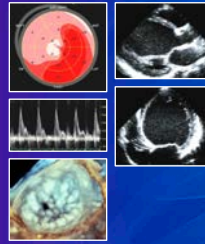




Interesting Cases Echo Hawaii 2020

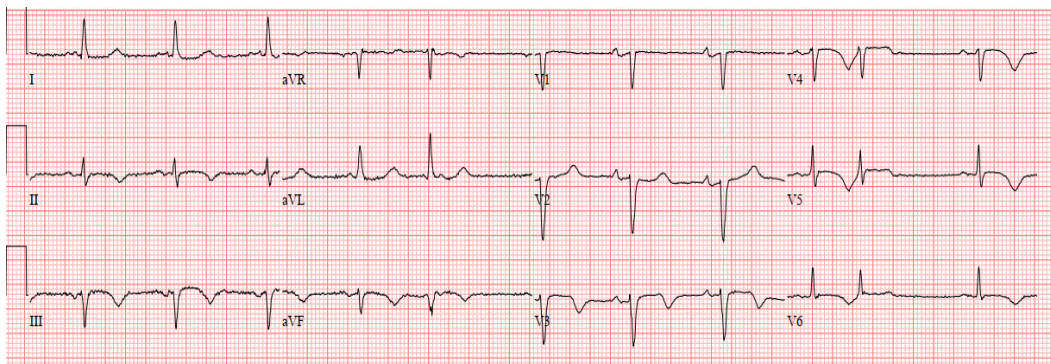


Jae K. Oh, MD
Jan. 24th, 2020

©2018 MFMER | 3712003-1

1

75 year old woman with breast Ca and radiation Rx
Admitted with sudden onset of chest pain



- Troponin T 810
- Stable hemodynamics

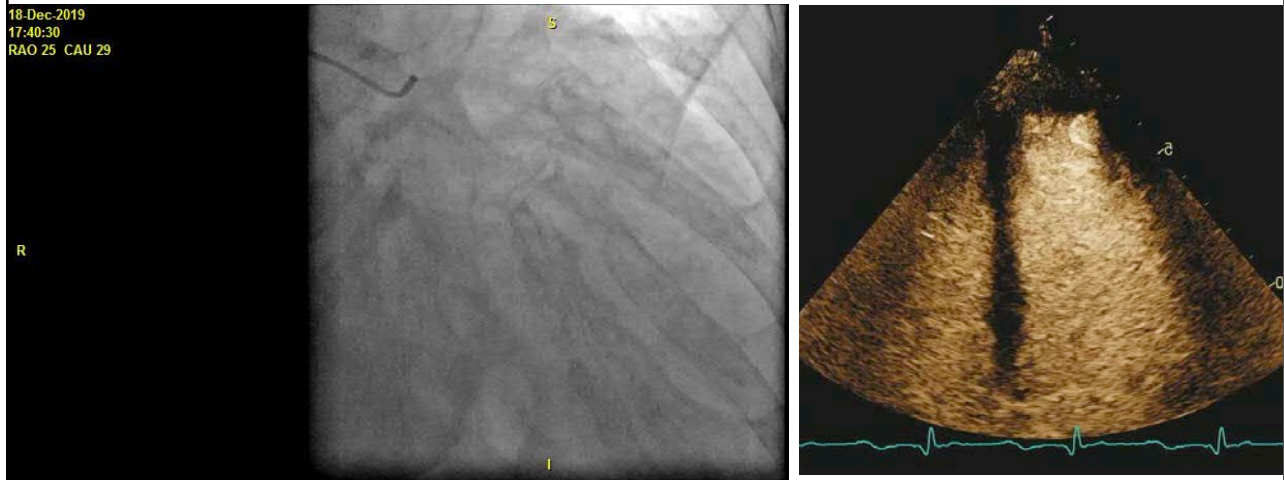


©2018 MFMER | 3712003-2

2

75 year old woman with breast Ca and radiation Rx
Admitted with sudden onset of chest pain : NSTEMI

