

Thursday

Puzzling Cases to Learn From:
Read with the Experts



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January 20, 2022

 TEXAS HEART INSTITUTE

Disclosures: *None*

Case - 1

37 yr  active high school principal

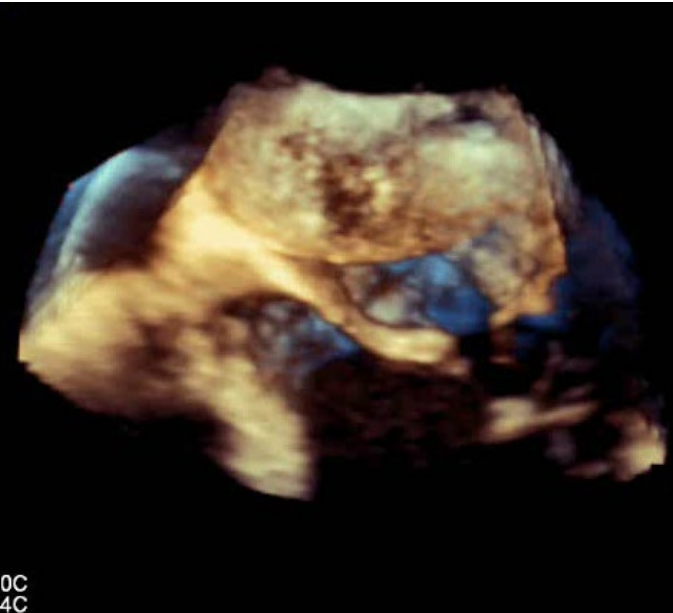
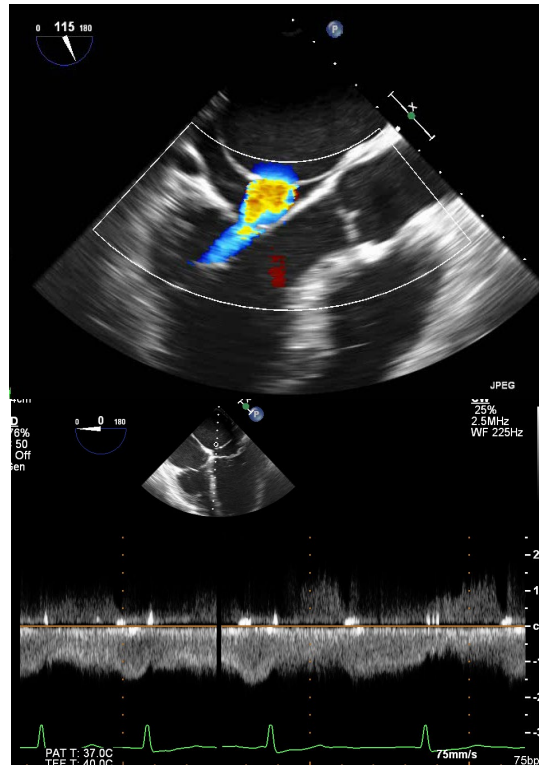
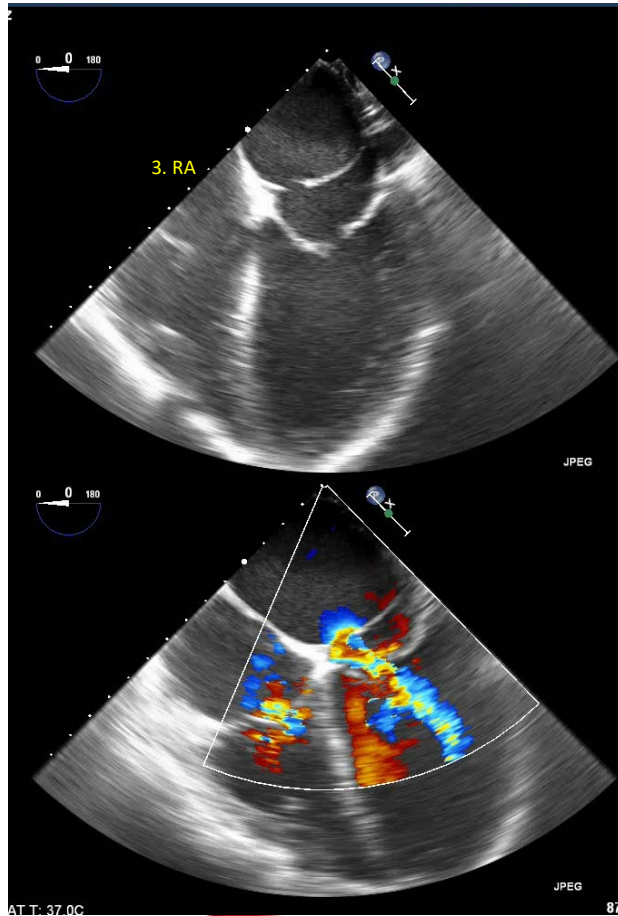
- Since childhood: exercise – induced asthma
- Played sports (volley ball)
- No rest symptoms – “**exertional wall**” with sports- FC I⁺ (sudden onset fatigue, SOB, resolved with rest – her whole life.
- New Heart Failure FC III + “asthma” worse
- ECG – Atrial fibrillation with RVR
- Echo – LV Dilated, LVEF < 25% → “**something in the LA**”



