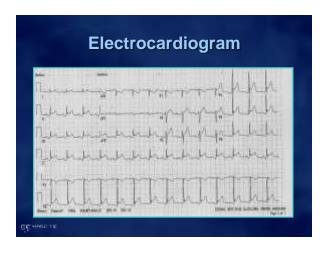








Pericardial Disease A 46 y/o man presents with 2 days of severe pleuritic chest pain, preceded by an URI On exam BP 120/70 HR 90 JVP normal Carotid full Normal heart sounds 3 component rub at LSB



By the way
What do you call
two orthopods
reading an ECG?





Echocardiogram
Normal LV size function
No RWMA
No pericardial effusion



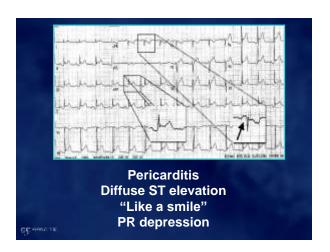
Pericardial Disease

You do not need an echocardiogram to diagnose acute pericarditis

A normal echocardiogram does not rule out acute pericarditis

GE HORES

Pericardial Disease Acute pericarditis ✓Inflammation of the pericardium usually due to a viral infection ✓Diagnosed by history, rub and elevated sed rate + EKG ✓Troponin valuable for risk-stratification ✓Inpatient admission if positive



Pericardial Disease

Other tests needed only in certain circumstances

- Autoimmune profile if recurrent
- · Viral titers of little use
- PPD, HIV serology only if high level suspicion
- Echo if high JVP or pulsus paradoxus

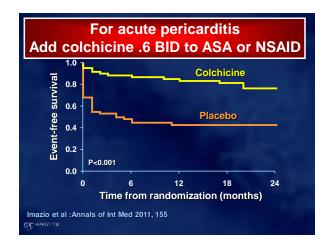
de nomes

Pericardial Disease

How would you treat this patient?

- 1.Short burst of steroids
- 2. NSAID and colchicine
- 3. ASA and colchicine
- 4. Interferon
- 5. Colchicine

GE-MARKET



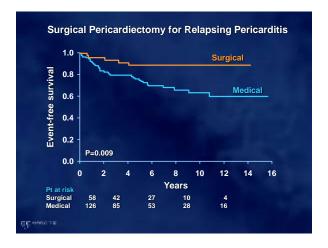
Pericardial Disease The patient was treated with steroids for one month (40 taper to 20 mg)

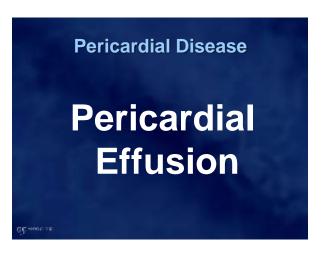
The patient was treated with steroids for one month (40 taper to 20 mg) Recurrence 1 month later Recurrent debilitating pericarditis whenever predisone is dropped below 15 mg

Pericardial Disease Treatment of acute pericarditis Best: NSAID or ASA (high dose) for at least one month, then taper slowly (watch sed rate) Add colchicine for 6 months Do NOT use steroids because of risk of relapsing pericarditis

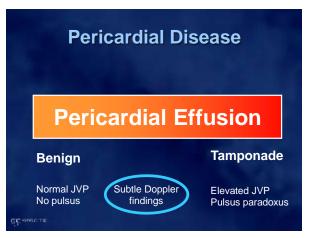


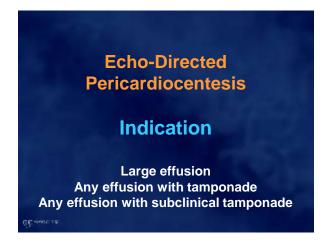
Pericardial Disease Severe relapsing pericarditis Medical Rx High dose ASA - slow taper off prednisone while on ASA (level 10-20) Colchicine Complete pericardiectomy



