

Hospital Medicine Point of Care Ultrasound (HM POCUS) Program

# POCUS Case Conference

Gregory Mints 2/21/2019

### Case I

CC: 85 yo man w/ SOB & Cough and choking while eating

HPI: OSA, A Fib, CVA and recurrent aspirations

#### Exam:

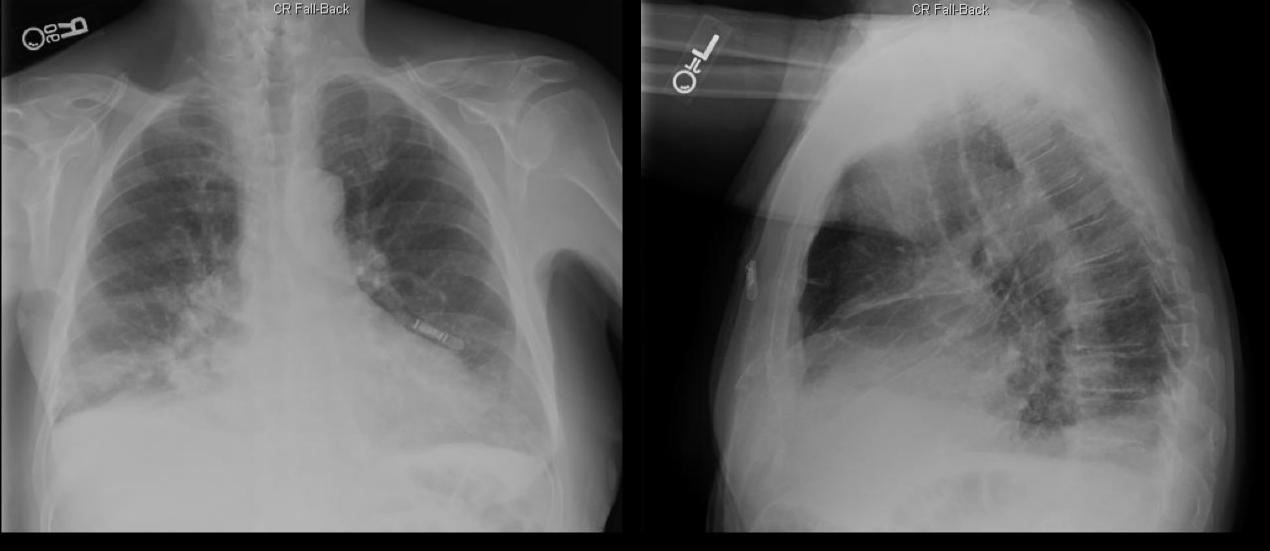
- BP 122/86
- P 110
- RR 24
- Sat=88% on RA, 94% on 2L

### Exam

- JVP 8-10cm, +HJR;
- Lungs w/ b/l crackles;
- Irregular HR, II/VI systolic murmur
- No LE edema

### Labs

- Cr=0.8
- WBC=10
- BNP=521
- procalcitonin 0.3



#### Official CXR read:

New R basilar consolidation and small R pleural effusion Unchanged left basilar atelectasis or consolidation Implantable loop recorder

