



1

Case

64 yo healthy man

Presents to ED with “bad palpitations . . . almost passed out”

Evaluation showed NSR with PVCs. Normal labs. Discharged with Holter



2

Case

64 yo healthy man

Presents to ED with “bad palpitations . . . almost passed out”

Evaluation showed NSR with PVCs. Normal labs. Discharged with Holter

3 weeks later

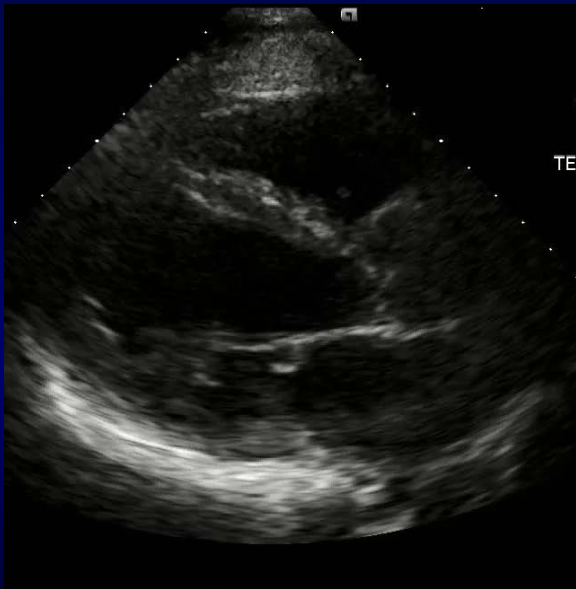
Cardiac arrest at home

Paramedics find him in VT

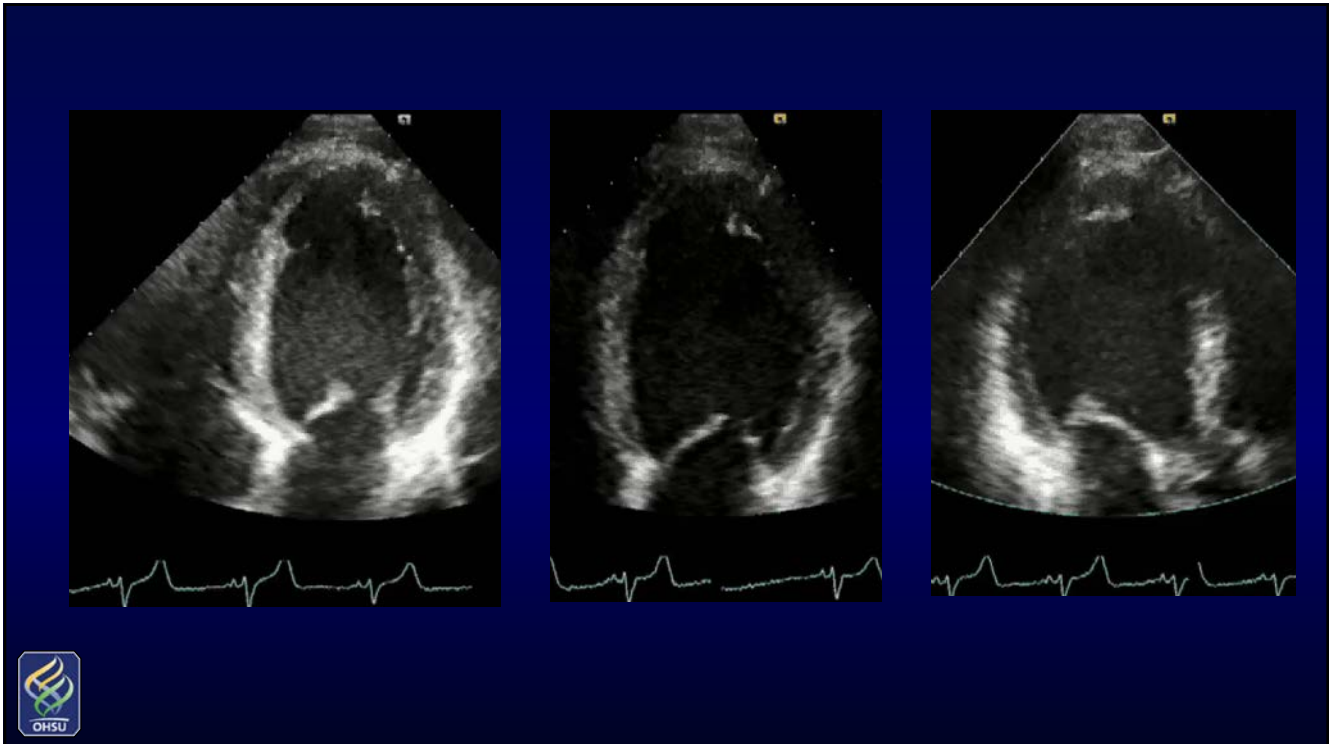
Shocked and resuscitated



3



4



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Case Consideration

