Bölüm 12

DEMİR, PERİTON VE ENDOMETRİOZİS

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Endometriozis oluşumunda suçlanan iki ana öge mevcut olup birisi tubalar aracılığı ile batın boşluğuna ulaşan menstrual kan diğeri de kanın döküldüğü peritondur. Periton sanıldığının aksine basit bir zar olmaktan ziyade birçok özellikleri olan bir organ olarak nitelendirilebilir. Üzerine dökülen menstrüel kanı kendi savunma hücreleriyle ve özel sıvı akım paterni sayesinde (saat yönünde) temizler ve peritoneal çevreyi sağlıklı bir şekilde tutmaya çaba sarfeder. Peritonda demir ve metabolitleri menstrual kan aracılığıyla veya odakların kanaması sonucu ortay çıkar. Biriken demirin peritonun fagositik hücrelerinin kapasitesini aşması durumunda ROS oluşmaya başlar ki bunlar mezotel defektine yol açarlar. Endometrial hücrelerin peritona tutunması için defekt şart olmamakla beraber kolaylaştırıcı bir faktördür. Biriken demir NF-kB sistemini de aktive ederek inflamatuar bir çevre oluşturur. Demir şelatörleri ilerleyen aşamalarda endometriozis profilaksisinde kullanım alanı bulabilirler. **Editorial**

Giriş

Endometriozis reprodüktif dönemdeki kadınların %10'ununu etkileyen çok sık rastlanan bir benign jinekolojik hastalıktır (1). Endometrial dokuların uterin kavitenin dışında özellikle pelvik peritonda yer alması ile karakterize bir hastalıktır. Sık rastlanan jinekolojik hastalıklardan biri olmasına rağmen halen endometriozisin etyopathogenezi tam olarak ortaya konulamamıştır. Biriken kanıtlar endometrial hücrelerin retrograde menstürasyon olarak bilinen femnomen yolu ile fallop tüplerinden abdominal kaviteye dökülmektedir (2). Birçok araştırmacı endometriozisin altta yatan pathogenezinde genetik, hormonal, çevresel, immünolojik ve anatomik faktörlerin birlikte rol oynadığını göstermişlerdir (3). Bu arada, bugüne kadar yapılan çalışmalar peritoneal kavitede bulunan fazla demirin endometriozis pathogenezi ile ilişkili olabileceğini göstermişlerdir (4).

İnsanda Demir Metabolizması, İntrasellüler Demir Alımı

Tüm hücreler normal görevlerini ve fonksiyonlarını yerine getirebilmek için demire ihtiyaç duymaktadırlar. Demir, hemen hemen tüm yaşam organizmaları çok sayıda demir içeren enzim ve protein içerdiği için vazgeçilmez bir metal olup vücuttaki demirin 2/3'ü eritrositlerdeki hemoglobinin içine yerleşmiş olarak bulunmaktadır. Diğer kalan kısım ise kasta veya retiküloendoteliyal makrofajlarda depolanmaktadır (5) Demirin çok az bir kısmı plazmada transferrine bağlı olarak dolaşmakta veya hücresel değişken demir havuzlarında bulunmaktadır. Demir vücutta oksijen metabolizması ile ilgili olarak bir çok önemli görev üstlenmektedir. Ancak hücre ve doku içinde fazla demir birikimi toksik olabilmekle birlikte talasemi, hemakromato-

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