### Case I

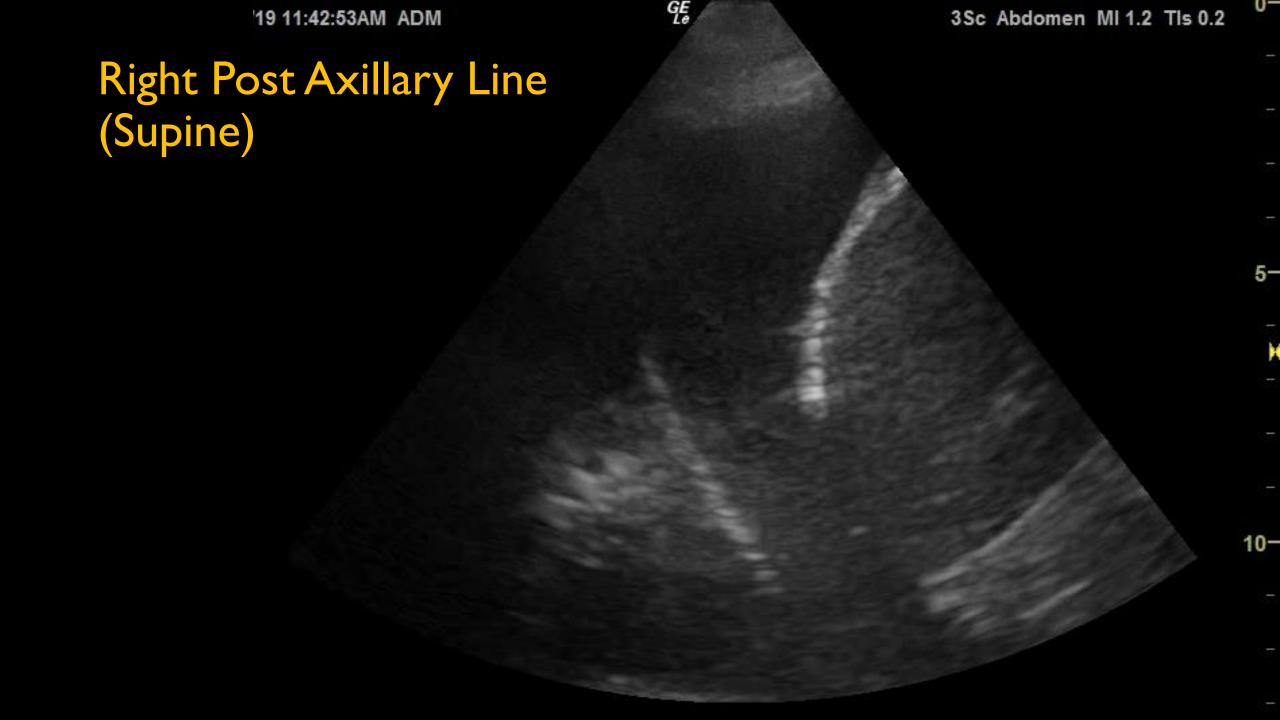
Admission diagnosis: Recurrent aspiration PNA