Case

TEE requested

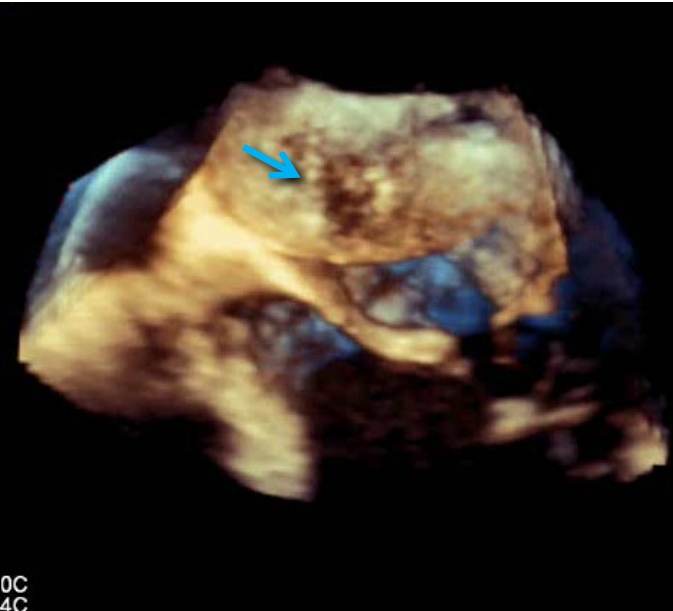
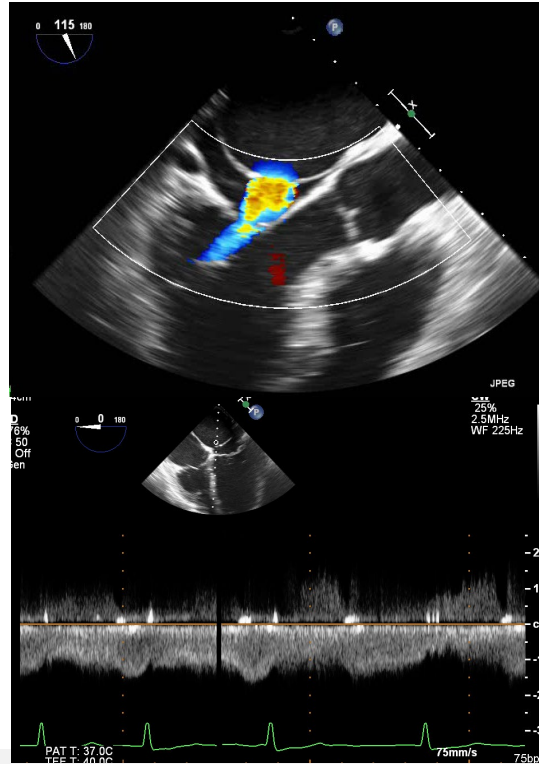
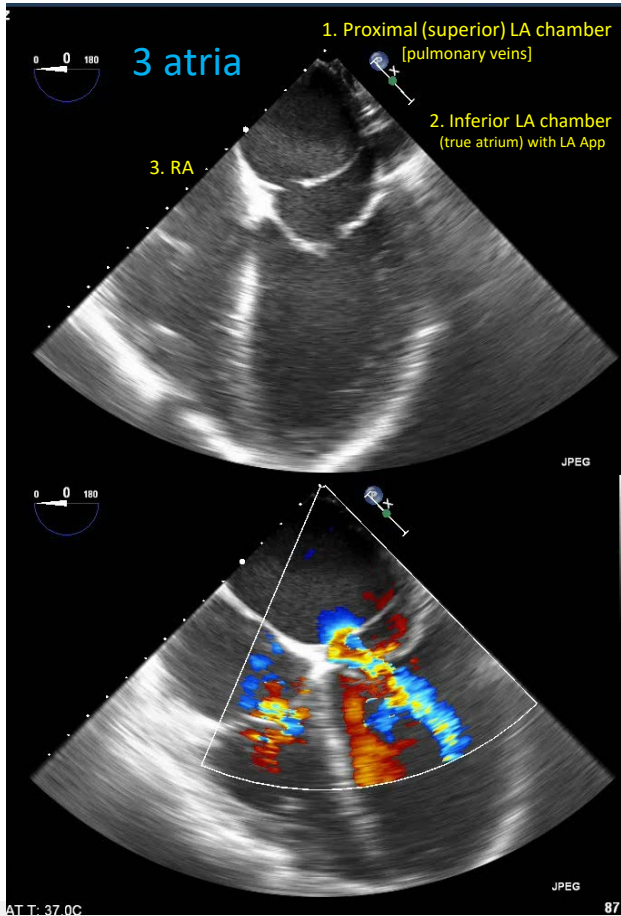
“something in the LA” in a. fib, RVR – lifelong exertional “asthma”



