

SGLT-2 INHIBITORS & GLP-1 AGONISTS: BENDING THE CURVE IN CARDIOVASCULAR RISK AND DISEASE TRAJECTORY

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Case Presentation: Parrykumar Mendapara MD

BACKGROUND

68 y/o Female Height: 5' o" Weight: 299 lbs BMI: 56

HPI: Presents with worsening exertional dyspnea and decreased effort capacity

PMHx: hypertension, hyperlipidemia, diabetes, parosymal atrial fibrillation, obstructive sleep apnea, COPD

Social Hx: former smoker, no alcohol use or drug use

Functional status: NYHA class II to class III, ambulates

QUESTION:

Which patient phenotypes would derive the greatest benefit from SGLT-2 inhibitors and GLP-1 agonists?

- a. Diabetes
- b. Weight
- c. NYHA Class II III heart failure symptoms
- d. All of the Above

MEDICATIONS

March 2023

Aspirin 81 mg daily

Warfarin

Metformin 500 mg daily

Prednisone 10 mg daily

Ramipril 2.5 mg daily

Simvastatin 20 mg daily

Furosemide 20 mg daily

Ozempic 1 mg/dose weekly

August 2024 Regimen

Entresto 49-51 mg BID

Eliquis 5 mg BID

Metformin 500 mg BID

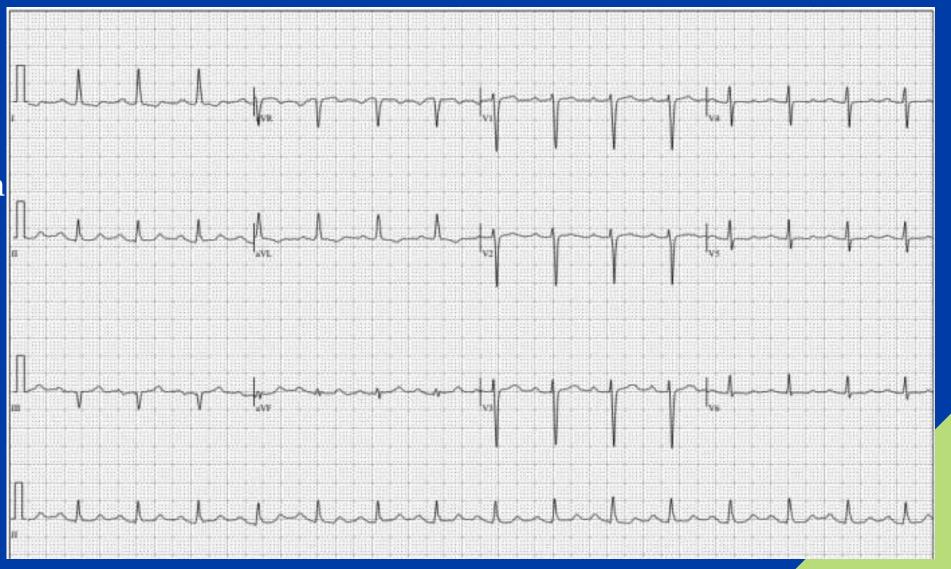
Ozempic 2 mg/dose weekly

Prednisone 10 mg daily

Simvastatin 20 mg daily

Furosemide 20 mg daily

NSR 92 bpm
PR 210 msec
QRSD 100 msec
Lateral repolarization
abnormalities

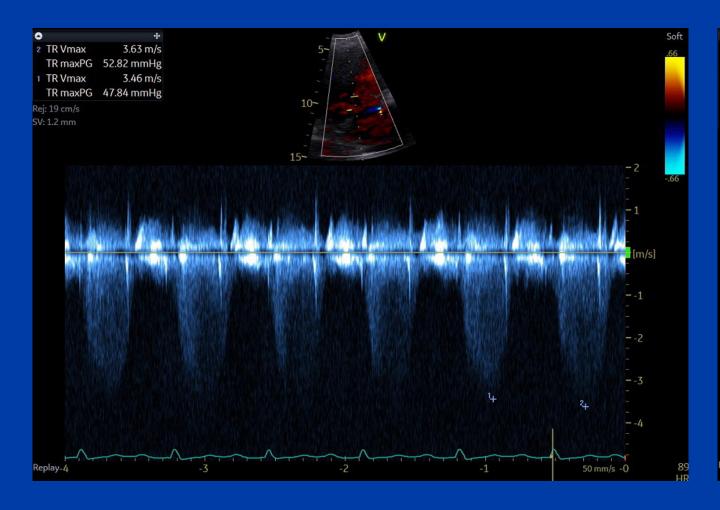


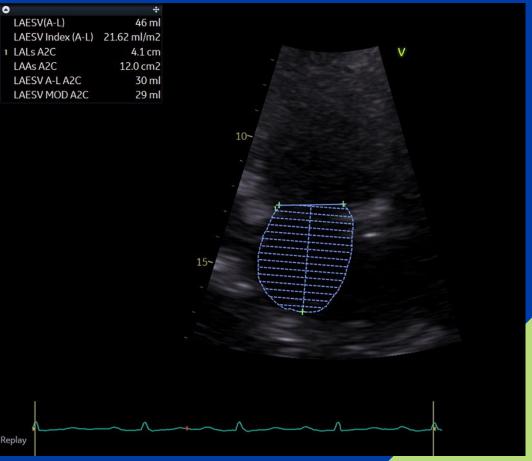
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RELEVANT LABS / IMAGING