18-Dec-2019
17:40:30
RAO 25 CAU 29

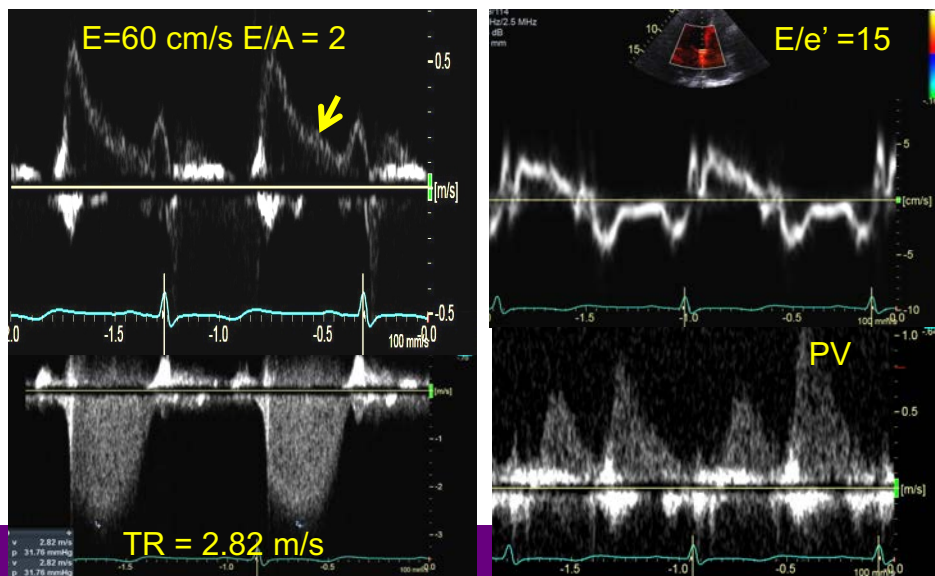


©2018 MFMR | 3712003-3

3

75 year old woman with NSTEMI
Apical Stress CM

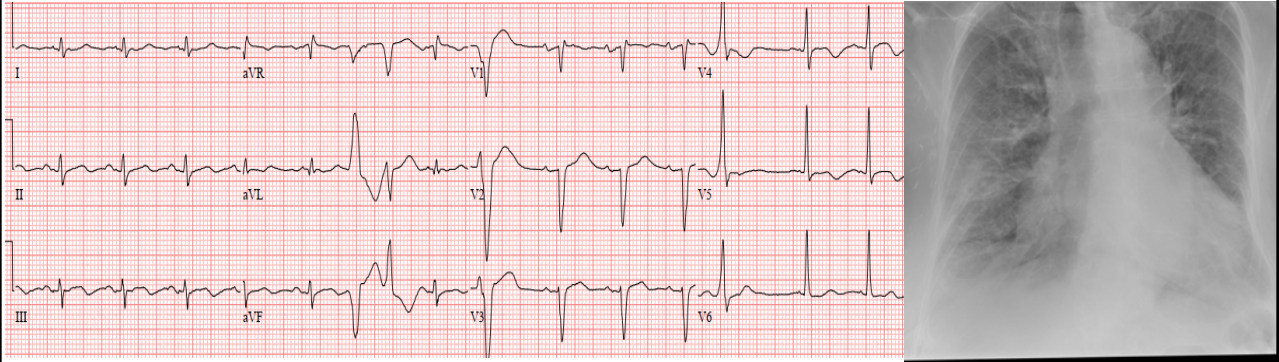
- Dismissed on ASA, beta-blocker, ARB, Statin and Diuretic



©2018 MFMR | 3712003-4

4

75 year old woman with Apical Stress CM (TakoTsubo)
Admitted with increasing dyspnea 1 week later

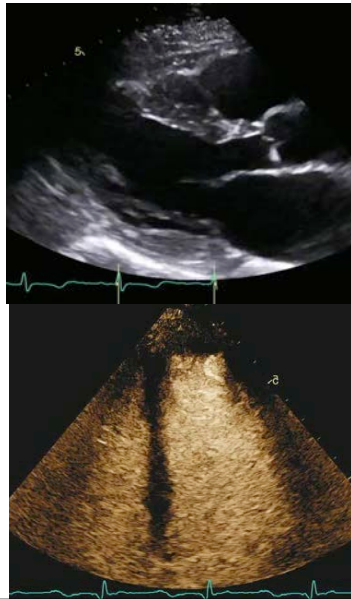


©2018 MFMER | 3712003-5

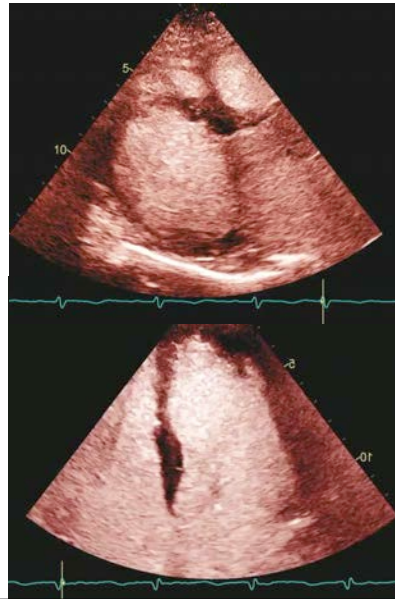
5

75 year old woman with Apical Stress CM (TakoTsubo)
Admitted with increasing dyspnea 1 week later

