

İnfektif Endokardit Tanısında BT-MR

Dr. Memduh Dursun



Few diseases present greater difficulties in the way of diagnosis than malignant endocarditis, difficulties which in many cases are practically insurmountable.

Sir William Osler, 1885

- Mortalite yüksek
- Hızlı ve kesin tanı
- Erken cerrahi tedavi
- Cerrahi tedavi planlaması

Kardiyak BT

- 64-640 dedektörlü
- Kapaklar ve paravalvüler yapılar
- Daha az metalik artefakt
- TEE'ye ek bilgiler verebilir

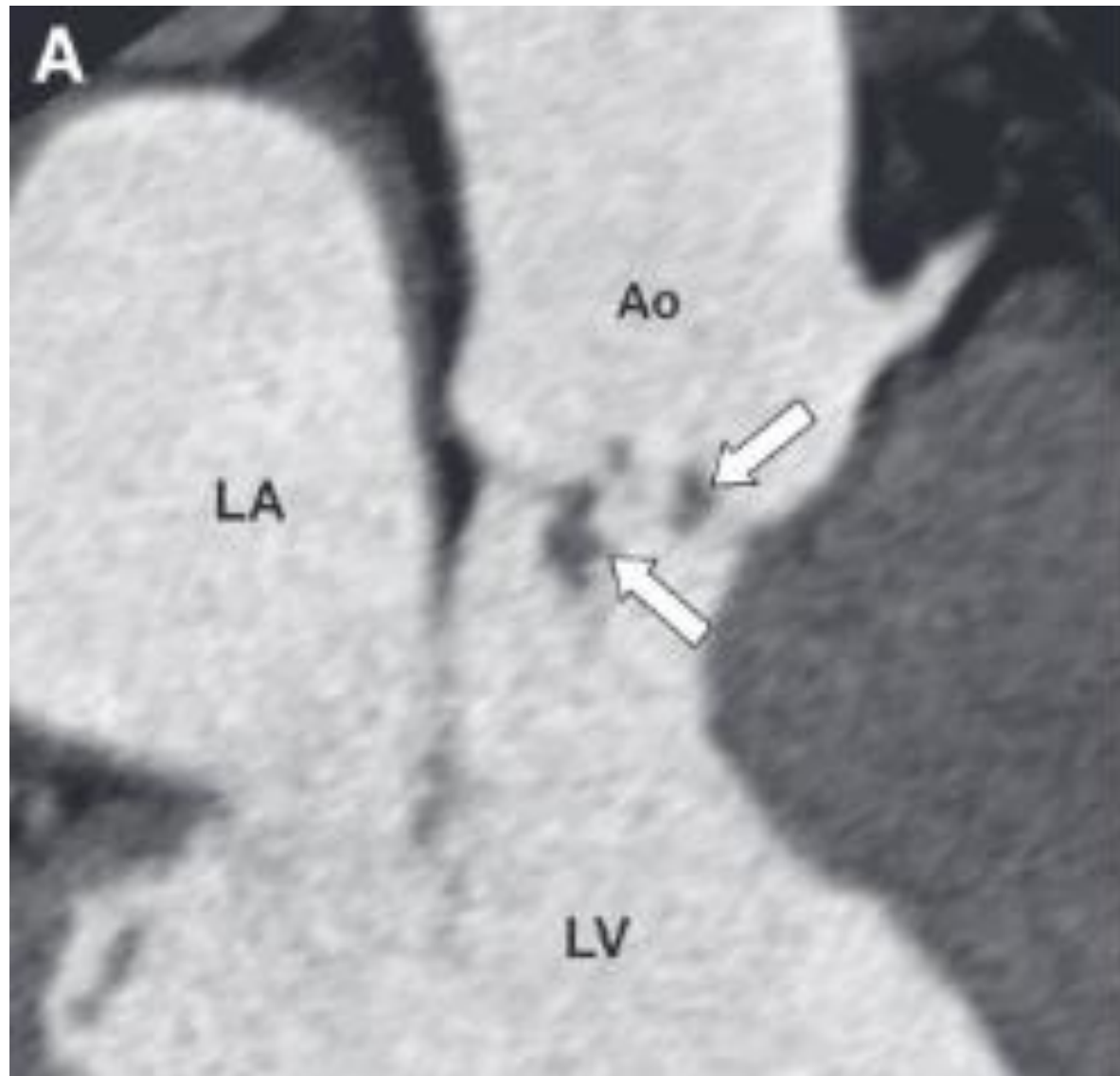
*Habets J, Tanis W, Reitsma JB, van den Brink RB, Mali WP, Chamuleau SA
Are novel non-invasive imaging techniques needed in patients with suspected
prosthetic heart valve endocarditis? A systematic review and meta-analysis.
Eur Radiol 2015;25:2125–33.*

Ne zaman Kardiyak BT?

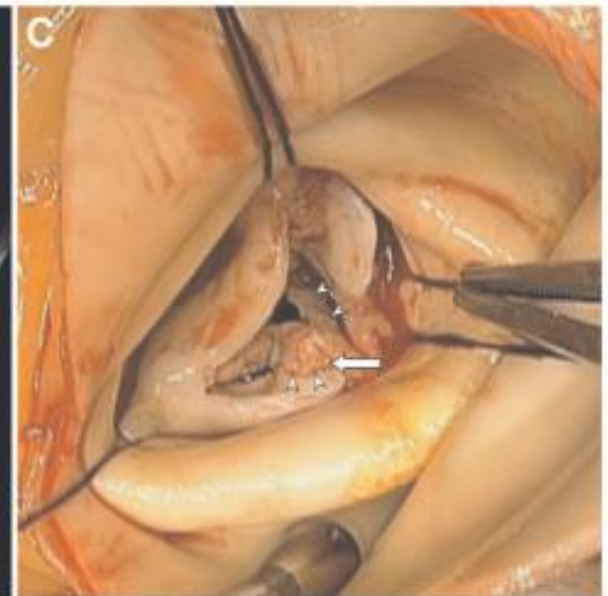
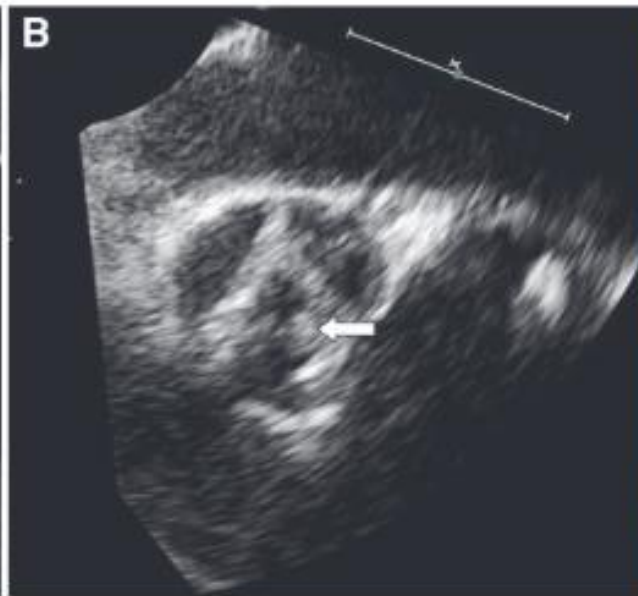
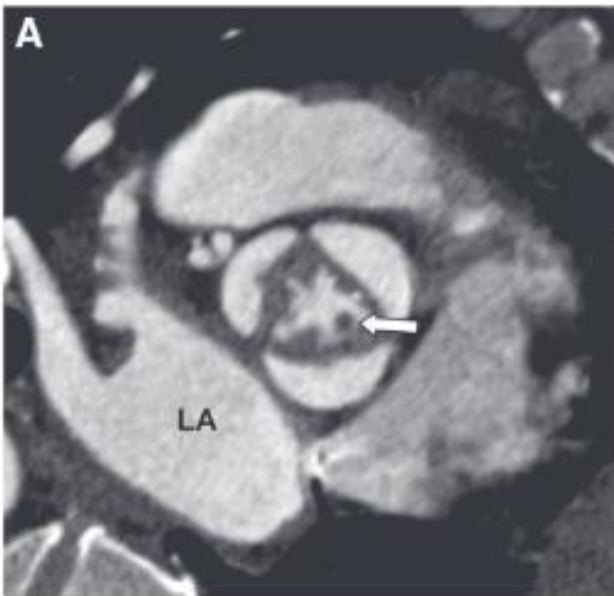
- Ekokardiyografinin yetersiz kaldığı durumlarda yardımcı
- TEE'ye eşit
- Paravalvüler anatomi-komplikasyonlar
- Prostetik kapaklarda daha az artefakt
- Koroner damarların görüntülenmesi

Kardiyak BT Bulguları

- Vejetasyon
 - İrregüler şekilli
 - Kapak veya paravalvüler yapılara yapışık
 - Endokarddan ayrı
 - İki farklı planda görülen

