

Objectives

1. Apply the 2022 AHA/ACC/HFSA heart failure (HF) guideline recommendations for Heart Failure with Reduced Ejection Fraction (HFrEF) that advise patients should receive the four "pillars of therapy" including beta blockers, renin-angiotensin-aldosterone system inhibitors (ACEi/ARB/ARNI), mineralocorticoid receptor antagonists (MRA), and sodium-glucose co-transporter 2 inhibitors (SGLT2i) at appropriate doses into clinical practice

2. Formulate a collaborative practice agreement and create a pharmacist-led guideline directed medical therapy (GDMT) program for HFrEF in ambulatory care

3. Use process and outcomes measures to demonstrate pharmacist value in a pharmacist-led medication adjusted to target clinic for HFrEF

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Epidemiology

• 6.2 millions adults (2.4% of population) in U.S. with HF

• 809,000 HF hospitalizations annually
• 1,932,000 outpatient office visits with HF as primary diagnosis annually
• \$30.7 billion in costs related to HF

• 1-year mortality of 29%
• 5-year mortality of 50%

Mortality

4

Subtypes of Heart Failure

HFrEF

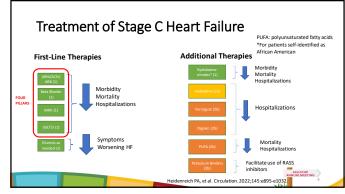
HFmrEF

HFmrEF

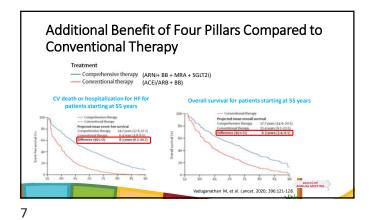
HFpEF

HFmrEF

HFmrE



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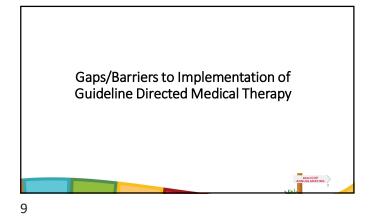


Polling Question #1

Most patients with heart failure are taking a medication from each of the four classes of guideline directed medical therapy to help treat their disease.

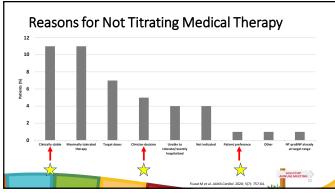
A. True
B. False

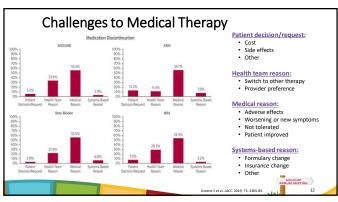
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What is the Quality Gap? 90% 80% **CHAMP-HF Registry** 70% Only 22.1% prescribed ACEi/ARB/ARNI, 60% BB, and MRA 50% Only 1.1% prescribed target doses of all 30% classes 20% <2% of patients had a documented contraindication to any specific therapy Without Contraindication and Not Treated 2317 With Contraindication

10





11 12

What Are the Reasons for Lack of Treatment? • Lack of provider's time/appointment availability • Medication side effects/tolerability/pill burden ★ • HF regimen complexity • Unfavorable prognostic factors (severe NYHA functional class, age, renal insufficiency, lower systolic BP) ★ • Lack of financial assistance/cost ★ • Lack of trust (Patient hesitation to try and titrate new medications) • Transitions in care between different care settings

Polling Question #2

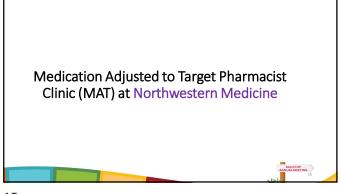
56 y/o female in clinic with a history of diabetes type II, hypertension and newly diagnosed Stage C NYHA class II heart failure with reduced ejection fraction (EF 27%). Her medications include lisinopril 2.5mg daily, amlodipine 5mg daily, metoprolol tartrate 25mg twice daily, metformin 1,000mg twice daily. BP: 143/78 mmHg, HR 79 bmp. Recent BMP showed a potassium level of 4.2 mmol/L and a serum creatinine of 0.92 mg/dL (at baseline).

What is a reasonable next step in optimization of therapy?