Dec 19th

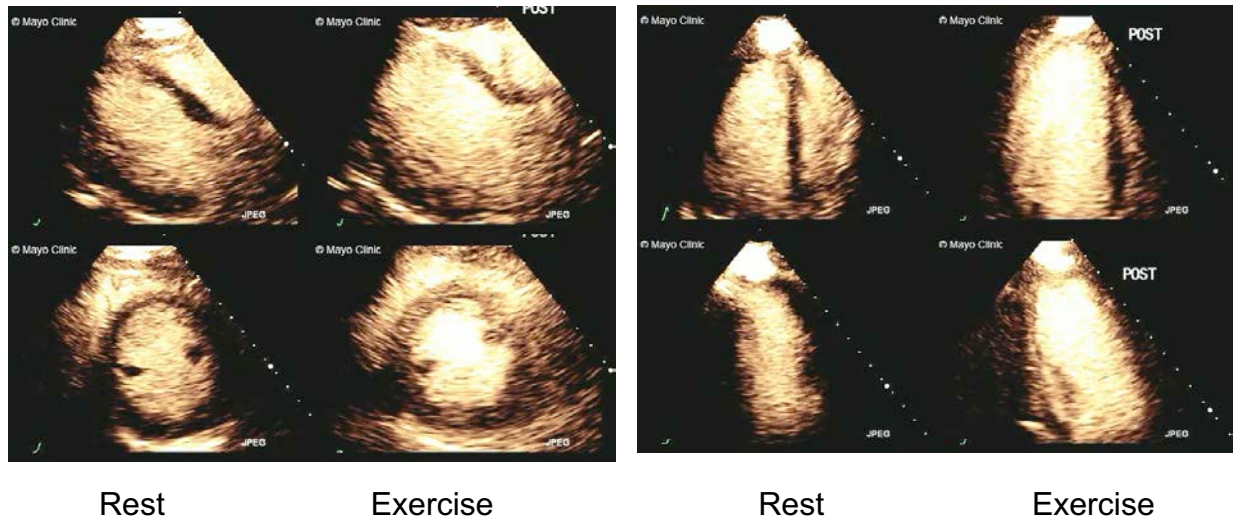


Dec 24th



6

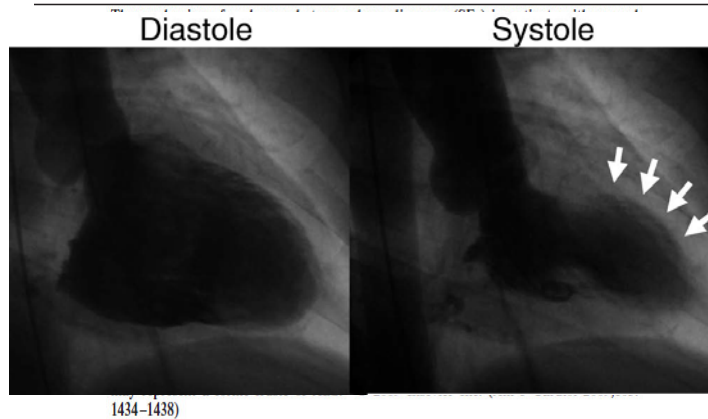
75 yo woman with stress cardiomyopathy Dyspnea on exertion 3 years earlier



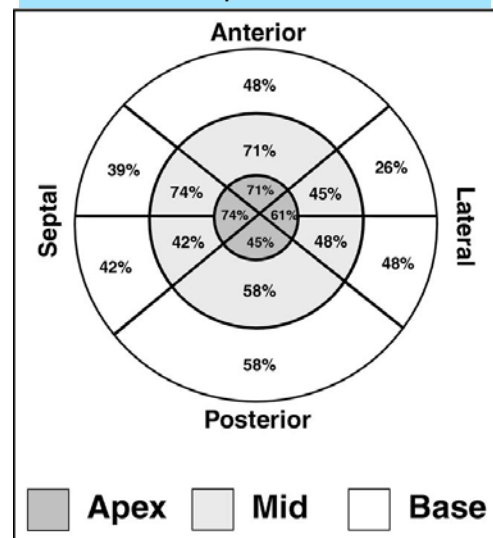
7

Are Some False-Positive Stress Echocardiograms a Forme Fruste Variety of Apical Ballooning Syndrome?