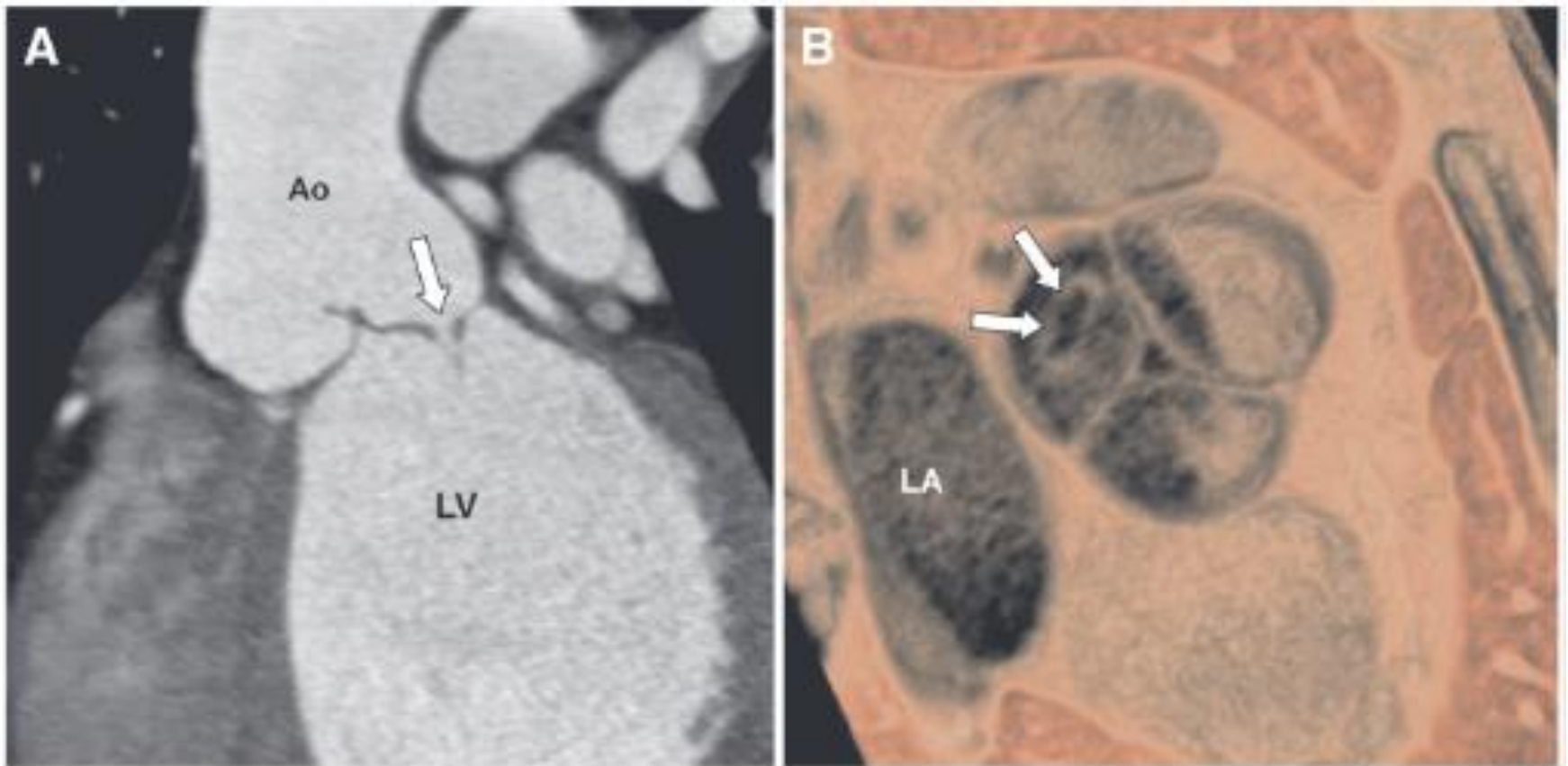


Koo ve ark. Demonstration of IE by cardiac CT end TEE: comparison with operative findings
European Heart Journal; 2017:0, 1-9



Koo ve ark. Demonstration of IE by cardiac CT end TEE: comparison with operative findings
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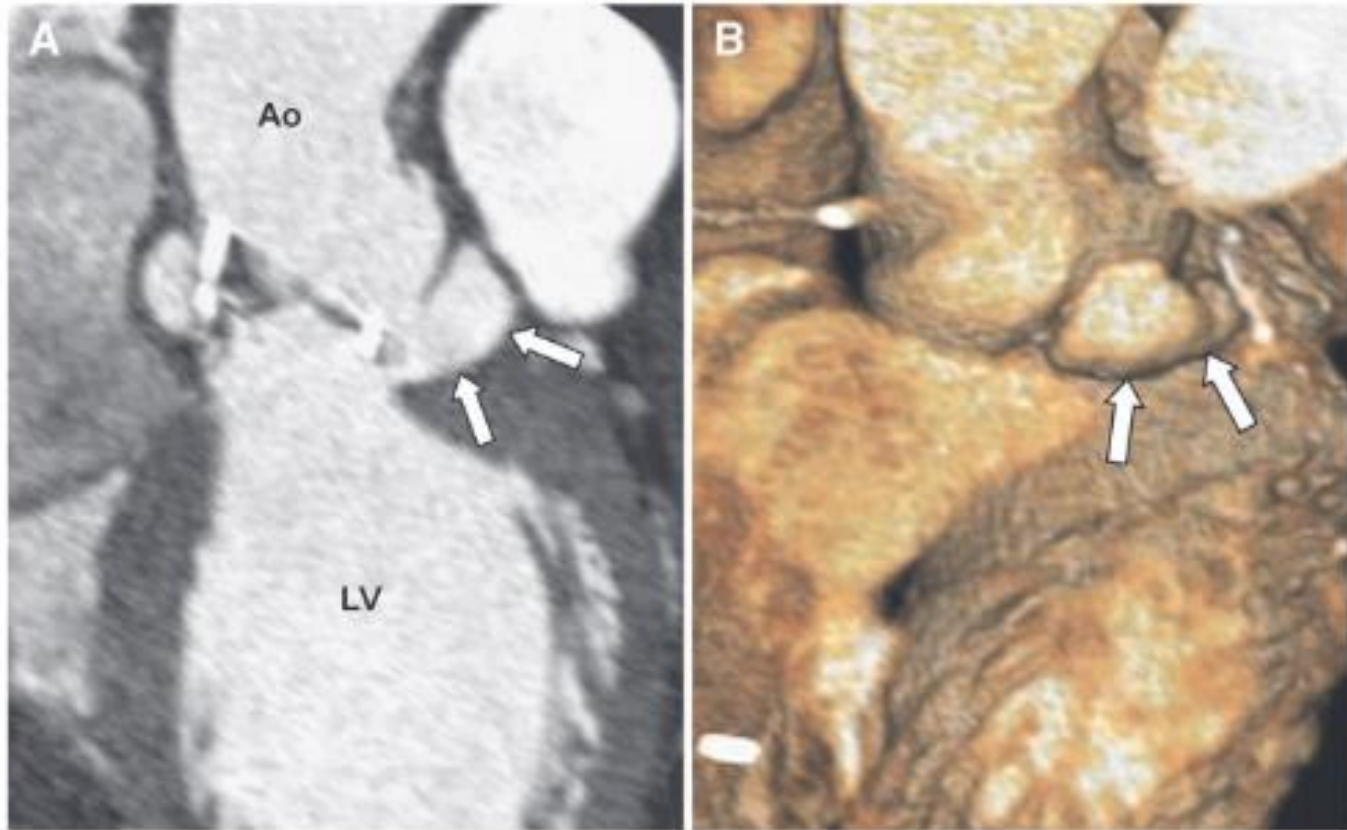
- Küspislerde perforasyon
 - Küspis bütünlüğünde bozulma
 - İki farklı planda görülme



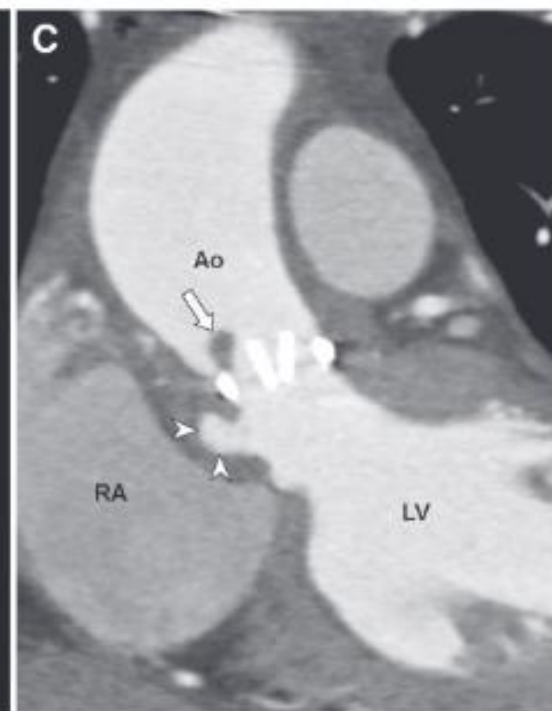
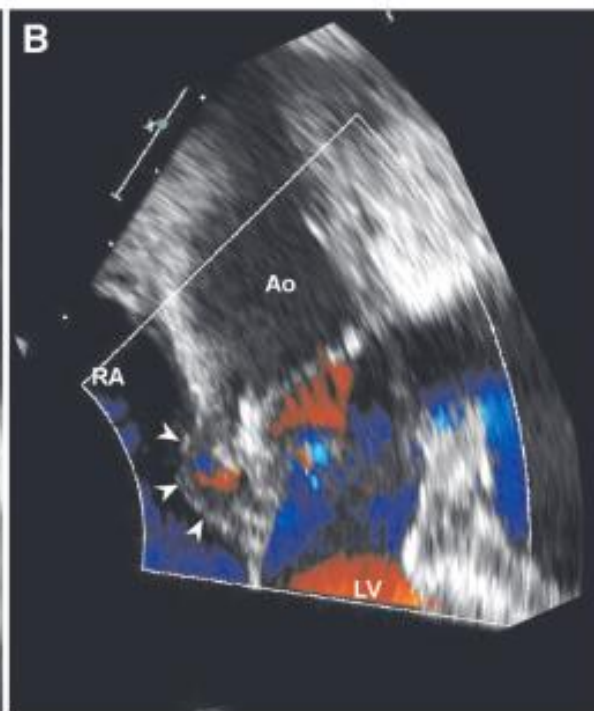
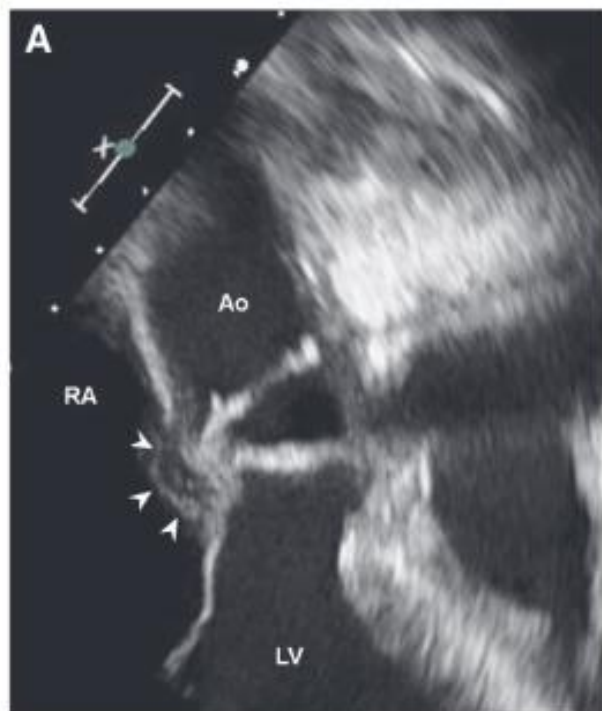
Koo ve ark. Demonstration of IE by cardiac CT end TEE: comparison with operative findings
European Heart Journal; 2017:0, 1-9

