Managing Heart Failure in 2023 and Beyond -Optimizing Medical and Device Therapy

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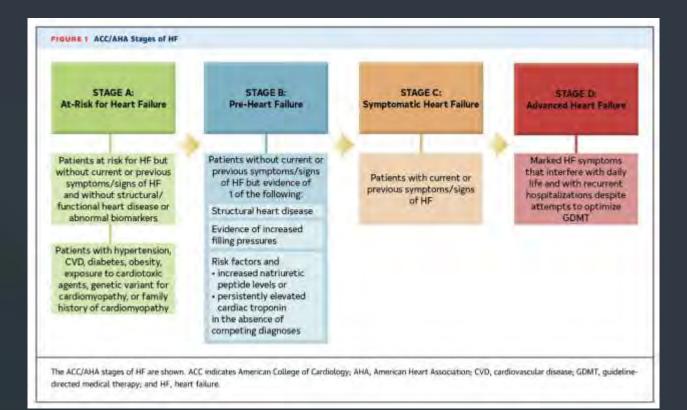
> University of Nebraska Medical Center

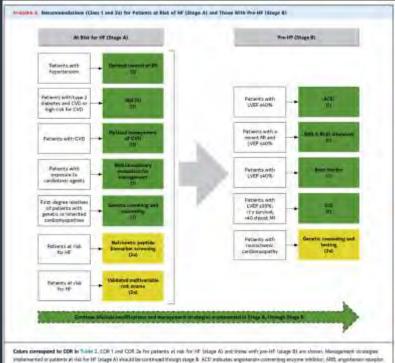


Nebraska Medicine

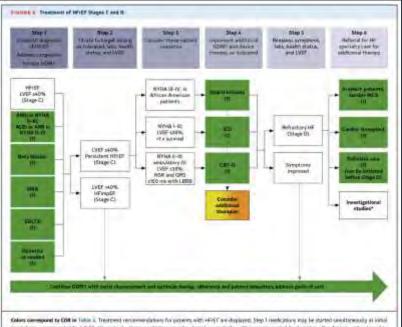
I have no disclosures

Management





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4 Pillars of GDMT



Beta Blockers

metoprolol succinate

carvedilol

bisoprolol

Mineralocorticoid <u>blockers</u>

Spironolactone

eplerenone

Ace Inhibitors / Angiotensin Receptor Antagonist



Lisinopril



Candesartan

Captopril

Valsartan

enalapril

Angiotensin Receptor/Neprilysin Inhibitor (ARNI)

PARADIGM

PIONEER

PARAGON-HF

SGLT2 Inhibitors

EMPA-REG CANVAS DELIVER

*Meta-analysis of SGLT2i studies showed a 23% RRR CV death/HFH

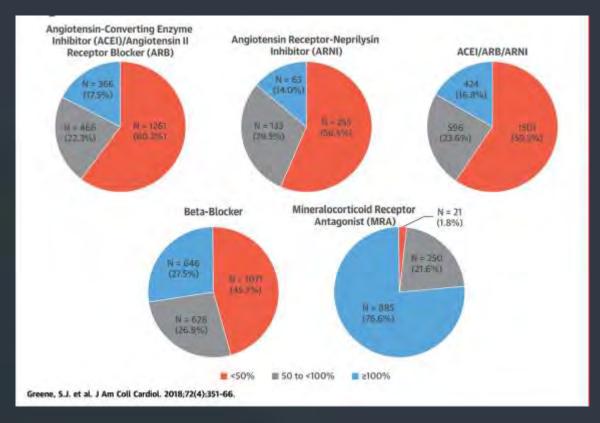
DAPA-HF EMPEROR-REDUCED

CREDENCE DAPA-CKD EMPA-KIDNEY

*Meta-analysis showed 38% RRR in kidney disease progression

"The estimated cumulative effect of these 4 medications includes a 73% relative reduction in mortality over 2 years. Similarly, compared with conventional dual therapy with a betablocker and an angiotensin-converting enzyme inhibitor or angiotensin receptor blocker, treating a 55-year-old patient with quadruple therapy is projected to extend life by > 6 years."