Aaron M. From, MD, Abhiram Prasad, MD*, Patricia A. Pellikka, MD, and Robert B. McCully, MBChB



31 patients: 87%
Postmenopausal women



From and McCully et al AJC 2009

©2018 MPFER | 3712003-8

8

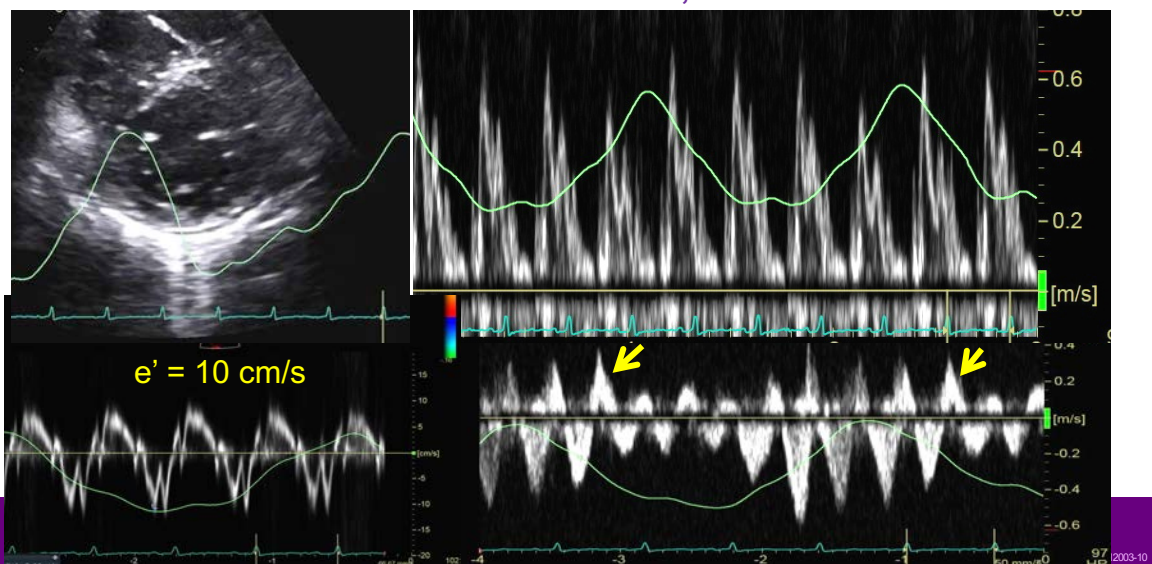
52 year old female with atrial fibrillation Hypotension during ablation procedure



©2018 MFMER | 3712003-9

9

52 year old female with atrial fibrillation Pericardiocentesis during ablation procedure Treated with NSAID and Colchicine, but SOB and CP



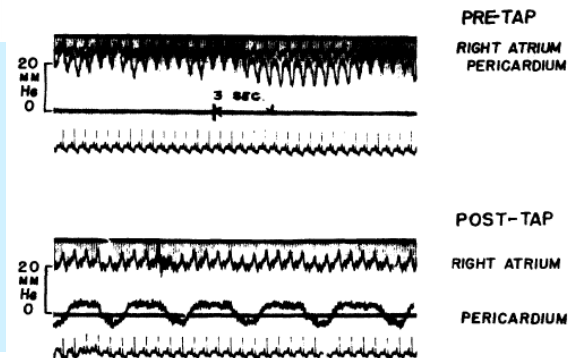
10

Subacute Effusive-Constrictive Pericarditis

By E. W. HANCOCK, M.D.