LDL 40 | HDL 72 | TG 107 | Serum Cr 1.3 | HgbA1C 6.8
BNP 2612

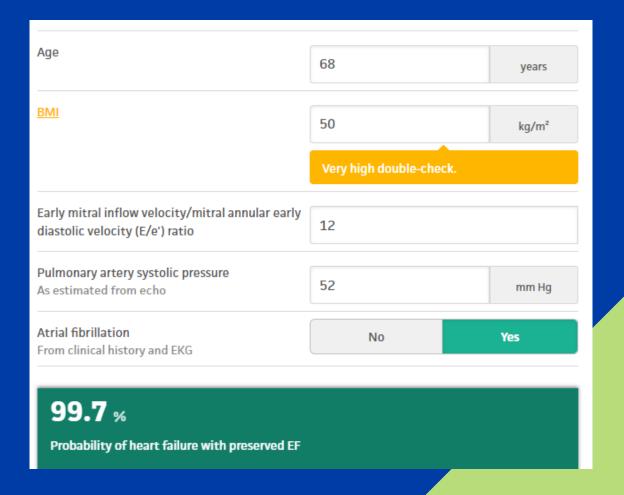
- Echo (2024):
 - o LVEF 60%, LVEDD 5.3 cm, E/e' avg: 12
 - Estimated PASP 52
 - Normal RV function

Left heart cath (2022): no significant coronary disease Right heart cath (2022):

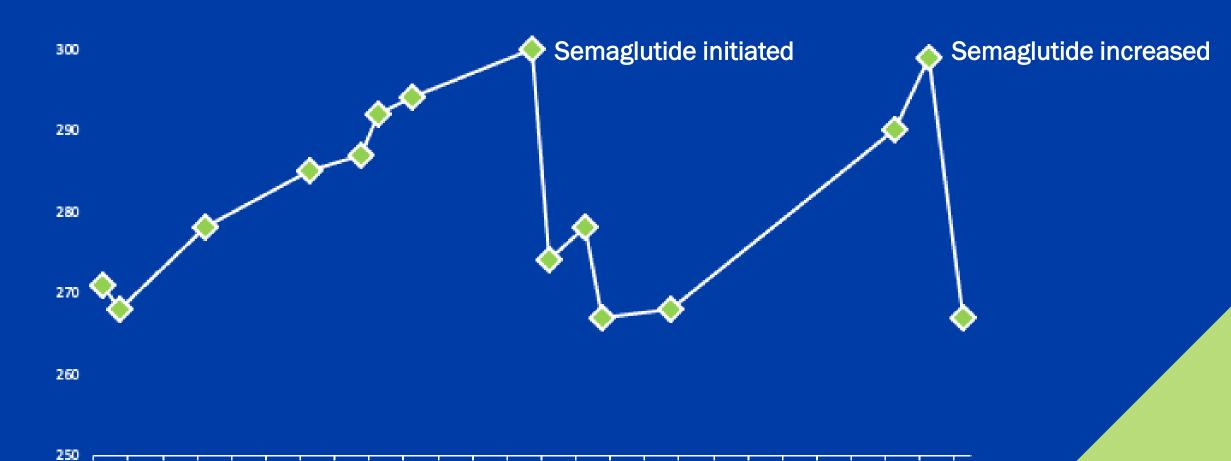
- RA pressure 11
- o PAP 46/24 (mean 32)

H2FPEF SCORE

	Clinical Variable	Values	Points
H ₂	Heavy	Body mass index > 30 kg/m ²	2
	Hypertensive	2 or more antihypertensive medicines	1
F	Atrial Fibrillation	Paroxysmal or Persistent	3
Р	Pulmonary Hypertension	Doppler Echocardiographic estimated Pulmonary Artery Systolic Pressure > 35 mmHg	1
Е	Elder	Age > 60 years	1
F	Filling Pressure	Doppler Echocardiographic E/e' > 9	1
H ₂ FPEF score			Sum (0 - 9)
Total P		2 3 4 5 6 7	8 9
Probab	oility of HFpEF 0.2 0.	3 0.4 0.5 0.6 0.7 0.8 0.9 0.95	



WEIGHT TREND



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QUESTION:

Optimal Guideline Directed Medical Therapy would

NOT include:

- a. Mineralocorticoid Receptor Antagonist
- b. SGLT2 inhibitors
- c. Beta-Blocker
- d. Angiotensin Recptor-Neprolysin Inhibitor

THANK YOU



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