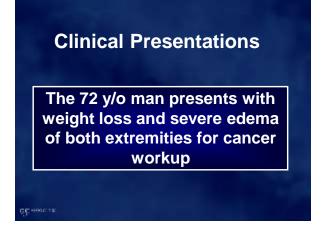


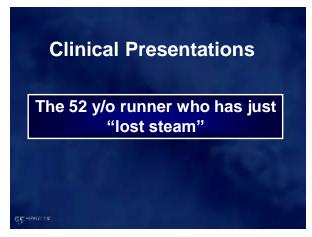




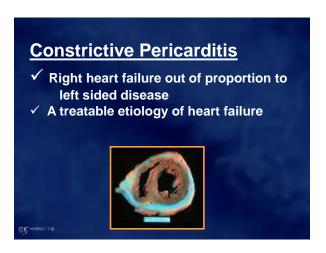




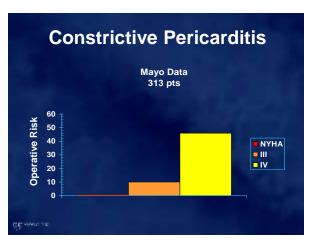


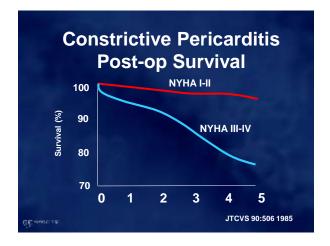


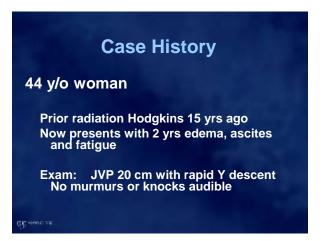








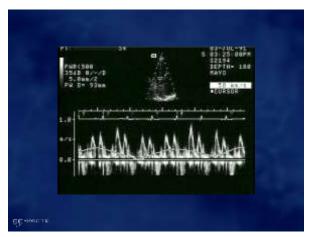




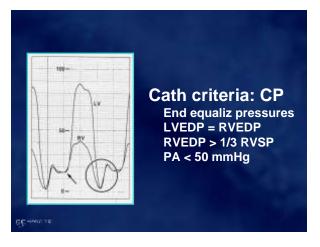


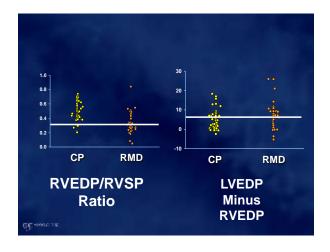


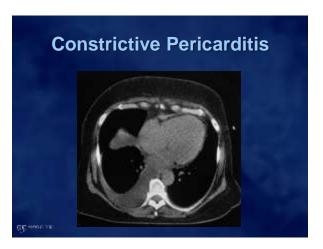










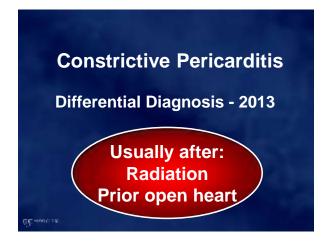


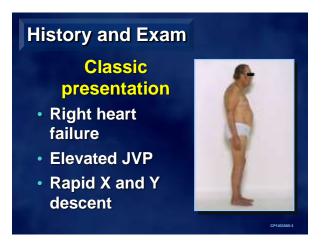
Pericardial Thickness: CT/MRI

Normal pericardium on CT/MRI: 22% pts with proven CP

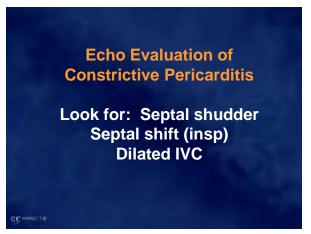
Thickened pericardium: 70% pts after radiation or bypass