Severely reduced LVEF – months of a. fib –
tachycardiomyopathy.



Case

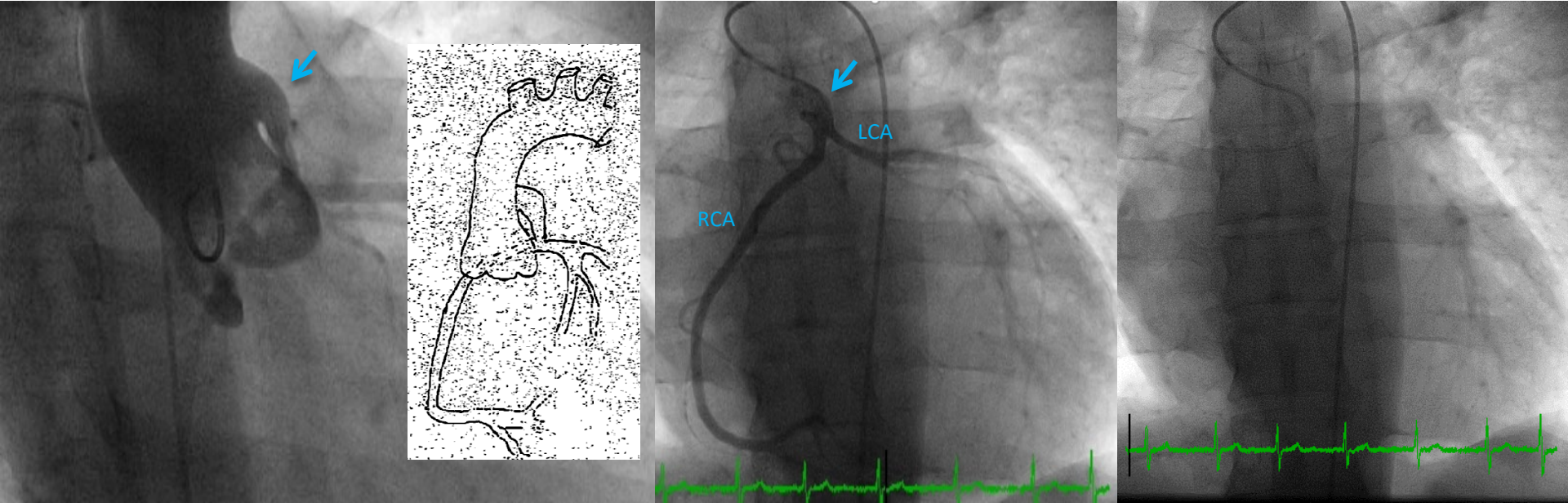


Membrane Mean gradient = 9 mm Hg
(HR 75 bpm)