Diffuse wall motion abnormalities, not in a coronary distribution

Dilated atria

Cath showed no coronary atherosclerosis



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Case Consideration

Diffuse wall motion abnormalities, not in a coronary distribution

Dilated atria

Cath showed no coronary atherosclerosis

DDX

Acute myocarditis

Idiopathic cardiomyopathy

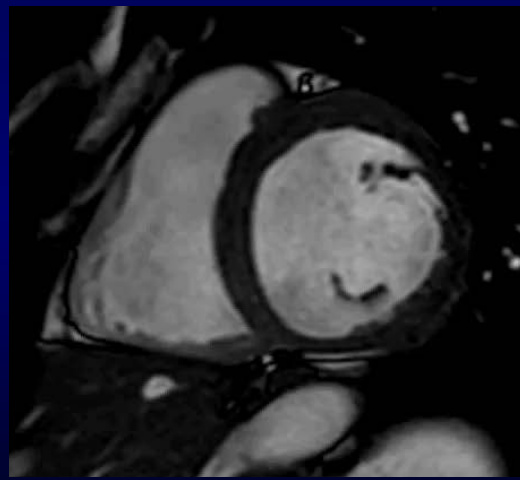
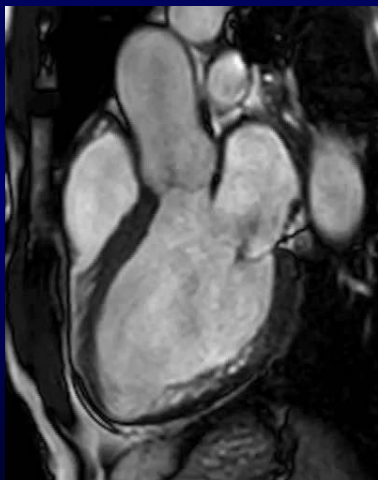
Amyloid

Sarcoid



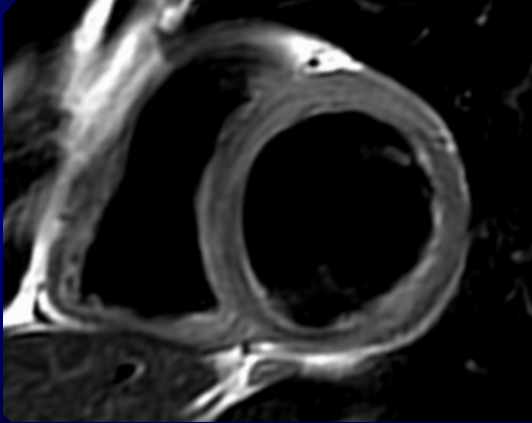
7

CMR Done



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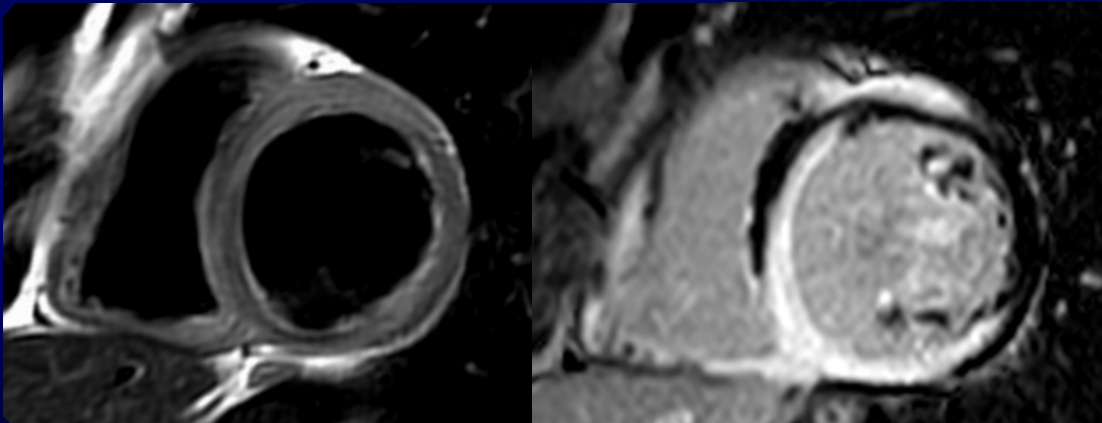
Abnormal myocardial tissue