A. Change metoprolol tartrate to metoprolol succinate 25mg XL daily
B. Stop lisinopril x 36 hours. Add sacubitril/valsartan(24mg/26mg) 1 tab twice daily
C. Increase amlodipine to 10mg daily
D. Ask her to work on lifestyle modifications (low sodium diet) first and return to clinic in 3 months

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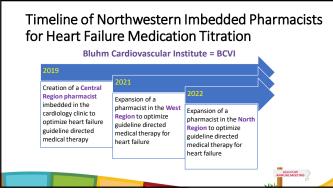


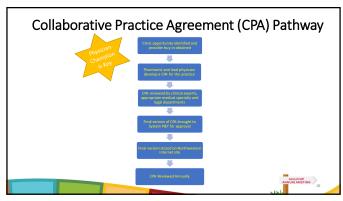
Northwestern Medicine Hospitals and Other Key Locations

13 Hospitals

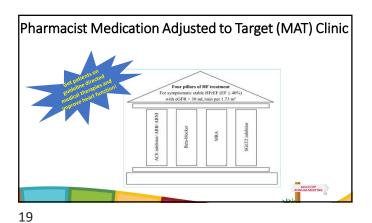
- And & Robert Luric Children's Hospital of Chicago
- Central Durlage Hospital
- Plant Hospital
- Huntley Hospital
- Kishwaukee Hospital
- Marianjo Rehabilitation
- Hospital
- Morthwestern Memorial
- Hospital
- Northwestern Memorial
- Hospital
- Hospital
- Hospital
- Hospital
- Hospital
- Hospi

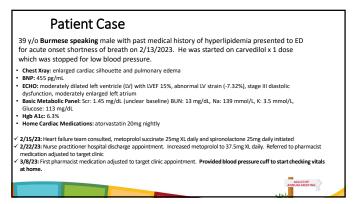
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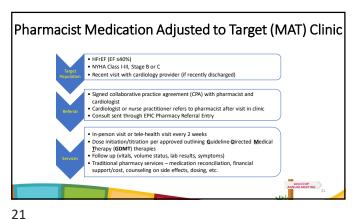


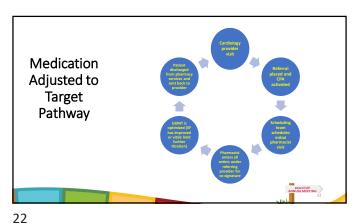


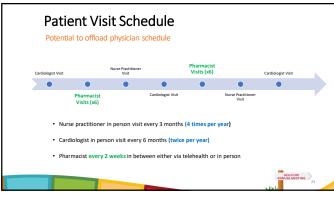
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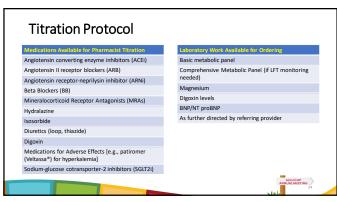


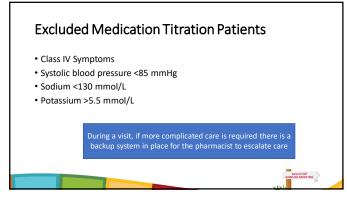


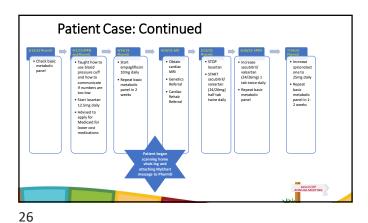


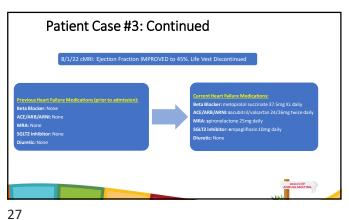












Keys to Success • Physician Champion!! • A few "wins" in the beginning • Multidisciplinary approach • PCP, Cardiologists, Advance Practice Providers, Nurses, Pharmacists • Frequent pharmacist touch points (in-between APN/MD visits) • Flexibility/hybrid scheduling Utilize patient MyChart messaging and telehealth/telephone visits

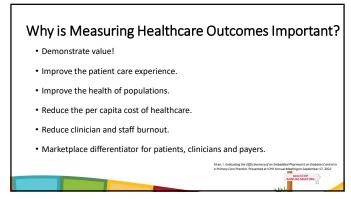
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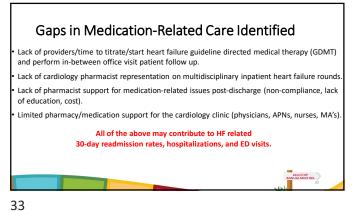
Patient Medallia® Scores for Pharmacist MAT Clinic • Medallia® is the post-visit patient satisfaction measurement tool used in the ambulatory space by NM. • 99 surveys completed by patients (Jan-July 2023) • Likelihood to recommend (LTR) score of 97.97% • The Heart Failure Pharmacist is in the top quartile of all Northwestern West Region BCVI providers!