Tx: IVF and antibiotics

### POCUS

### Anterior Chest Wall (mid-clavicular line)

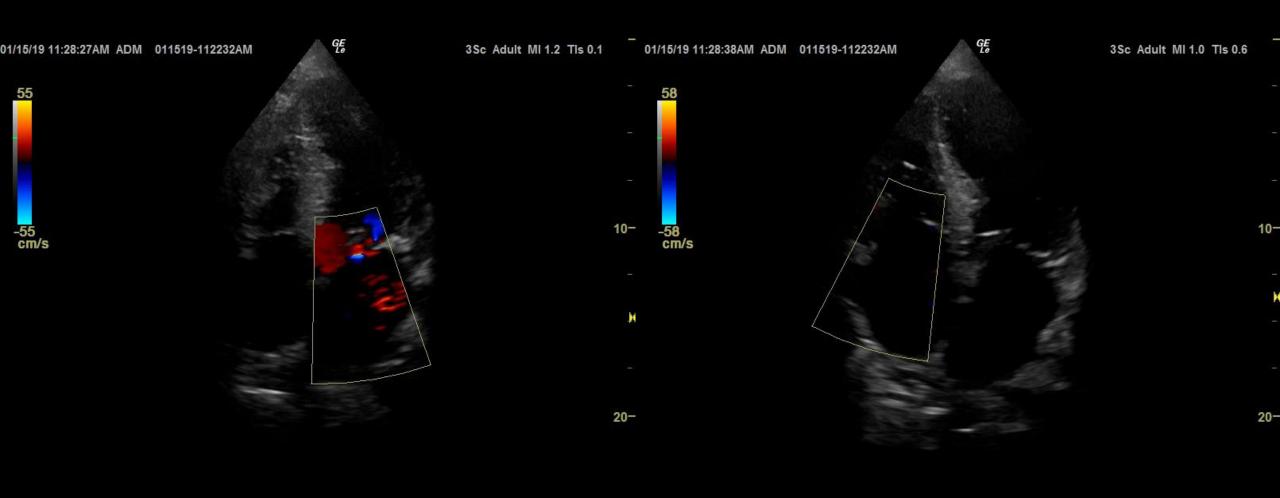


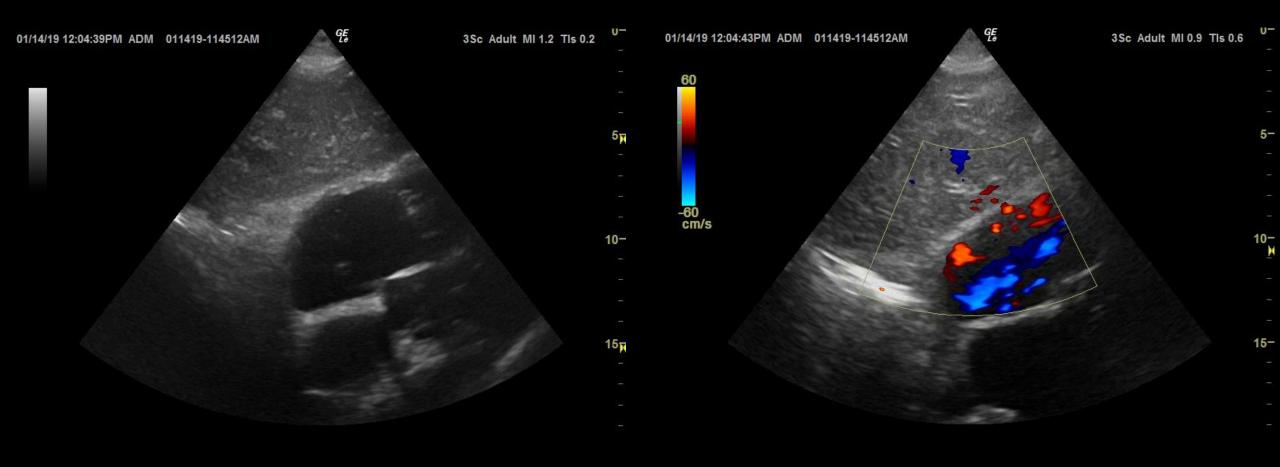




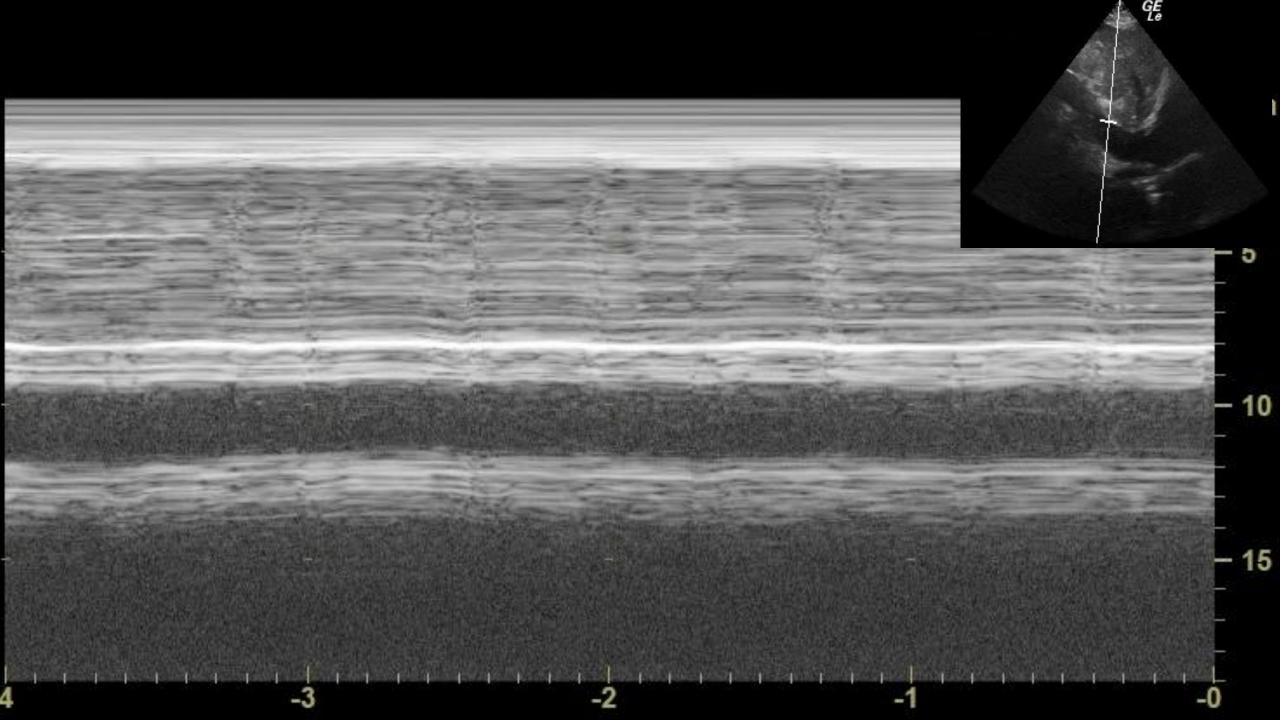