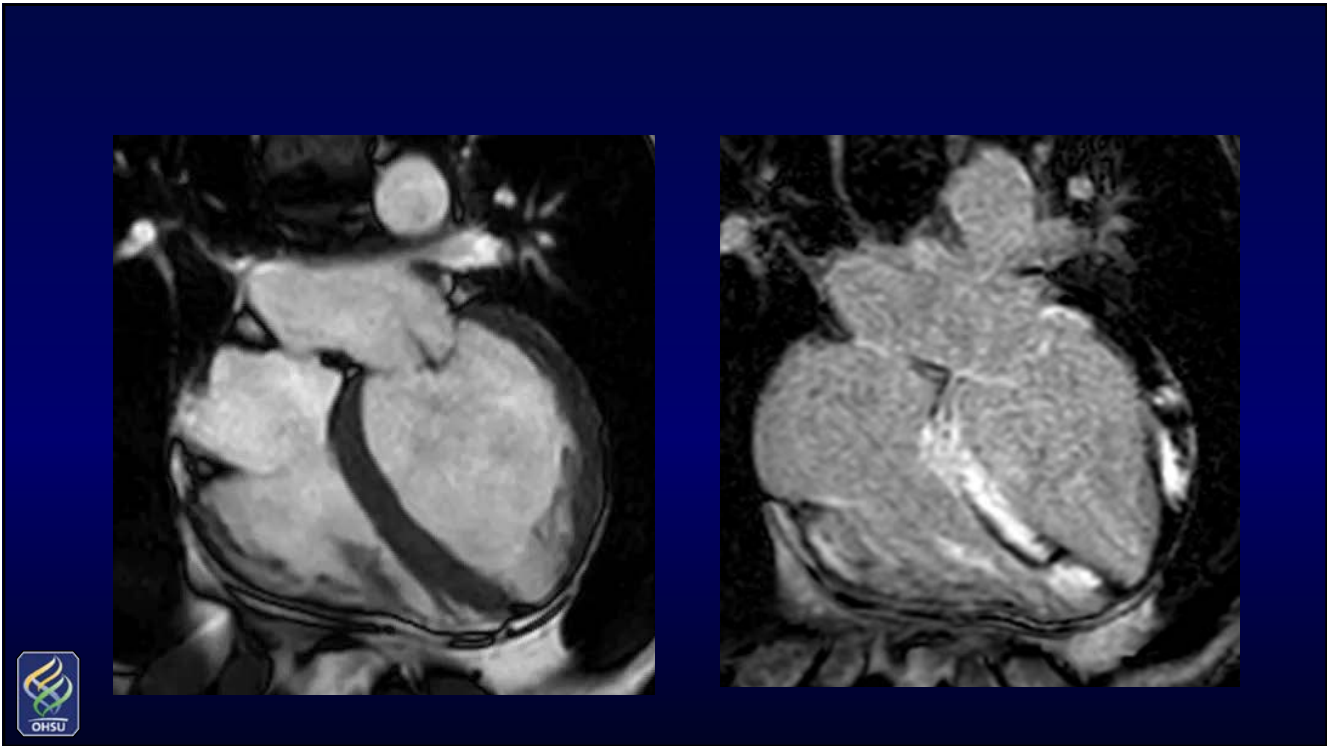
9

Abnormal myocardial tissue

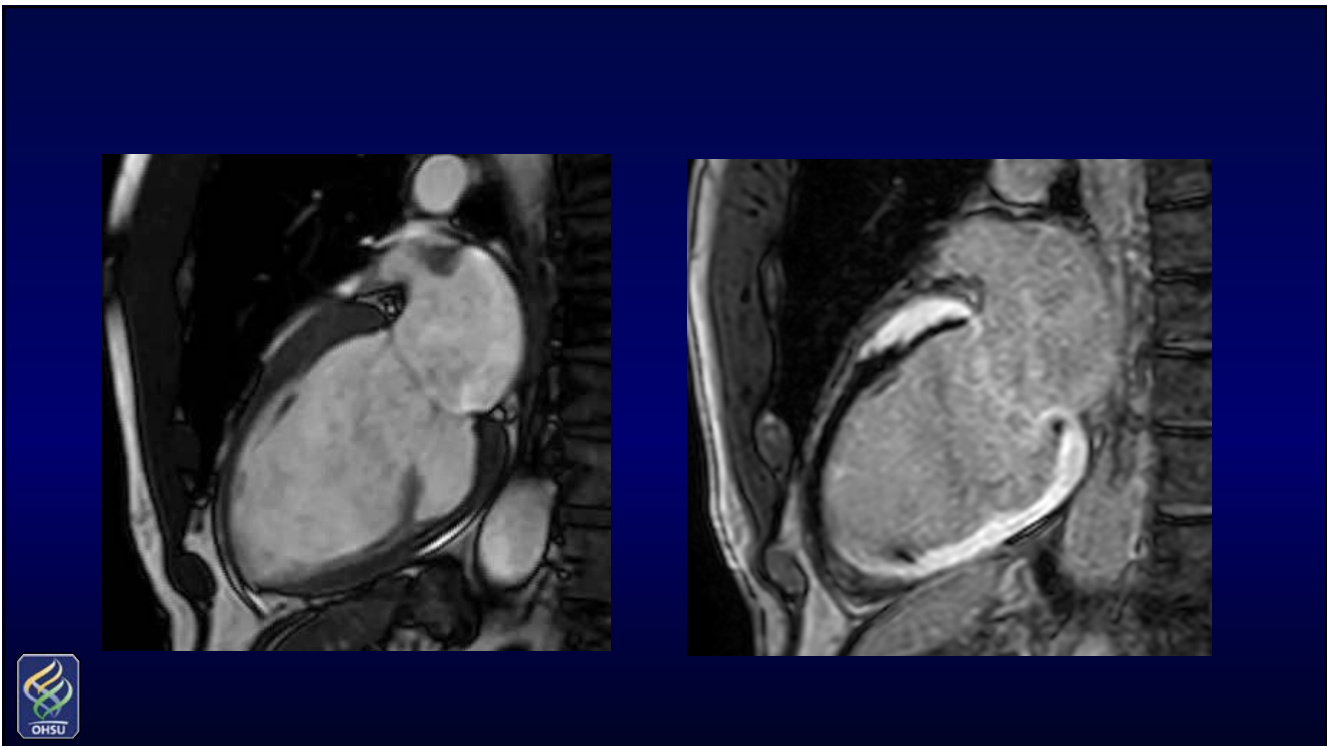
Extensive late enhancement



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Myocardial biopsy

Myocardium with lymphoplasmacytic infiltrate and fibrosis, giant cells arranged in well formed non-necrotizing granulomas involving the myocardium with associated lymphoplasmacytic infiltrate and fibrosis. Focal asteroid bodies are present . . .



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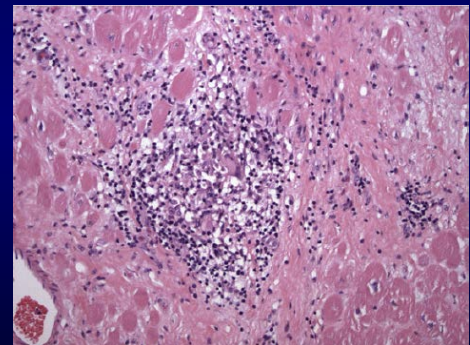
Myocardial biopsy

Myocardium with lymphoplasmacytic infiltrate and fibrosis, giant cells arranged in well formed non-necrotizing granulomas involving the myocardium with associated lymphoplasmacytic infiltrate and fibrosis. Focal asteroid bodies are present . . .

. . . myocardial sarcoidosis

Given prednisone taper
CHF meds

Improved in 6 months



Dubrey S, (ProgCardiovasc Dis 2010;52:336-346)



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CMR for cardiac sarcoidosis

Sensitivity 93% (95% CI 87-97)

Specificity 85% (95% CI, 68-94)

Often needs additional imaging



JACC Cardiovasc Imaging. 2017 Dec;10(12):1437-1447.

Zhang J, Can Respir J. 2018 Dec 17;2018:7457369

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