Circulation, Volume XLIII, February 1971

- Pre-tap : Increased RA and Intrapericardial pressures (IPP)
- Post-tap: Increased RA pressure and normal IPP
- 9/13 required pericardiectomy



©2018 MFMER | 3712003-11

11

Effusive-Constrictive Pericarditis After Pericardiocentesis

Incidence, Associated Findings, and Natural History

Kye Hun Kim, MD,^{a,b} William R. Miranda, MD,^a Larry J. Sinak, MD,^a Faisal F. Syed, MBChB,^a Rowlens M. Melduni, MD,^a Raul E. Espinosa, MD,^a Garvan C. Kane, MD,^a Jae K. Oh, MD^a

- 205 consecutive patients with pericardiocentesis
- ECP was diagnosed in 33 (16%)
 - More frequent hemo-pericardium (33% vs 13%)
 - Higher % of neutrophils
 - Baseline medial mitral annulus e' higher
 - Expiratory diastolic flow reversal in HV more frequent
 - 2 required pericardiectomy in 3.8 year follow-up

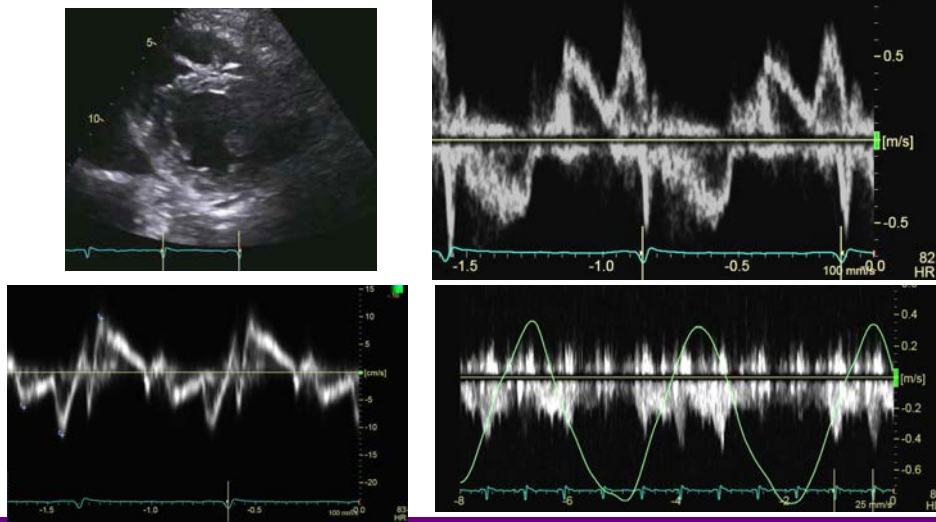


Kim KH, Miranda W, Oh JK et al JACC Imaging Nov 2017

©2018 MFMER | 3712003-12

12

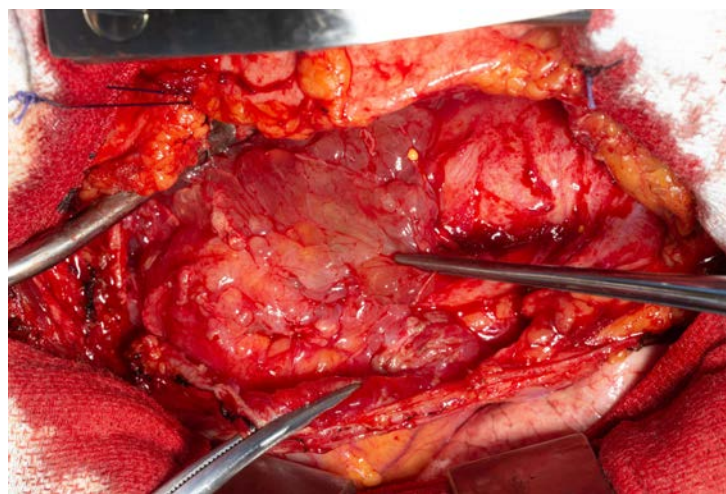
52 year old female with Effusive Constriction
Persistent chest pain, treated with steroid