- Abse:
 - Perivalvüler sıvı lokülasyonu
 - Etraf dokuda inflamasyon:
kalınlaşma/ödem/kontrastlanma

- Pseudoanevrizma:
 - Kalp boşluklarıyla ilişkili
 - Paravalvüler alan etrafında



Koo ve ark. Demonstration of IE by cardiac CT end TEE: comparison with operative findings
European Heart Journal; 2017:0, 1-9



- Perivalvüler kaçak:
 - Dikiş yüzünün herhangi bir tarafında yırtık
 - İki kalp boşluğunu birleştiren hol

- Nativ kapak endokarditi:
 - Duyarlılık % 97
 - Özgüllük % 88
- Prostetik kapak endokarditi:
 - Duyarlılık % 93
 - Özgüllük % 83

Review 

Diagnostic value of imaging in infective endocarditis: a systematic review



Anna Gomes, Andor W J M Glaudemans, Daan J Touw, Joost P van Melle, Tineke P Willems, Alexander H Maass, Ehsan Natour, Niek H J Prakken, Ronald J H Borra, Peter Paul van Geel, Riemer H J A Slart, Sander van Assen, Bhanu Sinha

Sensitivity and specificity of the modified Duke criteria for native valve endocarditis are both suboptimal, at approximately 80%. Diagnostic accuracy for intracardiac prosthetic material-related infection is even lower. Non-invasive imaging modalities could potentially improve diagnosis of infective endocarditis; however, their diagnostic value is unclear. We did a systematic literature review to critically appraise the evidence for the diagnostic performance of these imaging modalities, according to PRISMA and GRADE criteria. We searched PubMed, Embase, and Cochrane databases.

Lancet Infect Dis 2017; 17: e1-14

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Department of Medical

MR ?

- Birkaç olgu bildirisi

Diagn Interv Radiol 2015; 21:28–33

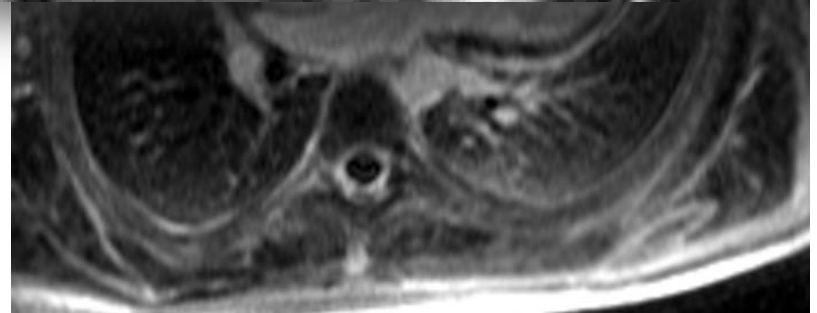
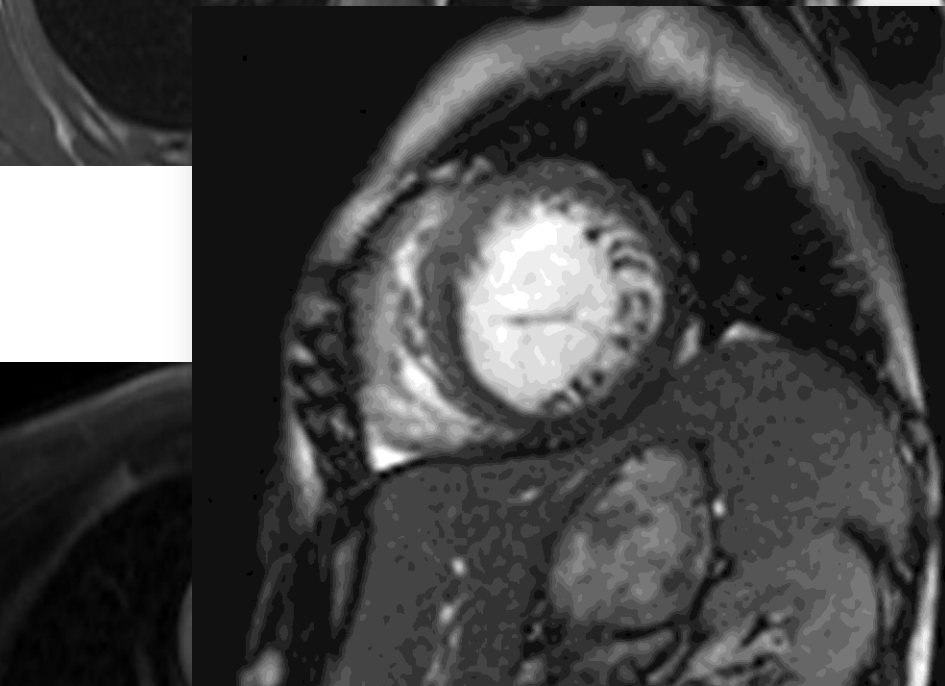
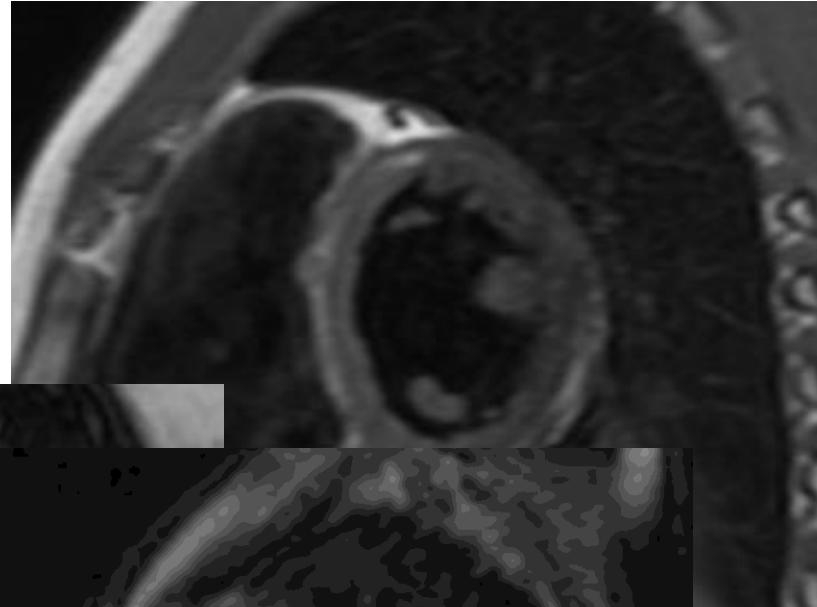
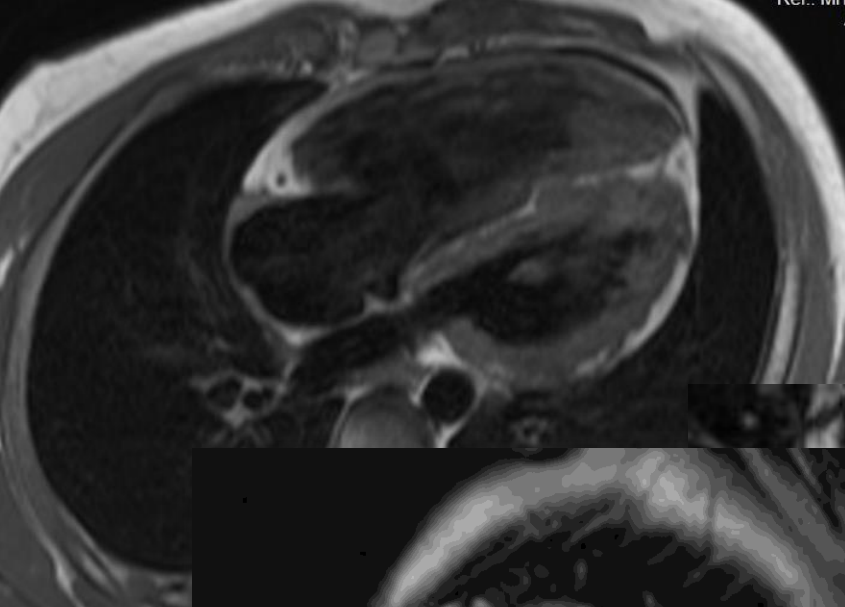
© Turkish Society of Radiology 2015