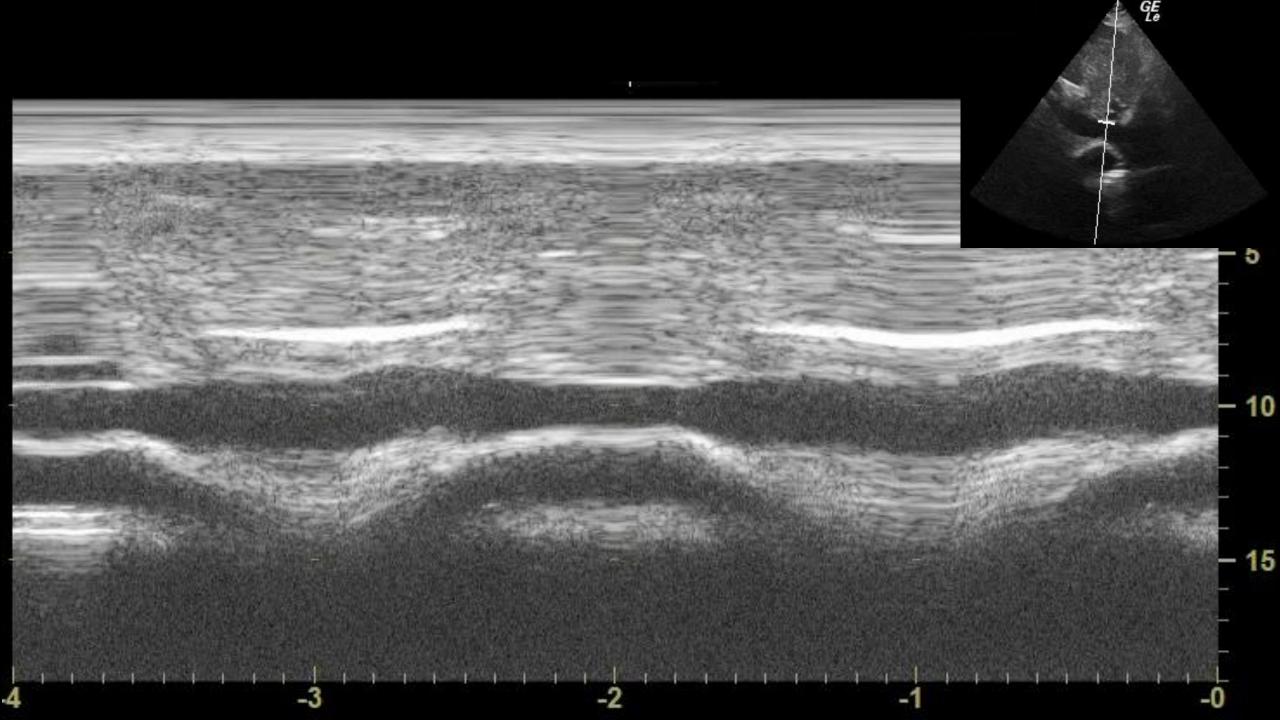




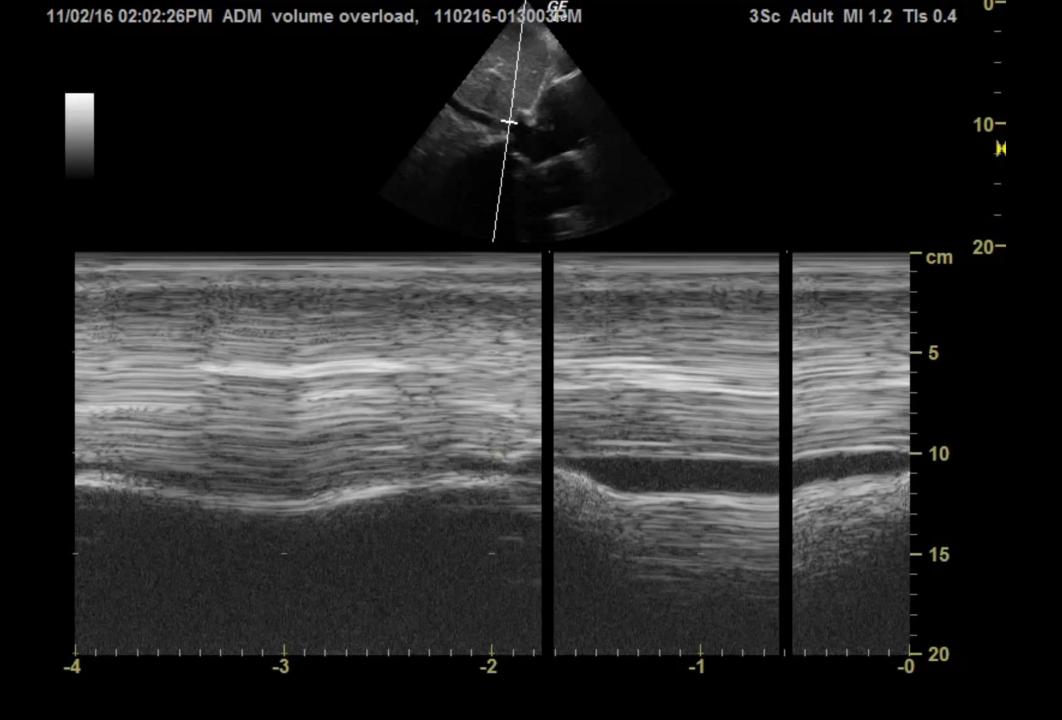








### Case 2



### Breathing in CHF

- Cheyne-Stokes respiration (CSR): a form of disordered breathing
- Can be associated with sleep or occur during wakefulness
- CSR is seen in up to 40% of HFrEF pts
- Directly related to LV "badness" and is a risk factor for mortality
- Likely a marker, not a cause of excess mortality

