



BÖLÜM 1

Kalp Kapak Hastalıklarının Ekokardiyografik Değerlendirilmesinde Genel Prensipler

Kemal Emrehan PARSOVA¹

Nurşen KELEŞ²

GİRİŞ

Kalp kapak hastalıkları kardiyovasküler hastalıklar içinde ciddi bir yer kaplamaktadır ve günümüzde önemli morbidite ve mortalite nedenlerinden biri olmayı sürdürmektedir. Ekokardiyografik görüntüleme teknolojilerindeki ilerlemeler ve bunların kardiyovasküler tanı ve tedavi sürecine giderek daha fazla dahil edilmesi ekokardiyografik görüntülemenin kullanımında ciddi bir artışa yol açmıştır. Kapak hastalıklarının ilk tanısı ve sonraki takipleri sıklıkla ekokardiyografik görüntüleme yöntemlerine dayanır. Ekokardiyografik değerlendirme, kapak morfolojisi ve kapak hastalığının ciddiyeti ve prognozu hakkında önemli bilgiler verir. Transtorasik ekokardiyografi (TTE) yetersiz kalitede olduğunda veya tromboz, protez kapak disfonksiyonu, enfektif endokardit şüphesi olduğunda transözofageal ekokardiyografi (TEE) düşünülmelidir. Teknolojik ilerlemelerle birlikte kalp kapak hastalıklarında transkateter tedavi seçeneklerinin gelişmesi operasyon öncesi ve operasyon sırasında ekokardiyografi ile anatomik ve fonksiyonel görüntüleme ihtiyacını artırmıştır. Operasyon sırasında yapılan TEE, perkütan mitral

ve aort kapak müdahalelerine rehberlik etmek ve perkütan kapak implantasyonu veya onarımının sonuçlarını izlemek için kullanılabilir. Üç boyutlu (3D) ekokardiyografi, kateterizasyon laboratuvarında valvüloplastiden hemen sonra komissural yarıma ve yaprakçık yırtıklarını iki boyutlu (2D) ekokardiyografiden daha iyi belirleyebilir¹⁻⁶.

Mitral kapağın 3D TTE görüntülerini elde etmek için kullanılan ana pencereler parasternal uzun eksen ve apikal dört boşluk görüntüleridir. 2D TTE parasternal kısa eksen görüntü mitral kapağın sol ventrikül perspektifinden görüntülenmesini sağlar. Görüntüleme için 3D TEE kullanıldığında, 60 derece mitral kapak bikomissural ve 120 derece uzun eksen midözofagus görünümü tüm mitral kapak yapısını ve ilişkili bileşenlerini görselleştirmek için en iyisidir. Mitral kapağın transgastrik uzun aks görünümü multiplanar mod ile birlikte kullanıldığında subvalvüler ve kapak yapılarının ayrıntılı değerlendirilmesine olanak sağlar. 3D TEE daha yüksek uzaysal çözünürlüğü nedeniyle TTE ile karşılaştırıldığında çok daha iyi anatomik detay sağlar⁷.

¹ Uzm. Dr. Kemal Emrehan PARSOVA, Tokat Zile Devlet Hastanesi Kardiyoloji Bölümü emrehanparsova@gmail.com

² Doç. Dr. Nurşen KELEŞ, S.B. S.B.Ü. Dr. Siyami Ersek Göğüs Kalp ve Damar Cerrahisi Eğitim ve Araştırma Hastanesi, Kardiyoloji Bölümü dnursenkeles@yahoo.com.tr



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