

PMH: HTN

Meds:

**Amlodipine** 

## 8/30/23 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Ayesha Ghoto (@AyeshaGhoto) Case Discussants: Jack Penner (@) and Sharmin Shekarchian (@Sharminzi)

CC: 48 yo female with a syncopal episode

**HPI**: she had a syncopal episode when she was working at home and stayed unconscious for some time. She has had exertional dyspnea for the past three months. Denied jerking or tongue biting.

Fam Hx: HTN, DM

alcohol occasionally

Soc Hx: Non-smoker, drinks

**Health-Related Behaviors:** 

Vitals: HR: 75 BP: 110/70 RR: SpO2 99% in RA

Exam

Gen: awake and alert, moist mucous membranes

**HEENT:** 

CV: normal S1 and S2; 2/6 diastolic murmur, no JVD

Pulm: clear to auscultation

Abd:

**Neuro:** unremarkable **Extremities/skin:** no edema

Notable Labs & Imaging:

**Hematology:** 

WBC: 10 Hgb: 11 Plt: 450

Chemistry:

Na: 143 K: 3.9 Cl: 89 BUN: 18 Cr:1.06 glucose:170 Ca:9.2 Mag: 2.2

AST: nl ALT: nlAlk-P: 1.04 Albumin: 4.0

**GFR 28** 

Troponin 23 (normal)

proBNP: 250

Imaging:

EKG: normal sinus rhythm, right axis deviation

CXR: unremarkable

Echocardiogram: LA mass measuring 4x2 cm attached to the interventricular septum with movement along the mitral valve.

Dx: Cardiac myxoma obstructing blood flow through mitral valve.

**Problem Representation**: 48 yo female presenting with syncope, exertional dyspnea, and a 2/6 diastolic murmur on physical exam. Echo showed LA mass obstructing blood flow through MV.

## Teaching Points (Mark):

CC: Syncope episode

-Before you enter the world of syncope, consider the ddx of transient loss of consciousness

-Is this syncope or a syncope mimic?

-4S's: Syncope, stroke/TIA, sugar, seizure

-All have distinct signatures (prodrome with vagal, positional with orthostasis, etc) → history is

key!

-Syncope: reflex, orthostasis, cardiac (structural vs arrhythmia)

-Also consider autonomic dysfunction 2/2 medications (Alpha blockers, anti-hypertensives)/

DM/PD, another consideration is low volume state.

-Each bucket of syncope has distinct features on history

-Dyspnea increases the likelihood of cardiac syncope

-Features of cardiac syncope: host vs syndrome

Host:

1. Hx of CAD/CHF

2. Hx of conduction abnormalities

3. Family hx of sudden cardiac death

Syndrome:

4. Exertional dyspnea

Supine syncope

Palpitations

on telemetry and get an ECG

-Now the exam...
-Normal heart rate does not rule out arrhythmia, many are intermittent, therefore place patient

-Knowing a patient's baseline BP is important - could be relative hypotension/hypertension w/ a

"normal BP"

-Diastolic murmurs: always pathologic, stenosis (tricuspid or mitral) or regurg (pulmonic or aortic)

-Now the labs....

-BNP: original studies were used in ED to determine if patient's dyspnea is from HF → so heart is on the hook now w/ elevated BNP

-PE is a underappreciated cause of syncope in patients admitted for syncope (17% in 1 study!)

-TTE showed a mass near the mitral valve concerning for atrial myxoma

-Atrial myxoma causing physiology similar to MS

Allergies: none

none