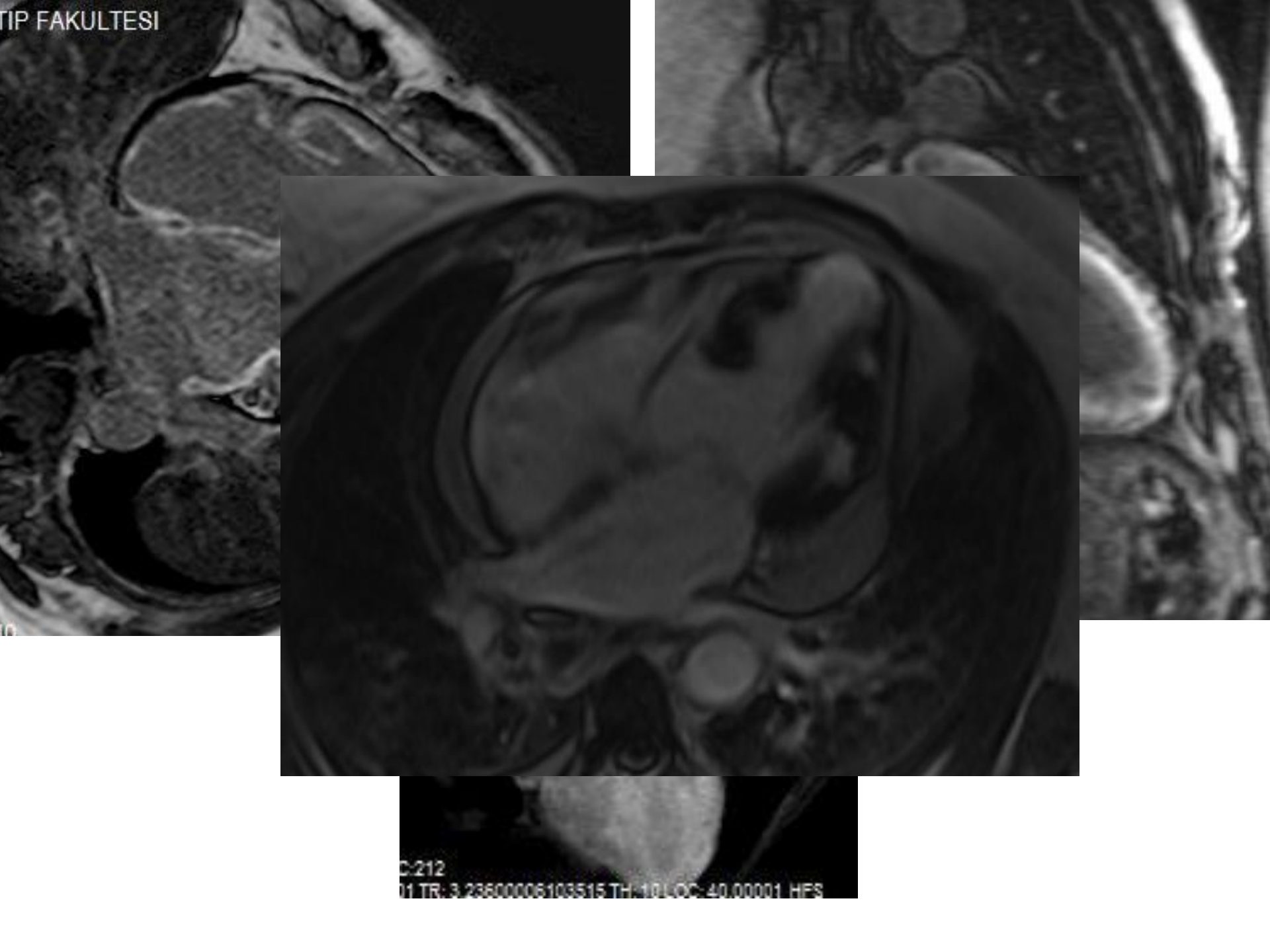
CARDIOVASCULAR IMAGING

ORIGINAL ARTICLE

The utility of cardiac MRI in diagnosis of infective endocarditis: preliminary results

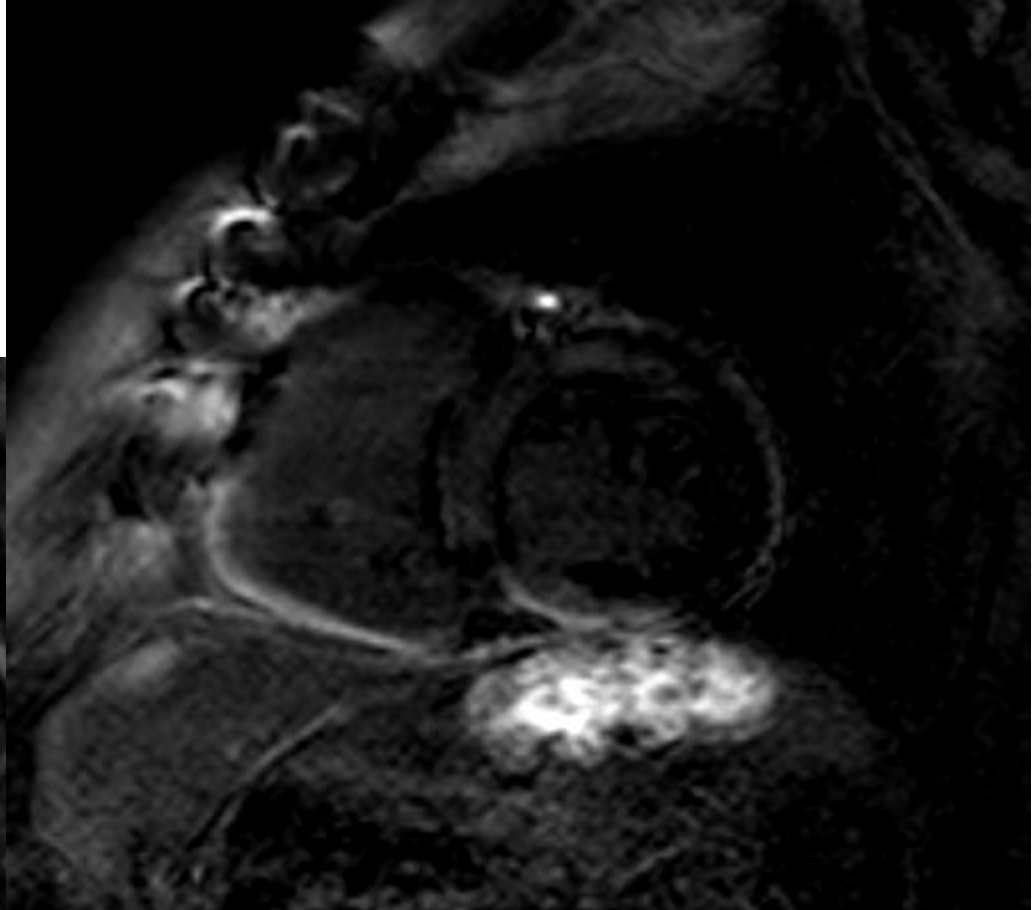
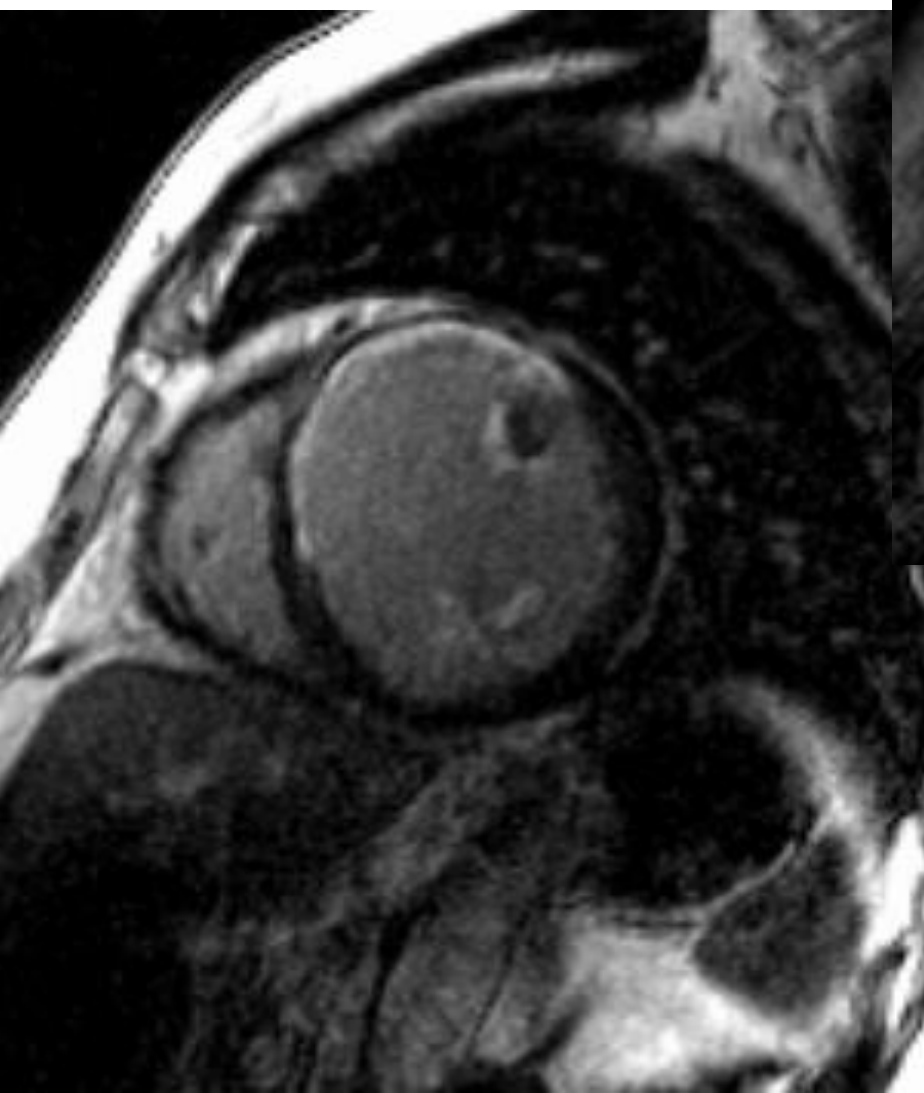
Memduh Dursun, Sabri Yılmaz, Erdem Yılmaz, Ravza Yılmaz, İmran Onur, Hüseyin Oflaz, Aygün Dindar