©2018 MFMER | 3712003-13

13

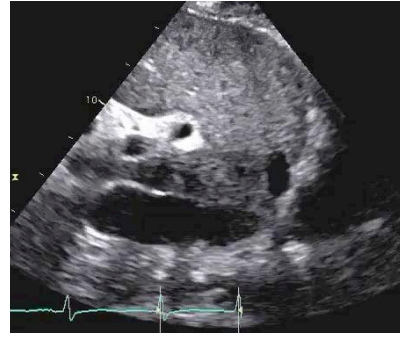
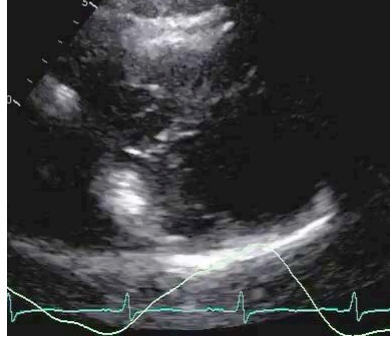
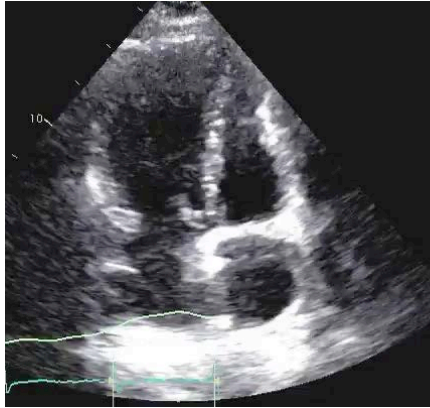
52 year old female with Effusive Constriction
Persistent pain on steroid



©2018 MFMER | 3712003-14

14

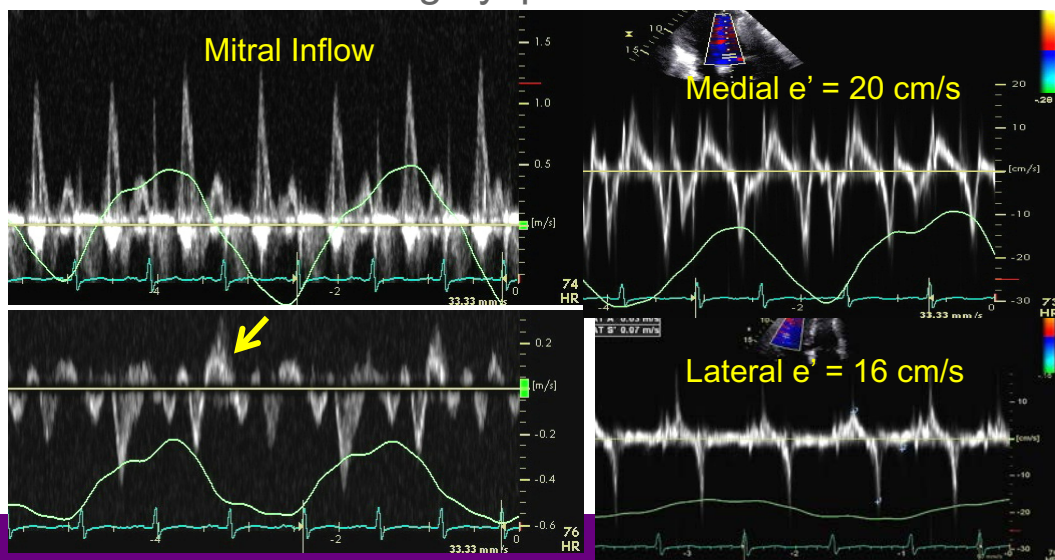
54 year old physician with history of pericarditis
Increasing dyspnea and edema



©2018 MFMER | 3712003-15

15

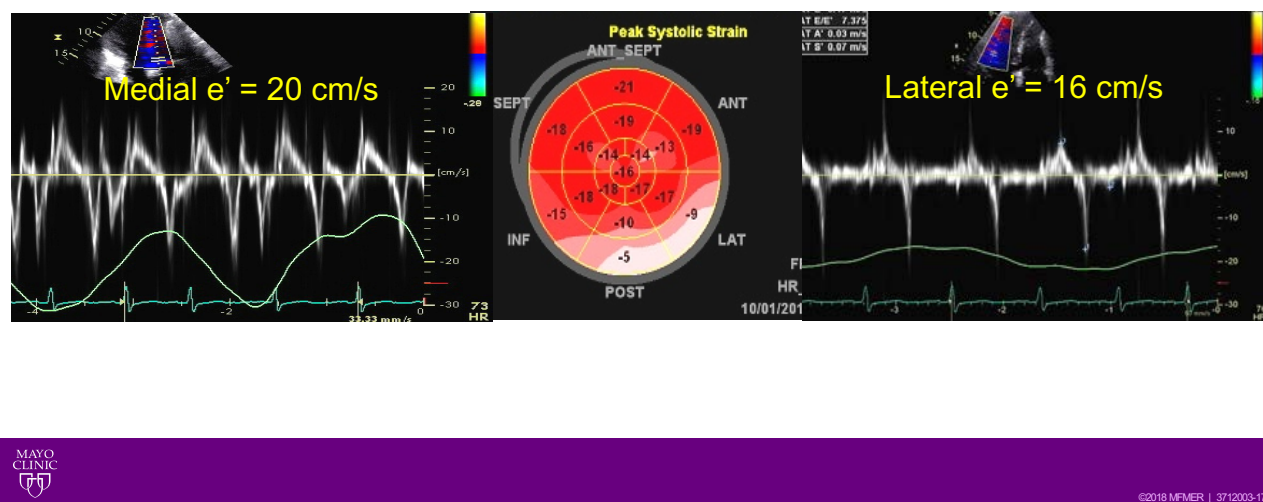
54 year old physician with history of pericarditis
Increasing dyspnea and edema