Obstructive LA Cor Triatriatum Sinistrum (left sided)



Case



Single Coronary artery – arises high above L. Cor Cusp, RCA from prox Left Main



Case

Obstructive (LA) Cor Triatriatum Sinistrum

+

Single Coronary artery

?

expected or unexpected



Case - 1

Obstructive (LA) Cor Triatriatum Sinistrum

+

Single Coronary artery

RARE esp. in adults

Limited data

? secundum ASD
anomalous pulm v. return
Bicuspid aortic valve
Double outlet RV
Coarctation of the aorta
Persistent L. SVC
VSD
AV canal



RARE < .01%

40% - *associated conditions*

Truncus arteriosus

Tetralogy of Fallot

TGA

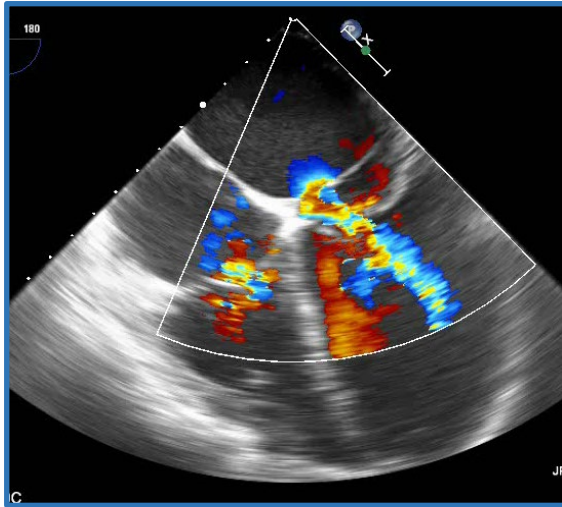
Roberts WC. Major anomalies of coronary arterial origin seen in adulthood. *Am. Heart. J.* 111, 941-963 (1986)

expected or ***unexpected***

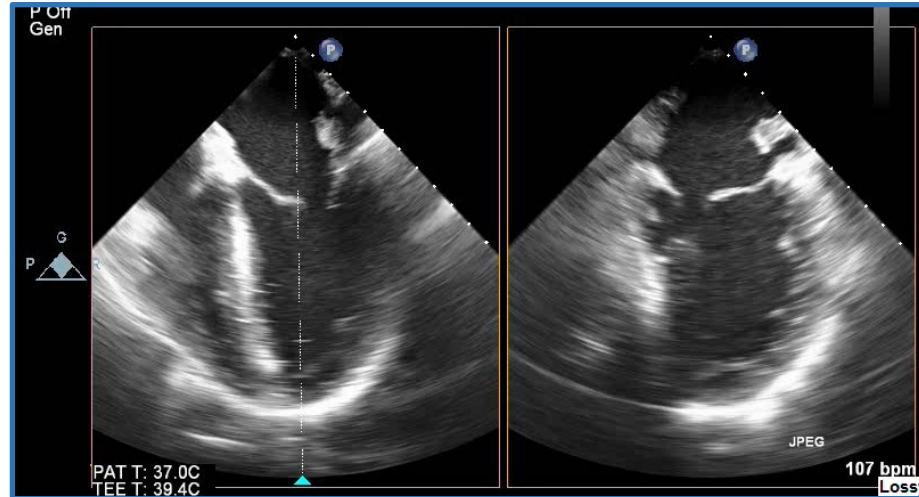


Case

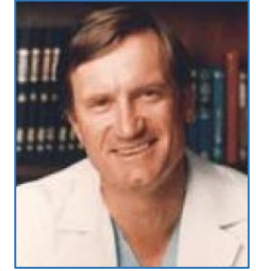
Obstructive LA Cor Triatriatum Sinistrum (left sided)



Pre op (age 37)



Intraoperative TEE post membrane resection.