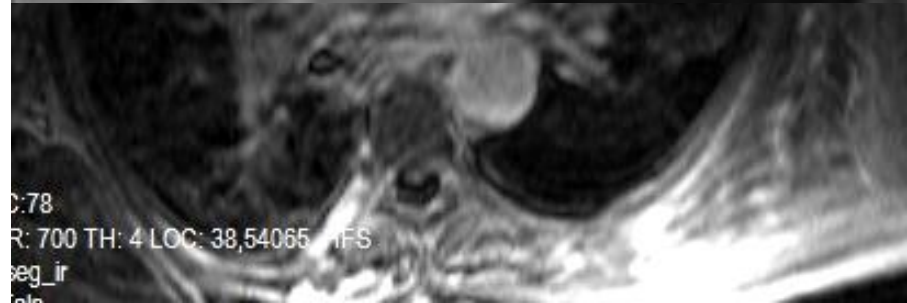
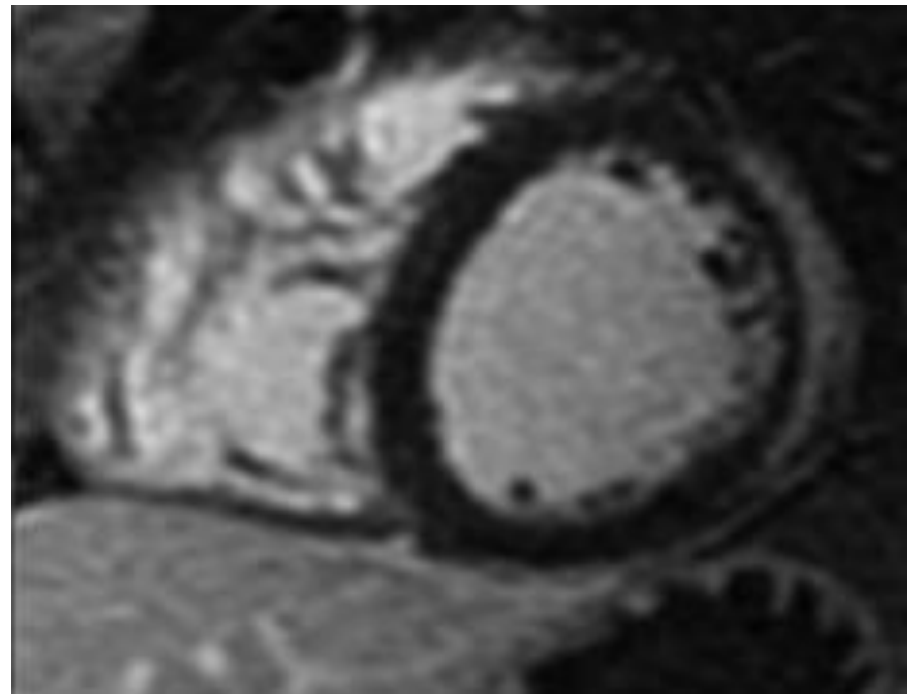
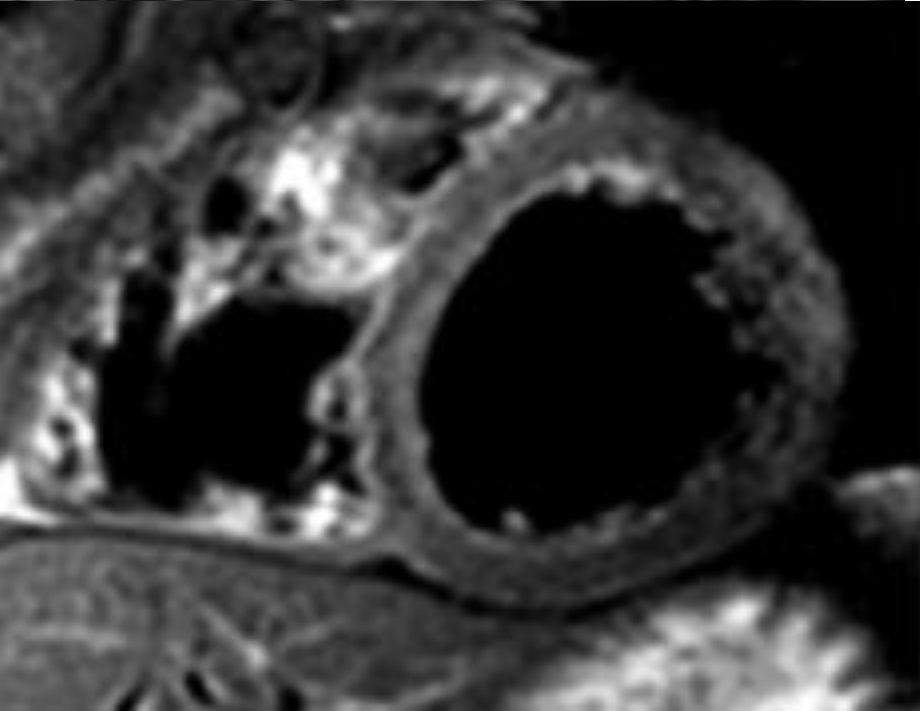
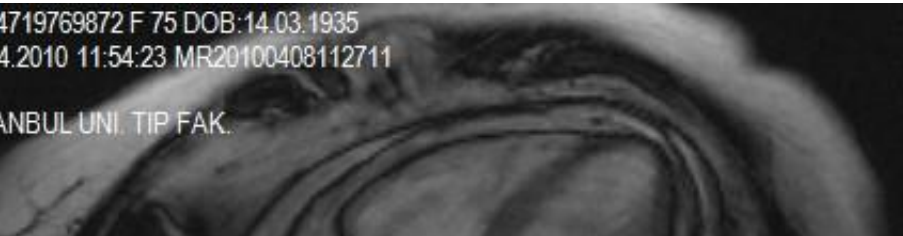
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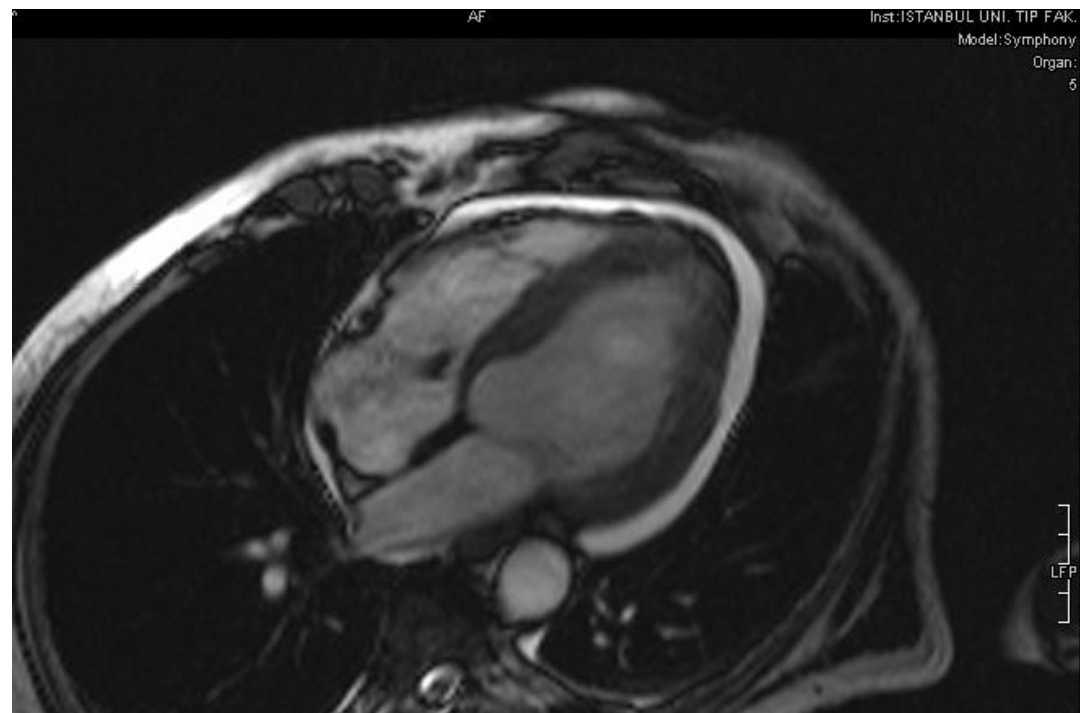
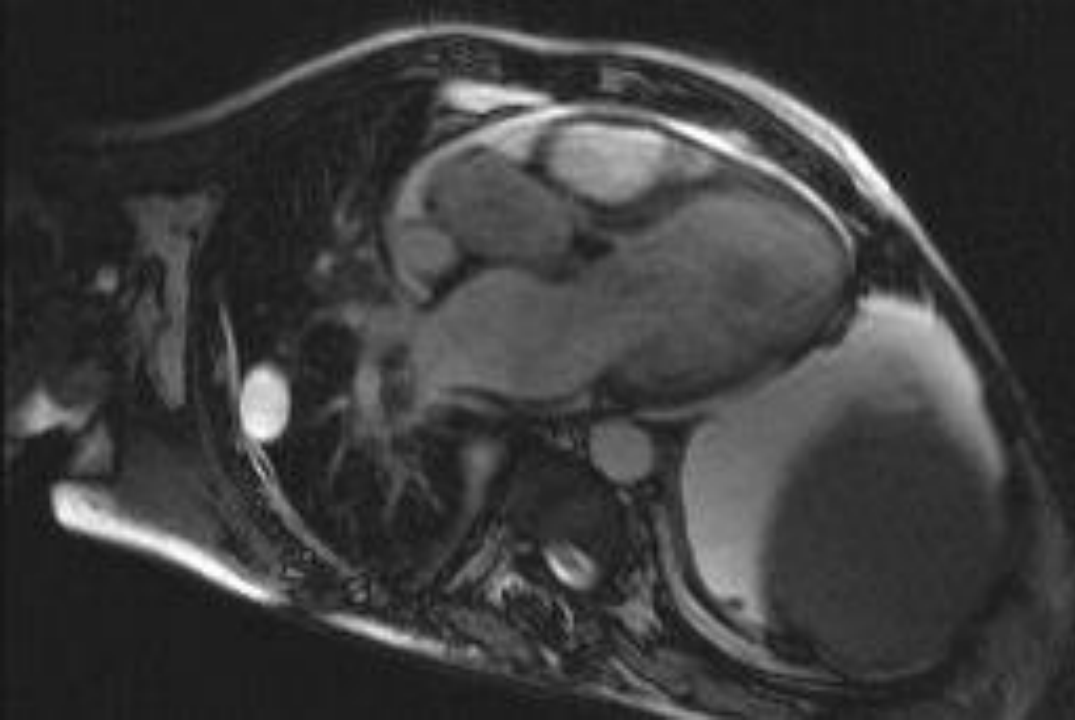
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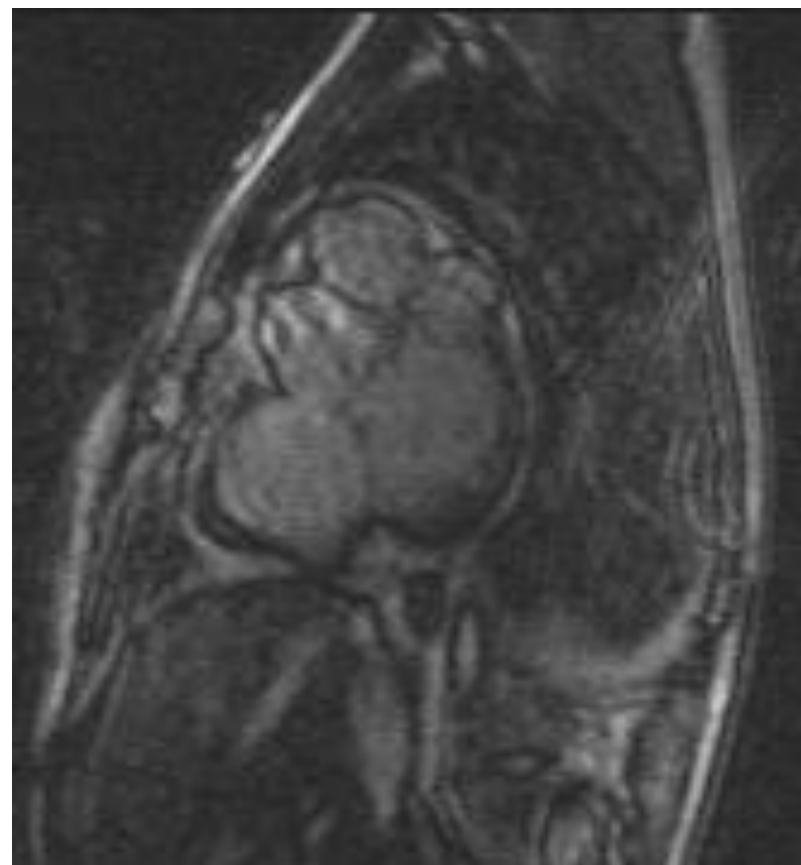
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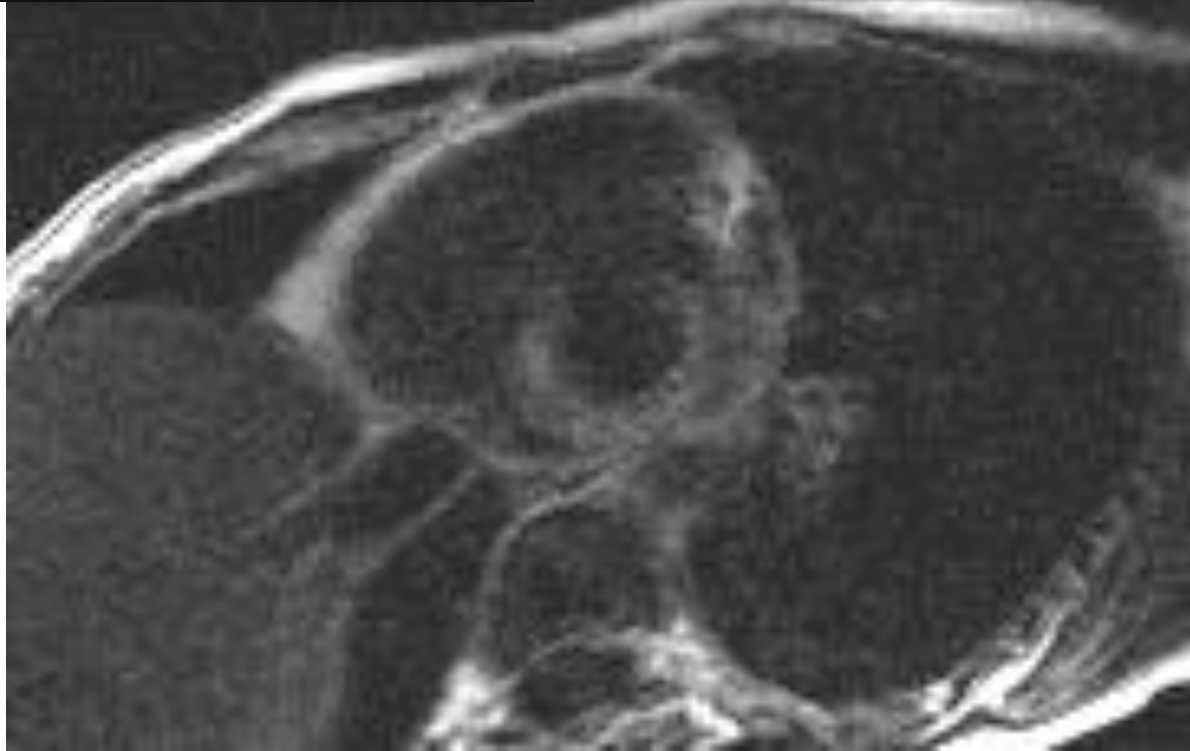


