CMR in Cardiac Sarcoidosis and Amyloidosis

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Disclosures

• Off label use of Gadolinium
SARCOIDOSIS

• Clinical overview
• -multisystem disorder
• -cardiac involvement – frequency and relevance
• -Japanese Ministry of Health and Welfare Guidelines
CMR findings

• Changes in wall thickness
• Abnormal regional or global function
• Edema
• LGE
• RV changes
Case
CMR protocol
Accuracy of CMR
Implications for treatment

- Efficacy of corticosteroid treatment early in course
- ICD
- Endomyocardial biopsy
- Need for non-invasive approach
CMR and sarcoid treatment
CARDIAC AMYLOIDOSIS

- extracellular accumulation of insoluble fibrillary proteins
- cardiac impact
- AL and TTR types most common to affect heart
- clinical impact of cardiac involvement
- diagnosis – EMB, or combination of Hx, non cardiac Bx, TTE
CMR features of amyloidosis

• important to differentiate from other causes of restr. Cardiomyopathy

• general features of restrictive cardiomyopathies

• more specific to amyloidosis: atrial wall thickening, pl/peric eff

• LGE: varied results from investigators; implications for scanning
CMR protocol
Cases