Green and Khan. JACC. VOL. 77, NO. 11. MARCH 23, 2021:1408-11

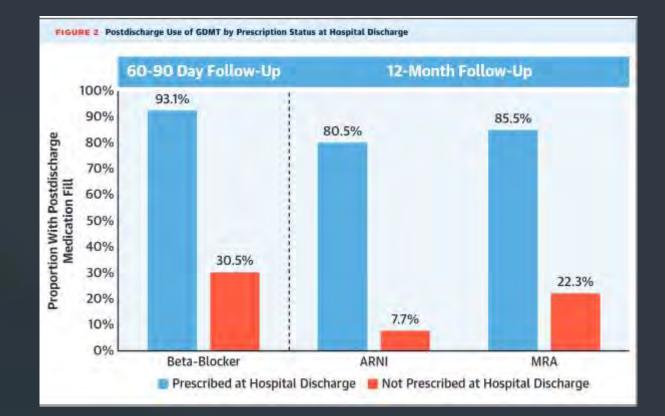


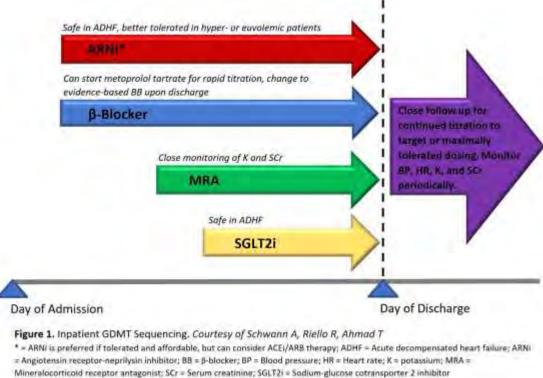
<25% received all 3 GDMT classes

When prescribed, most doses were <50% of target

Only 1% received target dose of all three classes

CHARM-HF Study





STRONG-HF

High intensity Care Group

1, 2, 3 and 6 weeks post hospital follow up seen again at 90 days and 180 days

HICG

Lower re-hospitalization for HF Lower all cause mortality Improved QOL scores

*8% ARR of primary outcomes

*Results consistent across ALL LVEF levels

*No difference in side effect profile

*At 90 days, 36.4% in control group on full dose meds vs 0.4% in standard group

COR	LOE	RECOMMENDATIONS
4	B-NR	 In patients with HFrEF requiring hospitalization, preexisting GDMT should be continued and optimized to improve outcomes, unless contraindicated (1-5).
1	B-NR	 In patients experiencing mild decrease of renal function or asymptomatic reduction of blood pressure during HF hospitalization, diuresis and other GDMT should not routinely be discontinued (6-11).
1	B-NR	 In patients with HFrEF, GDMT should be initiated during hospitalization after clinical stability is achieved (2,3,5,12-18).
a. L	B-NR	 In patients with HFrEF, if discontinuation of GDMT is necessary during hospitalization, it should be reinitiated and further optimized as soon as possible (19-22).

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So why are we hesitant to uptitrate GDMT aggressively?

Hypotension

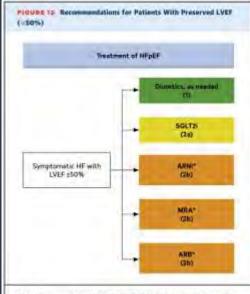
Renal dysfunction

Lack of time

Comfort level

Medication cost/coverage

HFpEF



Colors correspond to COR in Table 2. Medication recommendations for HFpEF are displayed. ARB indicates angiotensis receptor blocker; ARNs, angiotensis receptor-neorilysis inhibitor; HF, heart failure; HFpEF, heart failure with preserved ejection fraction; LVEF, left ventricular ejection fraction; MRA, mineralocorticoid receptor antagonist; and SGLT2; sodium-glacinse cotransporter-2 inhibitor. "Greater benefit in patients with LVEF closer to 50%. V

COR	LOE	RECOMMENDATIONS
4	8-8	 In patients with high-risk HF, particularly those with recurrent hospitalizations for HFrEF, referral to multidisciplinary HF disease management programs is recommended to reduce the risk of hospitalization (1-4).
1	B-NR	 In patients hospitalized with worsening HF, patient-centered discharge instructions with a clear plan for transitional care should be provided before hospital discharge (5,6).
24	8-NR	 In patients hospitalized with worsening HF, participation in systems that allow benchmarking to performance measures is reasonable to increase use of evidence-based therapy, and to improve quality of care (7-10).
2a	E-NR	4. In patients being discharged after hospitalization for worsening HF, an early follow-up, generally within 7 days of hospital discharge, is reasonable to optimize care and reduce rehospitalization (11,12).

V

GLP-1 agonists

Semaglutide approved for chronic weight loss BMI >30 BMI >27 and one major comorbidity

SELECT Reduced risk of MACE by 20%

Outpatient Monitoring Devices

Cardiomems

Champion and GUIDE-HF

Approved for Class II/III with/without hospitaliza elevated BNP

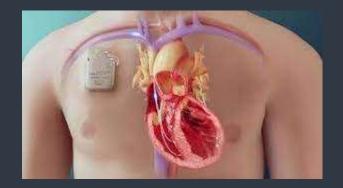
reduce hospitalization and improve symptoms



Cardiac Contractility Modulator

Approved for: NYHA III on optimal GDMT Not a CRT candidate LVEF 25-45%

Improvements in 6MWT, QOL, NYHA class





ICDs with OptiVol

Wearable defibrillators

External lung fluid monitors...

Thank You

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