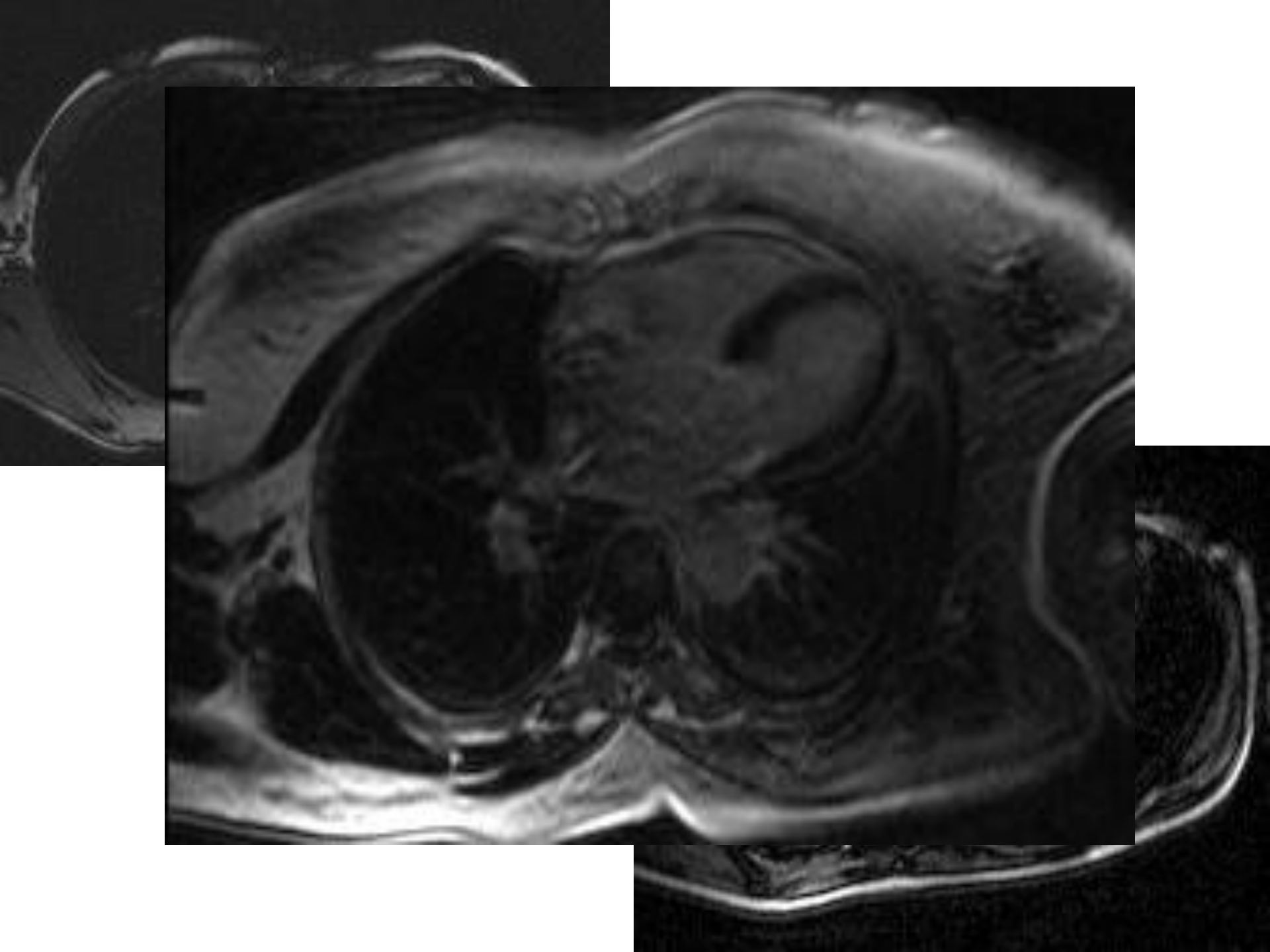
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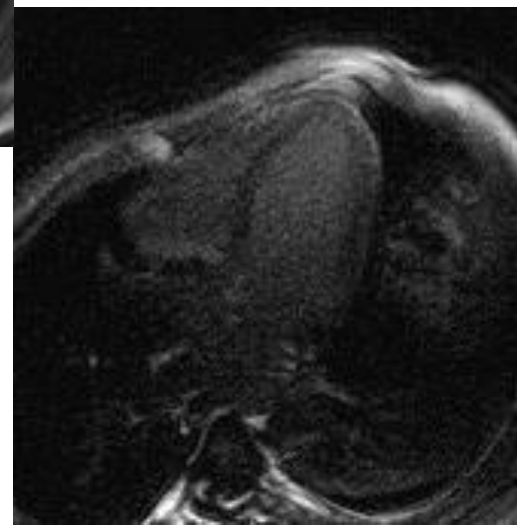
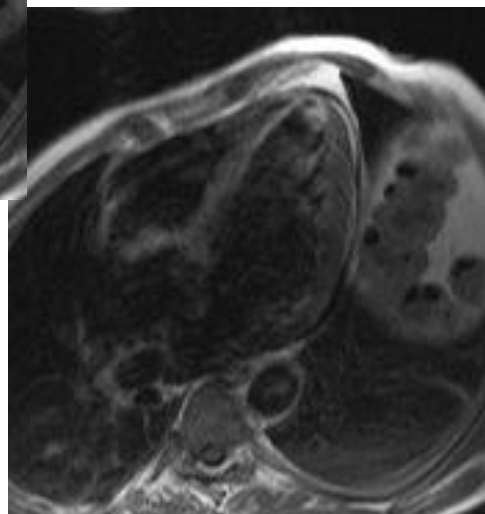
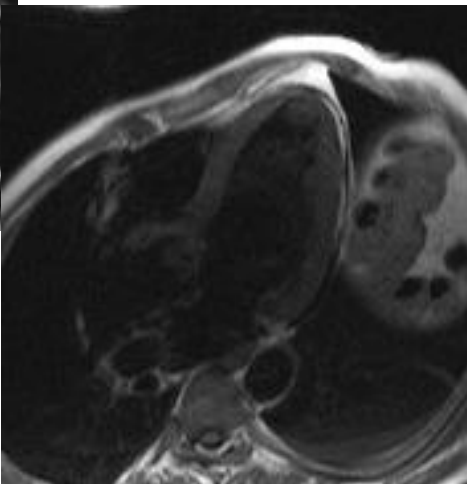
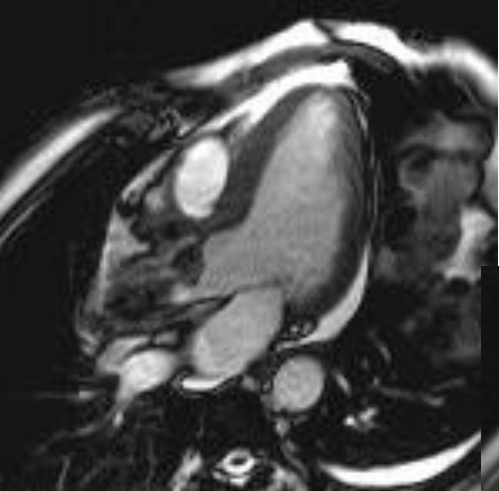
MR'ın infektif endokarditte etkili olmayacağını düşünmek
çok büyük bir yanılğı!