©2018 MFMER | 3712003-16

16

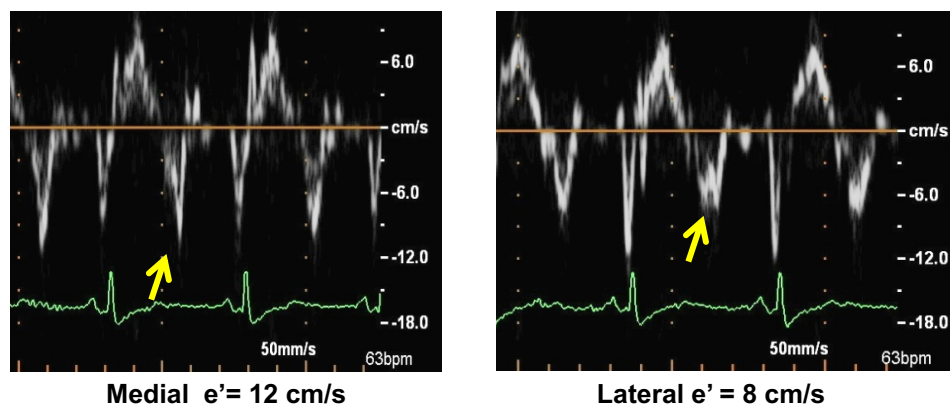
54 year old physician with history of pericarditis
Increasing dyspnea and edema



17

Using mitral 'annulus reversus' to diagnose constrictive pericarditis

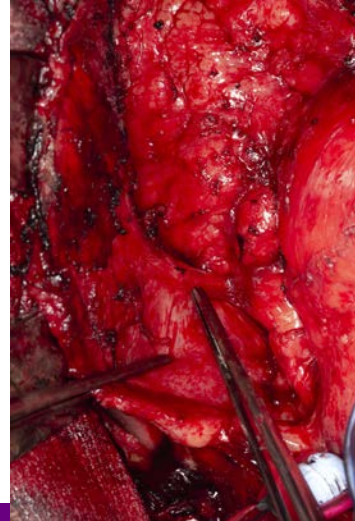
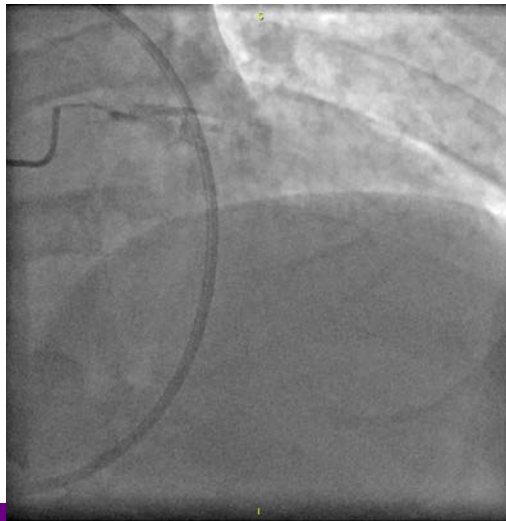
Christina S. Reuss¹, Susan M. Wilansky¹, Steven J. Lester¹, Joan L. Lusk¹, Diane E. Grill²,
Jae K. Oh³, and A. Jamil Tajik^{1*}



Reuss et al, EHJ Imaging June 2008

18

Pericardiectomy after Coronary Angiography Diastolic Compression of Coronary Artery



JACC Case Report 2020 by Georgios Christopoulos et al

©2018 MFMER | 3712003-19

19

Diastolic Segmental Coronary Artery Obliteration in Constrictive Pericarditis

Emanuel Goldberg, MD, Julius Stein, MD, Marvin Berger, MD,
and Russell L. Berdoff, MD

A patient with severe constrictive pericarditis demonstrated a new angiographic sign of segmental diastolic obliteration of an obtuse marginal branch of the circumflex system of the left coronary artery.