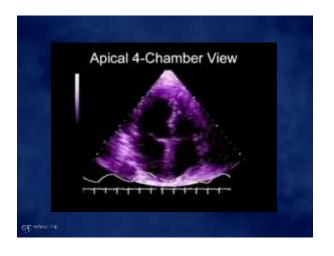


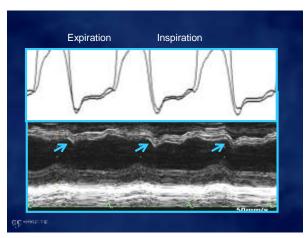




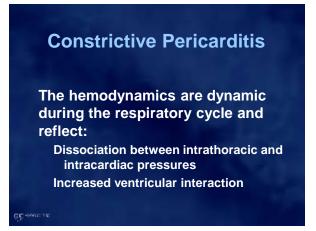


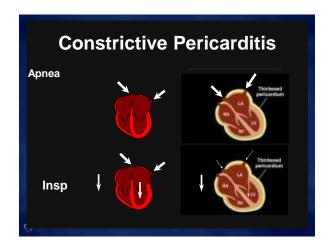


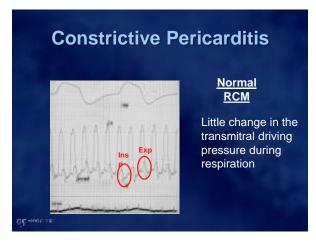


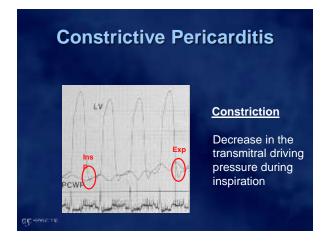


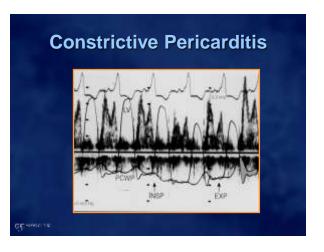


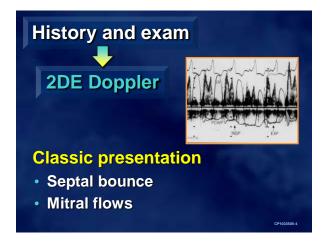






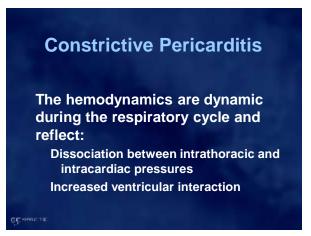


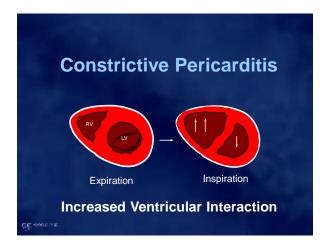




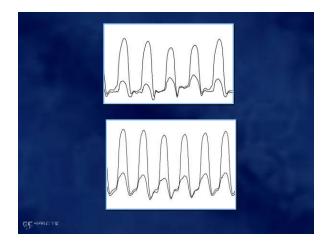


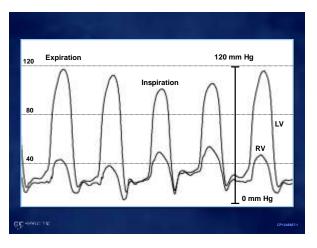


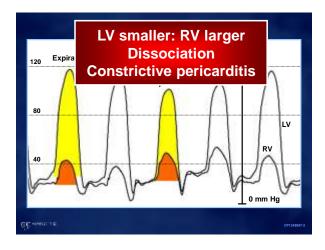


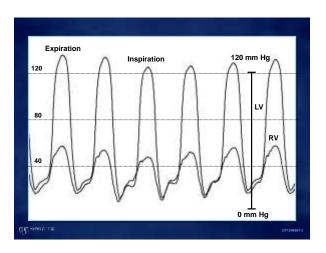


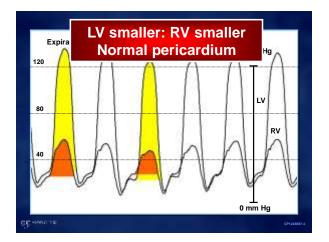


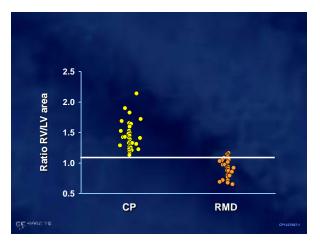




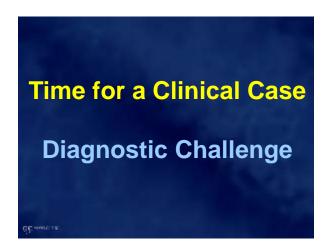








Enhanced ventricular interaction is the most sensitive and specific finding for constrictive pericarditis