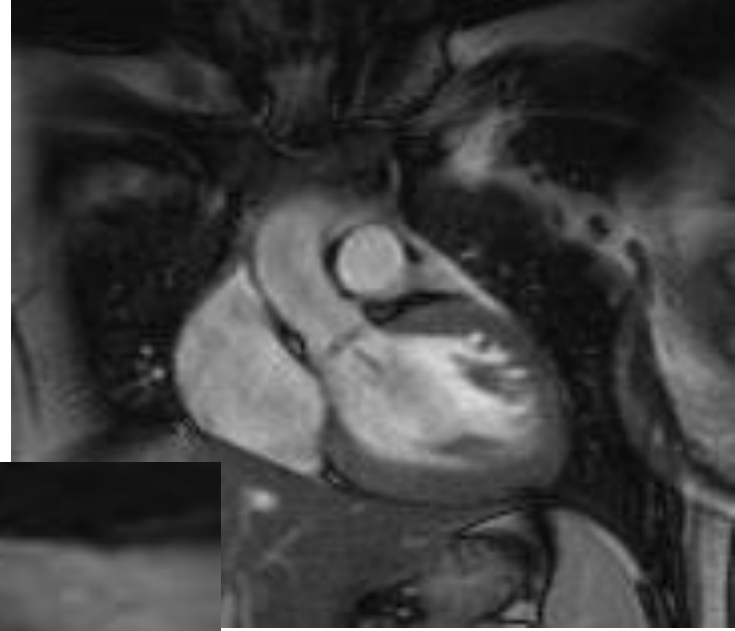
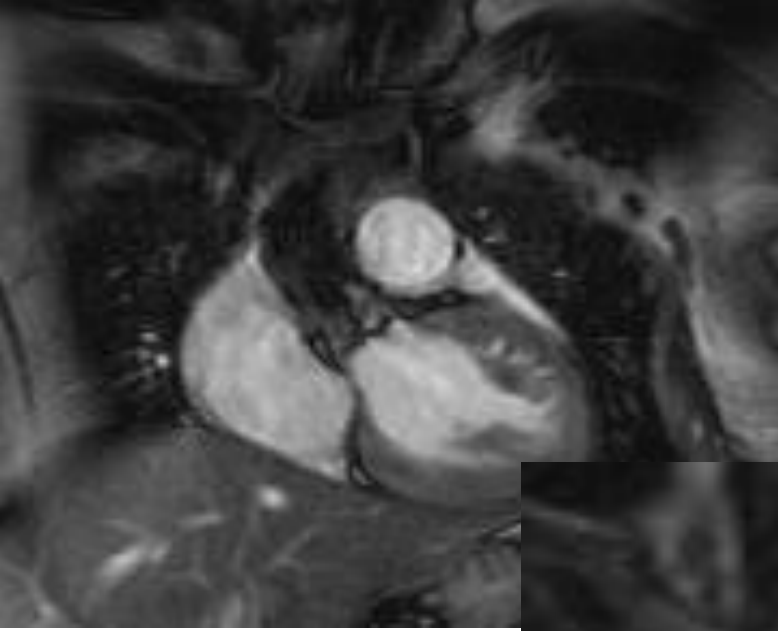


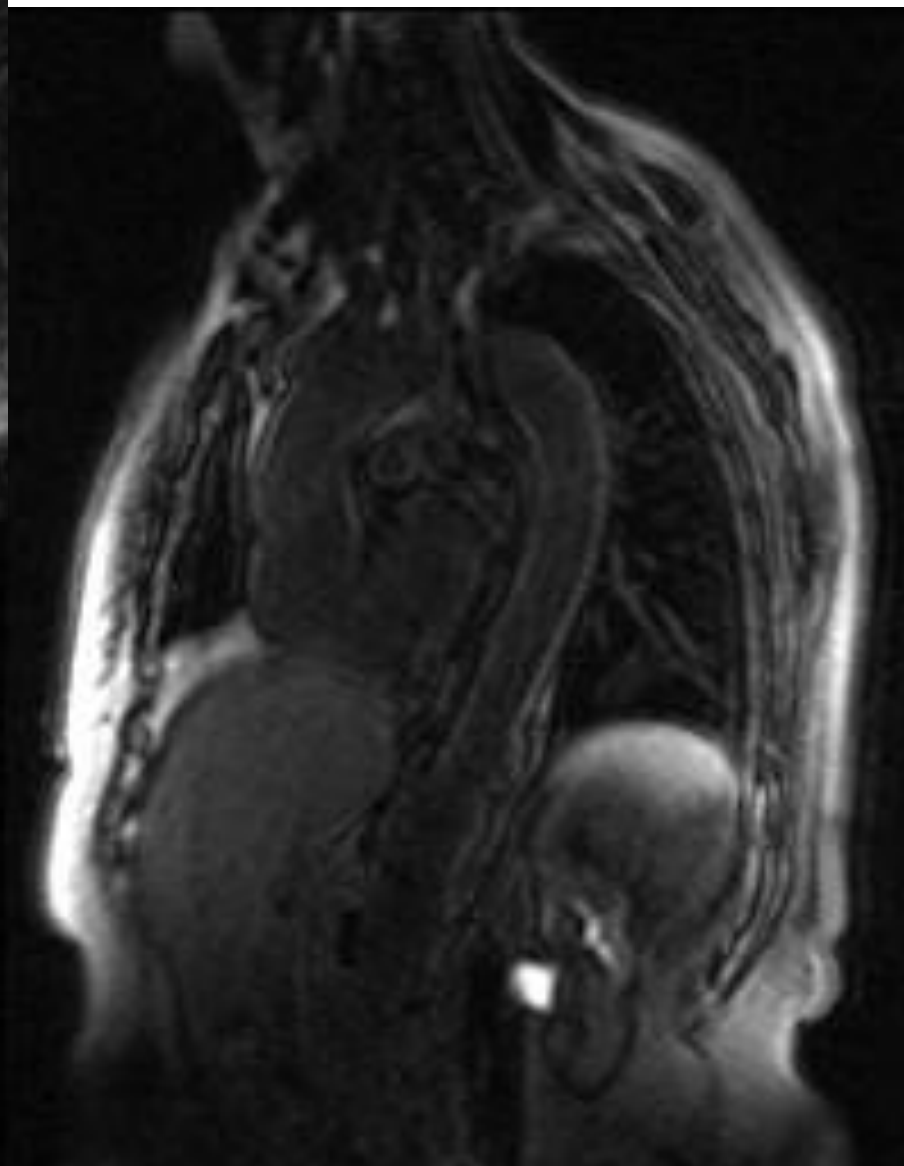
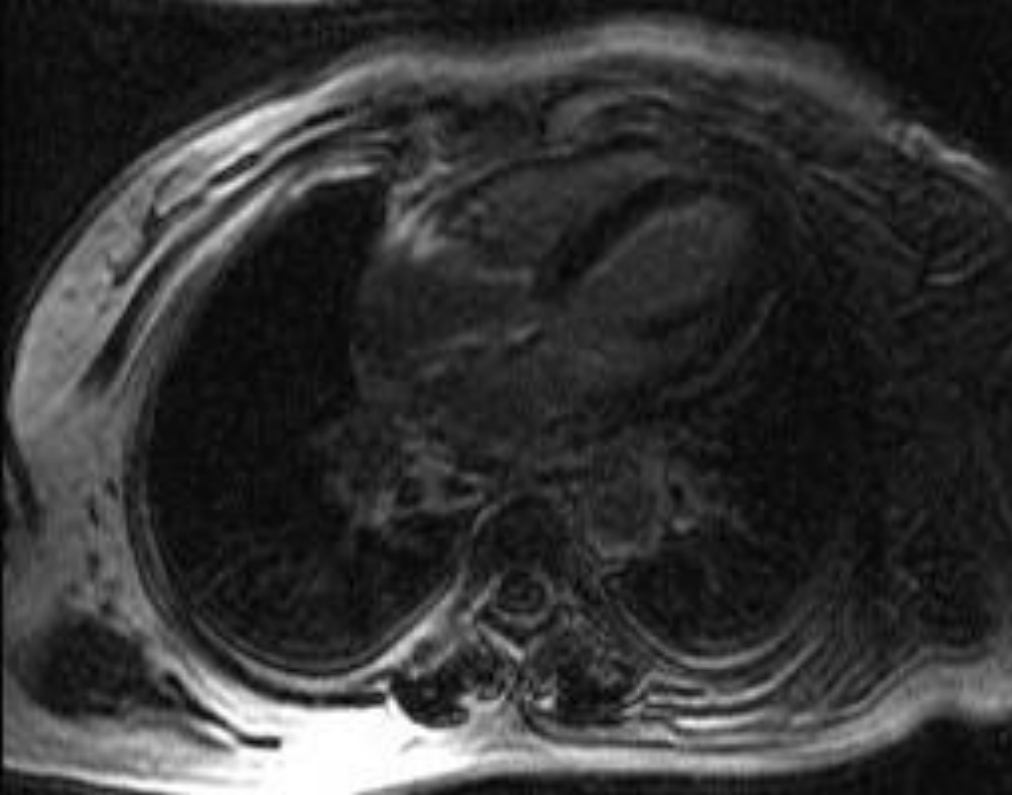


