

04/23/24 POCUS Morning Report with @CPSolvers

Case Presenter: Dr. Renee Dversdal (@DRsonosRD) Case Discussants: Yazmin (@minheredia), Ibrahim (@IbrahimOmer) and Ravi (@rav7ks)

CC: 60 yo F acute on chronic SOB with cough.

HPI: Normally can walk one block, but for the last 3 days, she has been dyspneic doing dishes and going to the bathroom.

She also had cough with vellow sputum for the past 5 days. Stable LE edema, no chest pain, no fever, no other complaint.

Patient skipped her diuretics due to personal trip.

PMH:

40-45)

COPD. Ischemic cardiomyopat

hy, CAD, past EF 40% (6m ago), morbid obesity (BMI

Meds: LABA. BB. statin. furosemide 40mg, aspirin Soc Hx: Health-Related Behaviors: Allergies: All above non-contributory

Fam Hx:

Exam: Gen:

CV: no murmur, no S3, no JVP,

Pulm: distant breath sounds, crackles on bases, mild expiratory wheeze Extremities/skin: 1+ bilateral LL edema below the knee

Vitals: T: afebrile HR: 95 BP: 148/88 RR: 20 SatO2: 89% RA (Baseline 92%)

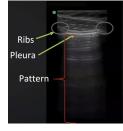
Notable Labs & Imaging: Hematology: unremarkable Chemistry: unremarkable Troponin: neg

Imaging:

CXR: Suboptimal exam due to body habitus Lung US: Multiple B-lines.



Dx: Acute on chronic systolic Heart Failure



Educational image, not related to current case



Patient was treated with diuretics

Educational image, not related to current case Problem Representation: 60 yo F with PMH of COPD, ICM, CAD, HFrEF and morbid obesity who present with progressive SOB. She was hypoxemic and OCUS showed signs of pulmonary congestion. She was found to have acute on chronic systolic HF.

Teaching Points (Vijay):

-Dyspnea: Cardiopulmonary favored by acute h/o + edema Chest wall, Lung(airway, parenchyma, alveoli, pleura, vascular), Heart(pericardium, myocardium, endocardium)

- Exacerbation of COPD, HF - Triggers as possibilities (FAILURE: meds, anemia, infection/ischemia, lifestyle, Upregulated cardiac(Thyroid), Renal failure, Emboli)

B: sponge, air + Higher density, **Bottom**: >3/rib space = **Pathologic**

Exam: Fluid status, HJR **Low SO2:** Compare with baseline. New = _Diffusion, Perfusion,

Ventilation, Need for LTOT Lung POCUS: Rib, Pleura, Pattern

A: Air - Across - Horizontal (Reverberation artifact)

-Physiologic / Free Air

-Non-A Non-B = Off Axis(Perpendicular) -Slide, Rock, Fan

-Diffuse: >2 zones = Systemic

-Focal: Contusion, Pneumonia, infarct, Malignancy -Min depth: 12cm (Confirm B lines)

CLUE: Cardiovascular Limited Ultrasound Exam

"Quick Look" signs in same **specific order**(LV→ RA) PLAX(LAE, LV dysfn)-->B-lines→Effusion→RV function, IVC

IVC: Not always Fluid Status! No US finding makes a diagnosis-Look at all pieces

CARD: Common things, Atypical presentations, Rare are cool, Don't miss diagnosis