sistemleri üzerindeki gonadal etkilerle ilerlediği kabul edilir. Dış genital organların

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- Bir birey sadece X kromozomu taşıyorsa bu durumda Turner' sendromu gelişir. Bazı bireyler çizgi gonad oluşumları ile dişi fenotipine sahip olurlar. Gerçek hermafroditizm veya psödohermafroditizm durumlarında çeşitli sebepler etkilidir. Testiküler feminizasyonda genetik olarak testosteron reseptörlerinin eksikliği mevcuttur. Bu durumda bireylerde dişi fenotipi izlenir. Genital kanalların majör anormallikleri ise çok nadir görülür.

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