## The NEW ENGLAND JOURNAL of MEDICINE

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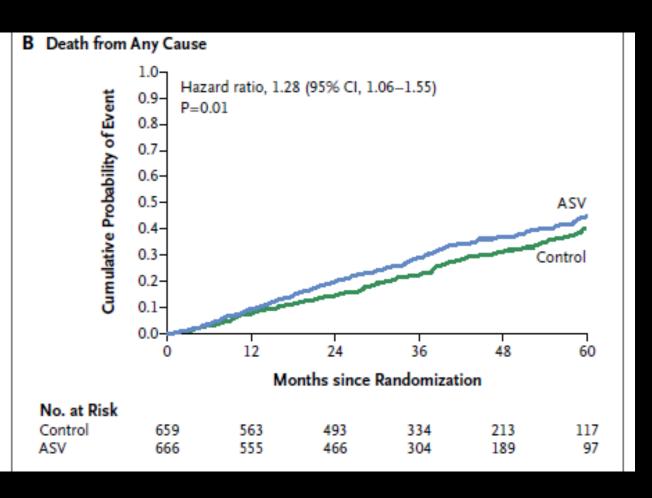
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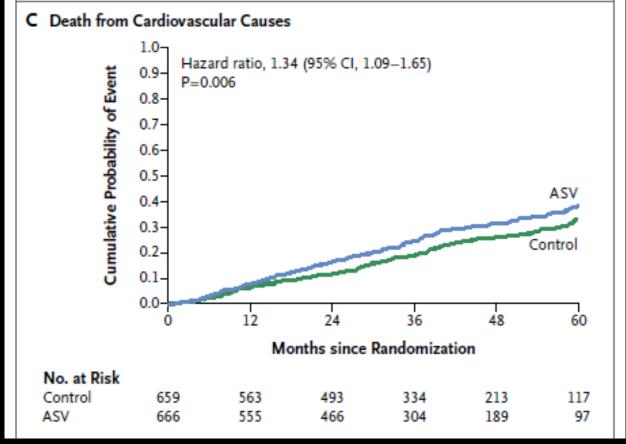
VOL. 373 NO. 12

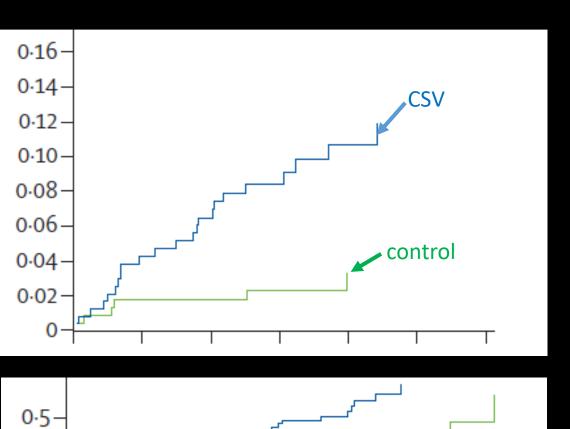
### Adaptive Servo-Ventilation for Central Sleep Apnea in Systolic Heart Failure

Martin R. Cowie, M.D., Holger Woehrle, M.D., Karl Wegscheider, Ph.D., Christiane Angermann, M.D., Marie-Pia d'Ortho, M.D., Ph.D., Erland Erdmann, M.D., Patrick Levy, M.D., Ph.D., Anita K. Simonds, M.D., Virend K. Somers, M.D., Ph.D., Faiez Zannad, M.D., Ph.D., and Helmut Teschler, M.D.

1,325 pts with LV EF ≤ 45% and central apnea (apnea—hypopnea index (AHI) ≥ 15/h)
Randomized to standard of care or Standard of care + ASV







0.4-

0.3-

0.2

0.1

### EF < 30%

Cardiovascular death w/o previous hospital admission for worsening CHF or life-saving event

Hospital admission for worsening CHF

Observational studies (1) and case reports:

Treatment of CHF parallels resolution of CSR