Is My Heart Failure
Patient in
Trouble?...Identifyin
g Advanced Heart
Failure Patients

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## Disclosure

• None relevant

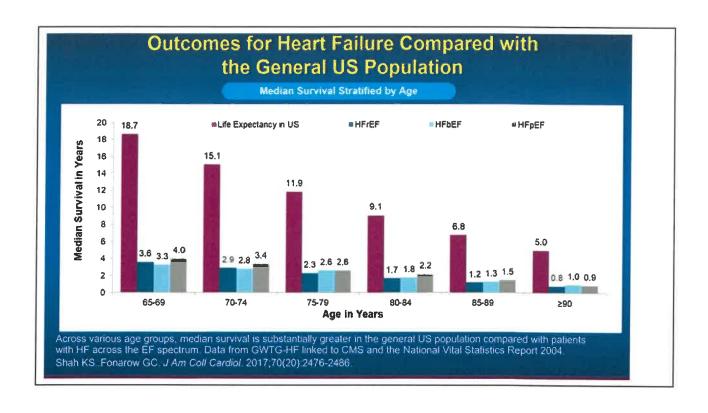
## Outline

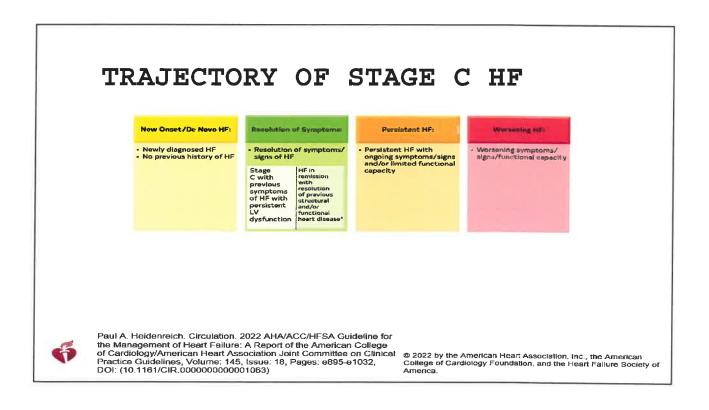
- Epidemiology
- Brief overview of current HF management
- Heart failure therapeutic inertia
- Triggers for HF Patient Referral to Advance HF team
- Conclusion

# Epidemiology

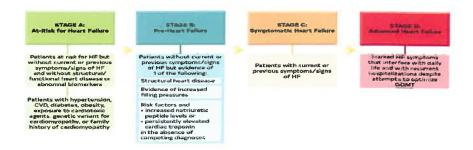
- · Common, costly and deadly
- 2024 Heart Disease and Stroke Statistics Update: A Report of US and Global Data From the AHA, which is compiled annually by the AHA, the National Institutes of Health, and other collaborators
- Heart disease and stroke claimed more lives in 2021 in the United States than all forms of cancer and chronic lower respiratory disease combined

Prevalence	Incidence	Mortality	Hospital Discharges	Cost
6,700,000	1,000,000	421,938 (50% at 5 years)	1,111,500 (3 million secondary)	\$30.7 billion





# 2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure





Paul A. Heidenreich, Circulation. 2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines, Volume: 145, Issue: 18, Pages: e895-e1032, DOI: (10.1161/CIR.0000000000001063)

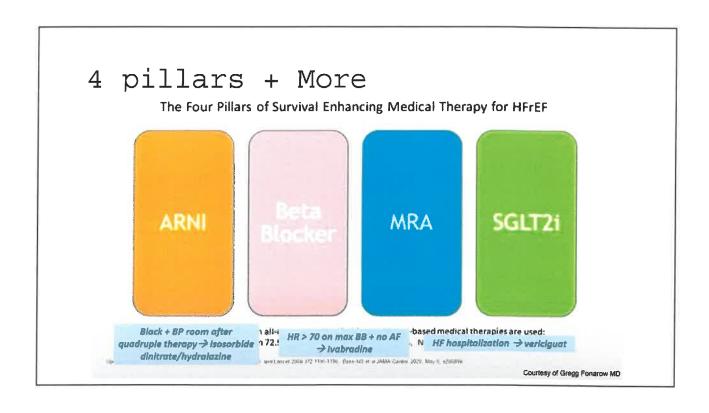
© 2022 by the American Heart Association, Inc., the American College of Cardiology Foundation, and the Heart Failure Society of America.