75 y/o prominent MD from academic center
Referred for "restrictive cardiomyopathy"

Past history complicated
 1998 PTCA LAD for "atypical chest pain"
 1999 Bradycardia PPM
 6/00 Acute chest pain – emergency angio
 Diagnosis acute pericarditis
 5/01 Recurrent pericarditis – colchicine
 8/01 Onset progressive SOB and edema
 Requiring increasing diuretics
 Now 120 mg furosemide BID

Multiple work-ups – multiple institutions
Several catheterizations
RA 12 mmHg – up to 20 mmHg
with fluid
Endomyocardial biopsy – fibrosis
with myocyte hypertrophy
Labs: proteins, iron, thyroid normal
Skeletal muscle biopsy "atypical
inclusion bodies"

Diagnosis: restrictive cardiomyopathy

Exam: BP 128/70 P 70

JVP 18 cm – large "V"

Lungs – clear

LV quiet 1+ parasternal lift

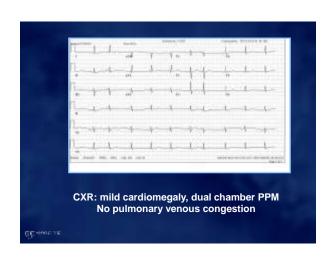
S1 normal S2 narrowly split

Soft 1/6 barely audible

Holosytolic murmur

Early diastolic filling sound

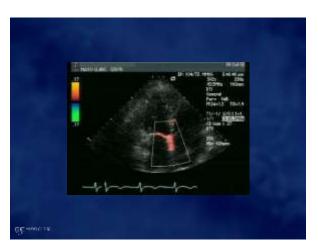
Bilateral pitting edema



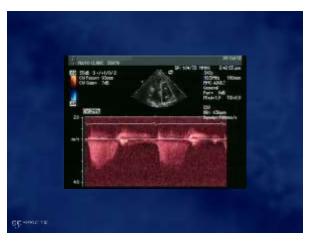






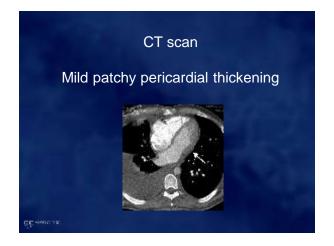




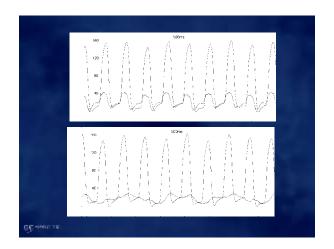




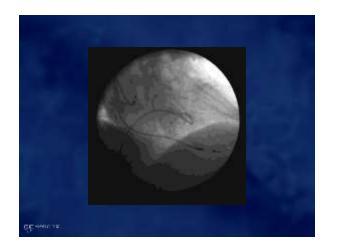


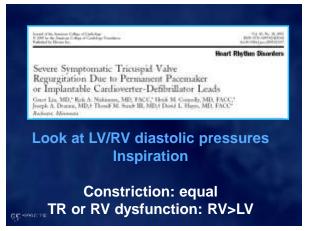


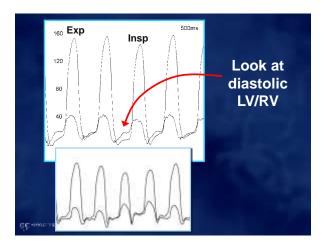












Severe Tricuspid Regurgitation ✓Increasing incidence from PPM and AICD ✓Simulates constrictive pericarditis ✓Subtle changes in diastolic pressures

Pericardial Disease A Simple Problem?

Misdiagnosed
Under-treated

