

36. BÖLÜM

BÖBREK VASKÜLER HASTALIKLARI VE BÖBREK YETMEZLİKLERİ HAYVAN MODELLERİ

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Bu bölümde bir halk sağlığı problemi haline gelmiş olan böbrek yetmezliğini ilgilendiren renal arter ve veni de içeren hayvan modellerinden bahsedilecektir.

1- AKUT BÖBREK HASARI MODELLERİ

Akut böbrek yetmezliği (ABY), akut tübüler nekrozda denilen bir klinik duruma bağlı oluşan hızlı böbrek fonksiyon kaybı ile karakterizedir. ABY hastanede yatan hastaların % 10-20'sini etkiler ve bu hastaların da % 10'u renal replasman tedavisi gerektirir (1). Kritik hastalar arasında, akut böbrek hasarı (ABH) insidansı %45-50 gibi yüksek bir oranda bildirilmiştir (2). ABH, hastanede kalış süresini uzatarak maliyetlerde artışa neden olmaktadır. Kronik böbrek hastalığı (KBH) ve son dönem böbrek yetmezliğide dâhil olmak üzere uzun yıllar tedavi gerektiren önemli bir mortalite ve morbidite nedenidir (3). Klinik hastalarda ABH'nin başlangıcı ve ilerlemesinde iskemi, toksinler ve sepsis rol oynayabilir. Hospitalizasyonun giderek arttığı ve buna bağlı ABH gelişen hasta sayısının da artmaya devam ettiği göz önünde bulundurulduğunda bu hasarın sebeplerinin anlaşılması yukarıda saydığımız mortalite ve morbiditenin azalmasına hizmet edecektir. Bir çok alanda olduğu gibi bu konuyu anlamak için de hayvan modelleri ile çalışmalar yapılmaktadır. Genellikle bu üç etken iç içedir ve buna bağlı hayvan deney modellerini birebir klinikle özdeşleştirmek zordur. Klinik ABH'nin ana nedenlerine dayanarak, iskemi-reperfüzyon, toksinler ve sepsis olmak üzere üç tip hayvan modeli geliştirilmiştir.

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