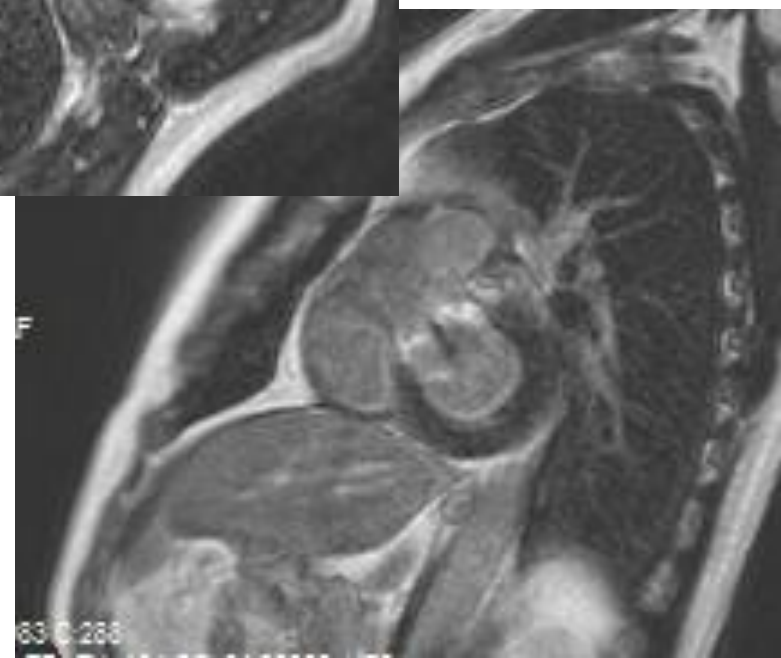
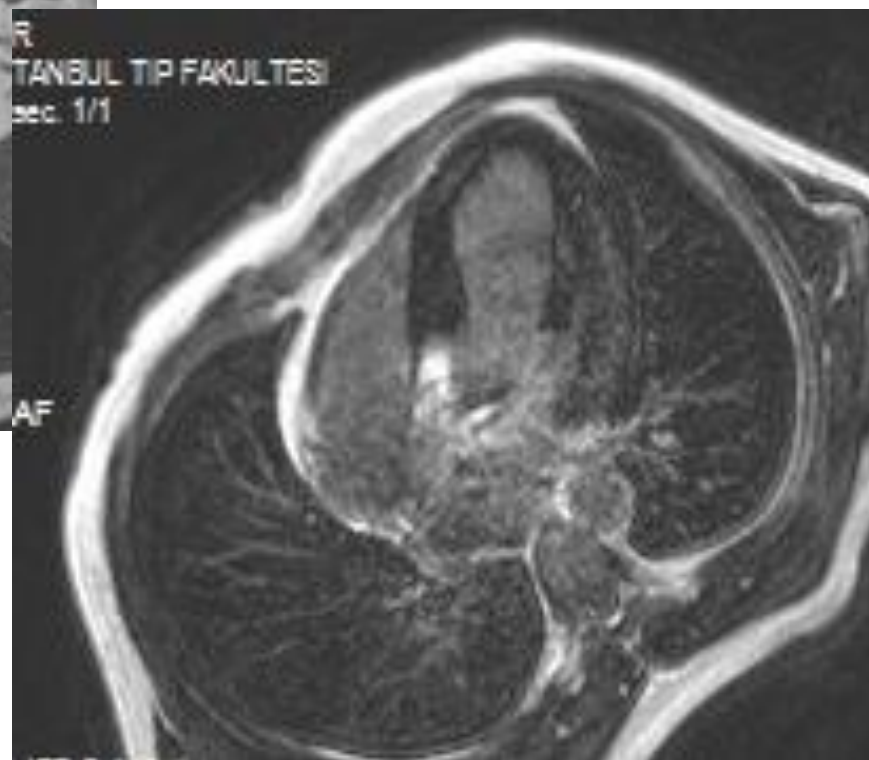


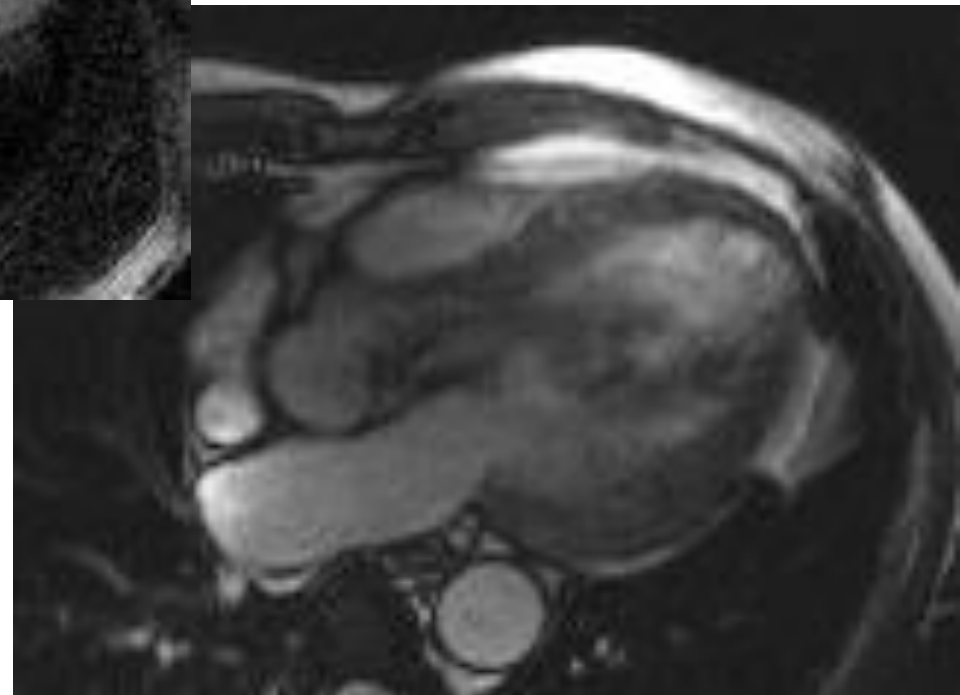
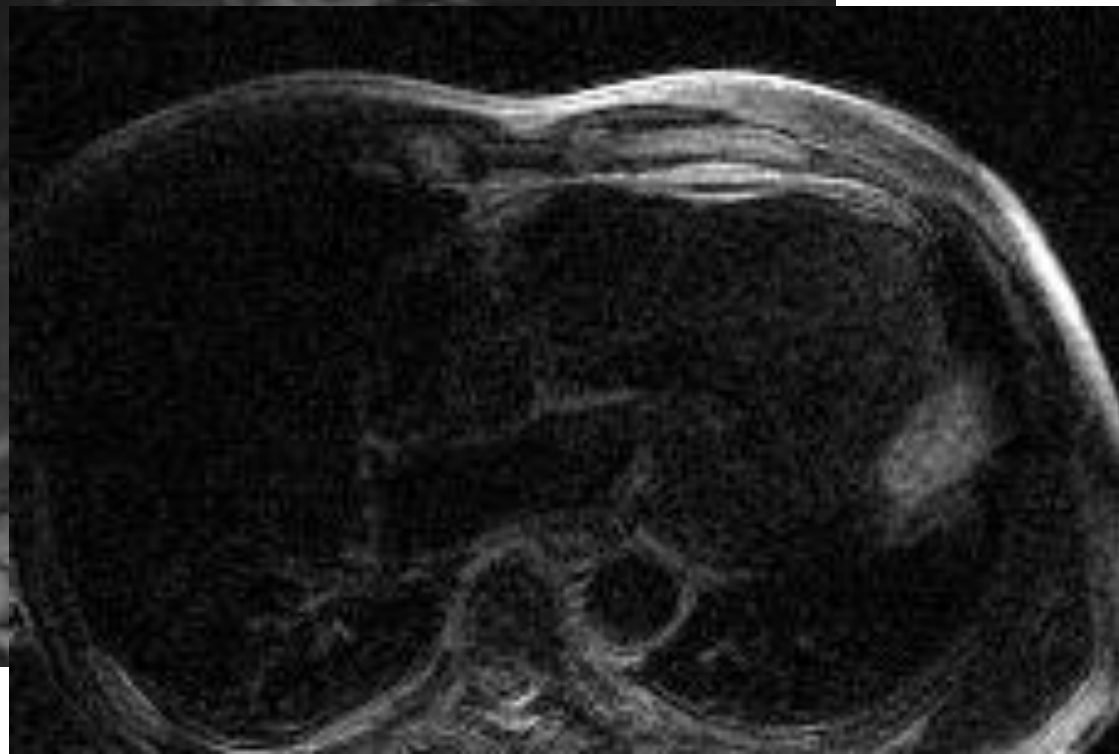












3 yaşımda VSD'li hasta

