

# Bölüm 50

## ENDOMETRİOZİS ARAŞTIRMALARI İÇİN DENEYSEL HAYVAN MODELLERİ

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ÜNİTE 5

Birçok hastalıkta olduğu gibi endometrioziste de yapılacak bilimsel çalışmaların çoğunun, insanlarda uygulanacak yöntem veya denenecek ilaç ve türevlerinin olası zararlı etkileri nedeniyle, hayvan çalışmalarıyla test edilmesi gerekmektedir. Ancak insandaki her hastalık deneysel olarak başka bir hayvan türünde modellenememektedir. Bu sebeple deneysel model oluşturmak için seçilecek hayvanların uygun türler olup olmadığı, siklus düzenleri, menstrüel faz değişiklikleri çok iyi bilinmeli ve uygun hayvan, uygun deneysel çalışma için seçilmelidir. Siklus senkronizasyonu yapılmadan bir hayvan türü rastgele alınıp deneysel endometriozis oluşturulursa elde edilen verilerin güvenilir olmayacağı bilinmelidir. Bir hayvana aynı deneysel çalışmada birden fazla farklı cerrahi yöntem uygulayarak yapılan çalışmalar adrenal stres aksının aktivasyonu nedeniyle özgün sonuçlar vermeyecektir. Deneysel çalışma sonucunda doku toplanması esnasında hayvanın bir çok organını alıp farklı çalışmalar yapmak doğru değildir. Endometriozis modellerinde oluşan implantaların %25’lik kısmı uterin ototransplantasyona sekonder değil kullanılan sütüre karşı gösterilen yabancı cisim reaksiyonu nedeniyle. Dolayısı ile odaklar mutlaka histolojik olarak konfirme edilmelidir. Yine endometriozis modellerinde oluşan odakların %30’a yakın kısmı 3 aylık peryot içerisinde spontan olarak regrese olacaktır. Bu spontan regresyon kullanılan deneysel ilaca veya yönteme bağlı olarak değerlendirilmelidir. Deneysel modellerde armozotaz aktivasyonu net olarak gösterilemediği için aromataz enzimi ve

inhibitörleri ile ilgili deneysel çalışmalar çok dikkatli yorumlanmalıdır. Bölüm yazarının konuyla ilgili çalışmaları ve tecrübesi dikkate alınarak genç akademisyenlerin mutlaka okumaları gereken bir bölümdür. Yazara özgün eserinden ve kapsamlı bilgi paylaşımından dolayı teşekkür ederiz. **Editorial**

### Giriş

Endometriozis, yaygın bir jinekolojik hastalık olup, endometriyal dokunun uterusun dışında bulunması durumudur. Halen bu hastalık için kullanılan tedavi metodları ağrıyı hafifletir, ancak hastalığı ortadan kaldırmaz; ayrıca söz konusu tedaviler pek çok yan etkilere yol açar. Endometriozis etyolojisi, etyopatogenezi ve fizyopatolojisi hakkında günümüzde yeterli bilgi yoktur. Endometriozis yalnızca insalarda ve bazı primatlarda görüldüğünden, endometriozisin araştırmalar için deneysel olarak oluşturulabildiği hayvan modelleri büyük önem taşımaktadırlar. Bazı rodentlerin (kemirgenlerin) ve primatların periton boşluğuna kendi uteruslarından cerrahi olarak elde edilen endometriyal doku parçacıklarının ototransplantasyonu, immün sistemleri olmayan (SCID mice, “severe immunodeficient – immünyetmezlikli fareler” gibi) bazı rodentlere insan endometriyal dokusunun intraperitoneal veya subkutan heterotransplantasyonu ve civeiv koriyoallantoik membranına endometrium implantasyonu ile oluşturulan deneysel modeller endometriozis araştırmalarında kullanılabilir.

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