Polling Question #3 My practice currently has EPIC reports in place to measure ambulatory pharmacist outcomes. A. Yes B. No

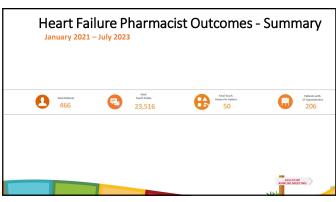
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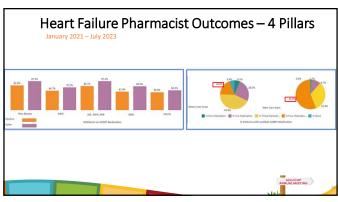


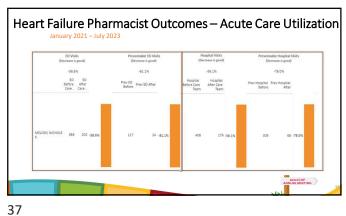


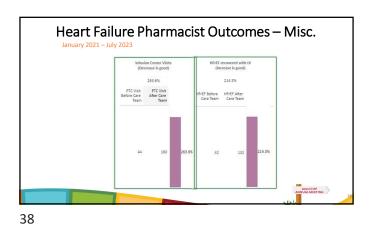




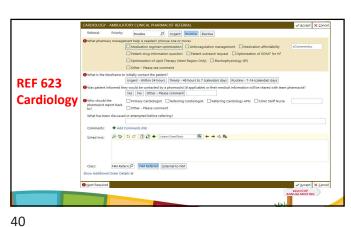


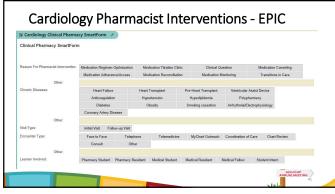


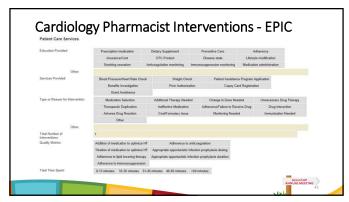










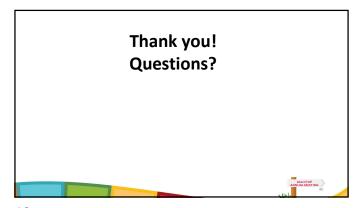


Polling Question #4 Which one of the following was not mentioned as a possible contributor to HF related 30-day readmission rates, hospitalizations, and ED visits? therapy (GDMT) and perform in-between office visit patient follow up.

- A. Lack of providers/time to titrate/start heart failure guideline directed medical
- B. Lack of patients adhering to regularly scheduled cardiology appointments.
- C. Lack of pharmacist support for medication related issues post-discharge (noncompliance, lack of education, cost).
- D. Limited pharmacy/medication support for the cardiology clinic (physicians, APNs, nurses, MA's).

43 44

Next Steps $\bullet \ \ Growth \ of ambulatory \ cardiology \ pharmacy \ program/team \ based \ on \ physician/practice \ demand.$ North Region BCVI Cardiology Pharmacist 1.0 FTE (Started 11/15/22) Medication access and affordability ✓ Major NM Social Determinants of Health (SDoH) key focus area ✓ Add pharmacy technician support Increase volume of patients assisted in clinic (brand drug & patient assistance programs, grant/foundation support etc.) Offload pharmacists and other clinicians to increase patient panel size – may decrease clinician non-productive time by 25-33% Optimize pharmacist's workflow to allow for maximum time dedicated to patient care $\bullet \ \ \text{Expansion of cardiology pharmacist's services to include other disease states}$ ✓ Dyslipidemia Limiting Factor Pharmacist billing for services limited to Level 1 Office Visit (CPT 99211)



Keys to Success

• Filters help dissect/analyze the data.

• Automation makes your life easier!

• Create reporting based on your organization's needs.

• Develop partnerships with key stakeholders.

• Data, Data, Data!