David Ott, MD
Houston

- THI professional staff 36 yrs
- Surgeon in Chief, Texas Heart
Institute – succeeding Dr.
Denton A. Cooley.
- DeBakey & Cooley mentee
- 1978 – 2015 > 20,000 Cardiac
repairs, St. Luke's and TCH
- Many hundreds of congenital
hearts – “I’ve never seen this in
an adult, thanks for the
referral.”

Course: sinus rhythm post op – LVEF normalized with rate control, and ACE-I
“asthma resolved” 6 years later (age 43) playing volley ball – no SOB.

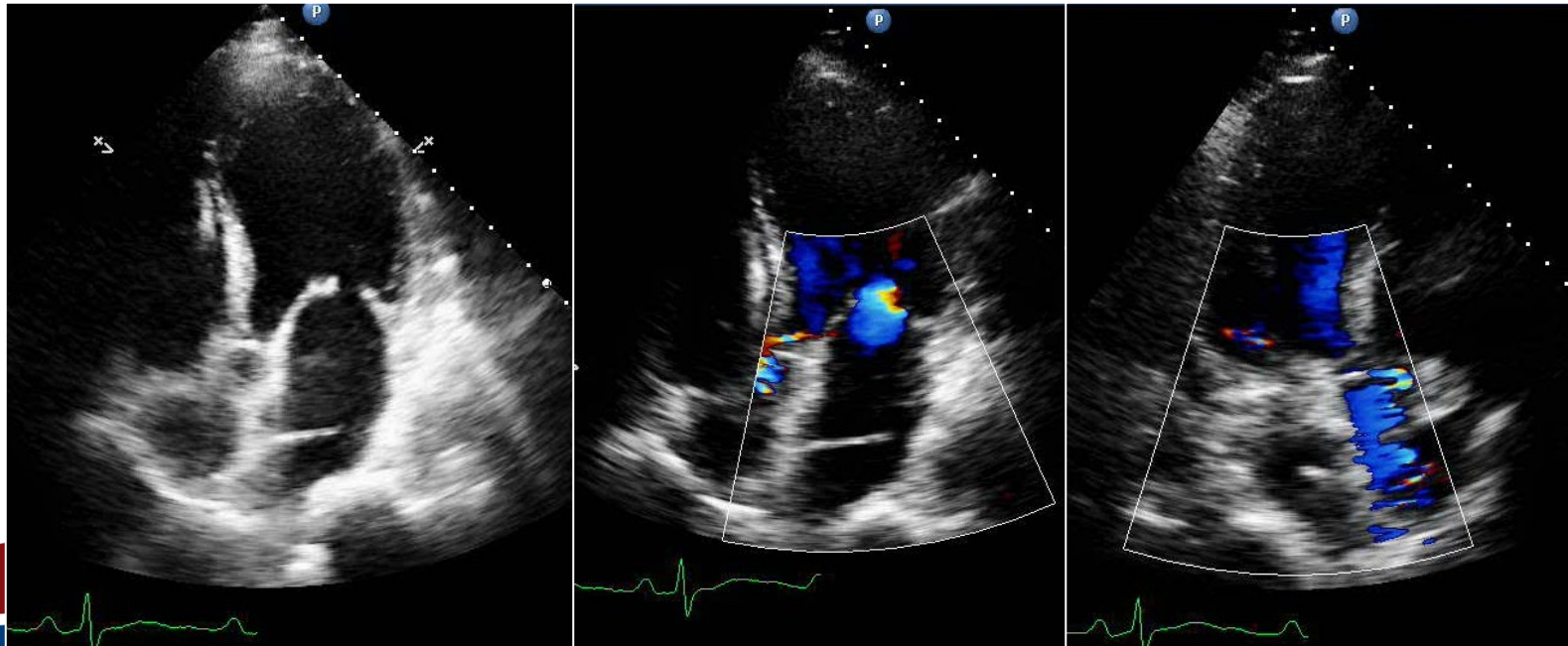


Bonus Case

Non obstructive (LA) Cor Triatriatum Sinistrum

uncommon, asymptomatic, clinically unrecognized -
incidental findings on imaging studies

forme fruste



Forme fruste: the incomplete phenotypic expression of a condition, such that it does not meet the usual diagnostic criteria