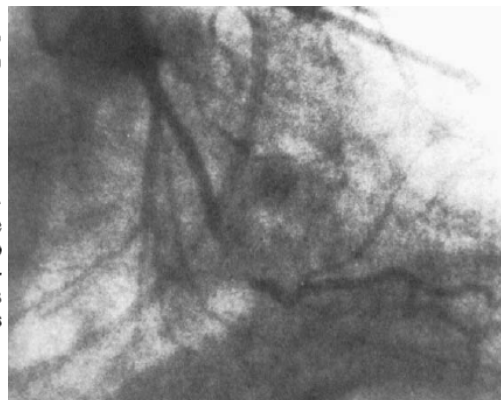
Key words: pericarditis, constrictive; coronary artery, diastolic narrowing

INTRODUCTION

Although no abnormalities of the coronary arteries have been reported in constrictive pericarditis, it is known that radiation fibrosis of the heart can cause narrowing or constriction of coronaries [1]. In the case report below, there was no constriction or narrowing of the coronary arteries, but there was segmental diastolic obliteration of a large marginal branch of the circumflex. In systole, this vessel also showed some minimal narrowing most probably from extrinsic fibrosis since the remaining coronary vessels were completely free of intrinsic disease.

CASE REPORT

A sixty-nine-year-old man was admitted to Beth Israel Medical Center in April 1979 because of abdominal swelling and edema of the legs. He also noted increasing dyspnea on exertion. He had had pulmonary tuberculosis in 1941, followed one year later by pericarditis. On physical examination, blood pressure was 120/70 mm Hg. He

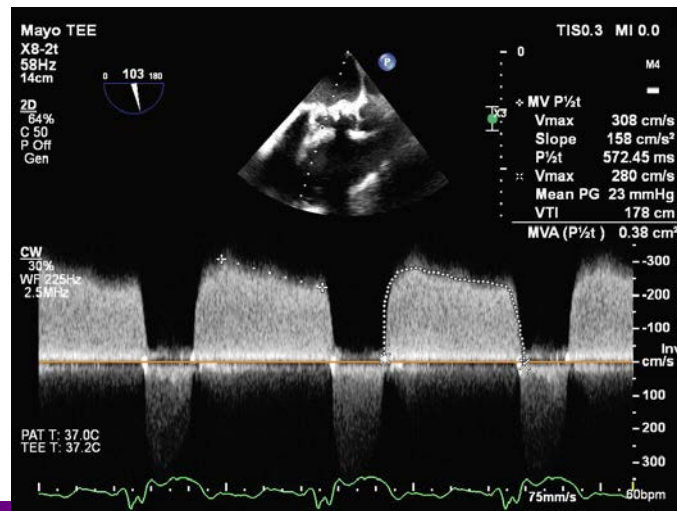


Catheterization and CV Diagnosis 1981

©2018 MFMER | 3712003-20

20

47 yo woman with AVR and MVR with bio-prostheses. Increasing Dyspnea

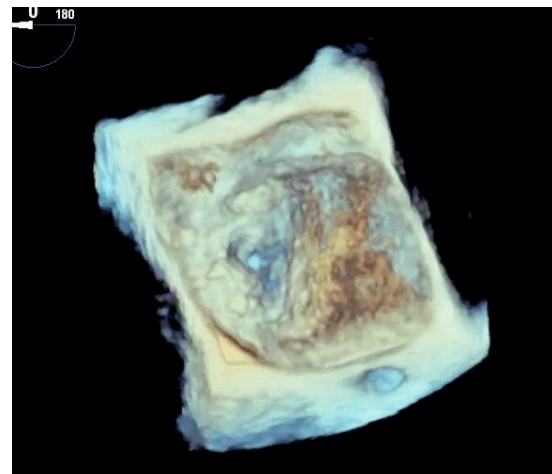


$$\text{MVA} = 220 / 572$$

$$= 0.38 \text{ cm}^2$$

21

The most amazing case: 47 yo woman with AVR and MVR with bio-prostheses. Increasing Dyspnea



22