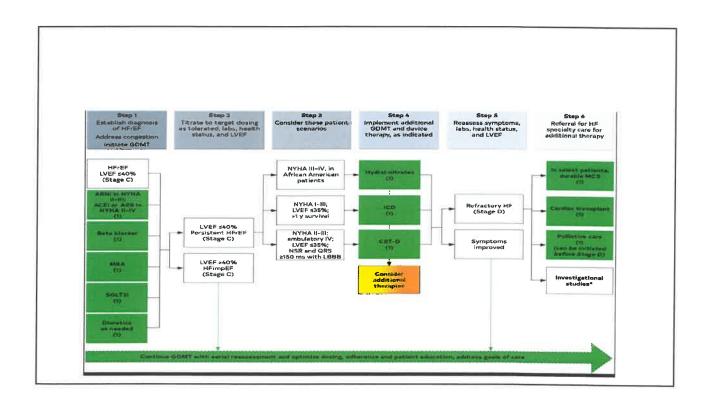
#### The Four Pillars of Survival Enhancing Medical Therapy for HFrEF

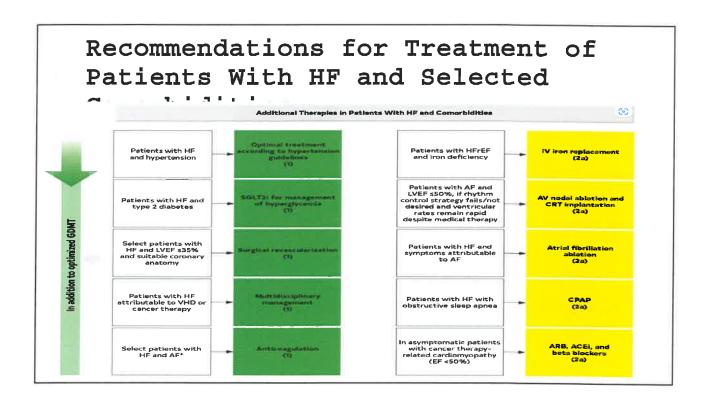


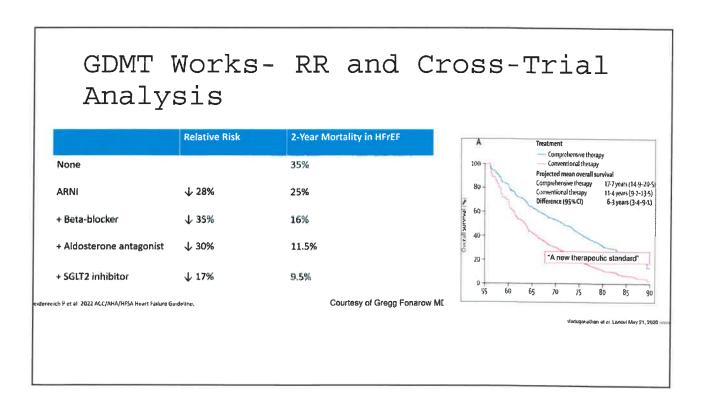
Cumulative risk reduction in all-cause mortality if all four evidence-based medical therapies are used: Relative risk reduction 72.9%, Absolute risk reduction: 25.5%. NNT = 3.9, over 24 months

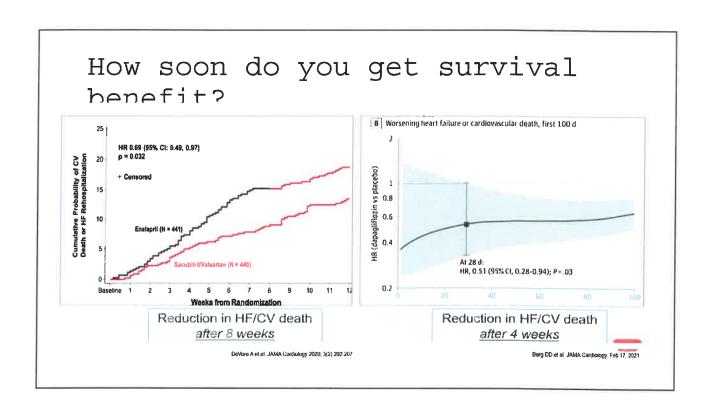
Opposition from the state And Sept (2011 to 1024 from minimum (08 15 159 159) from the state (2014 to 1022 May), e.04888

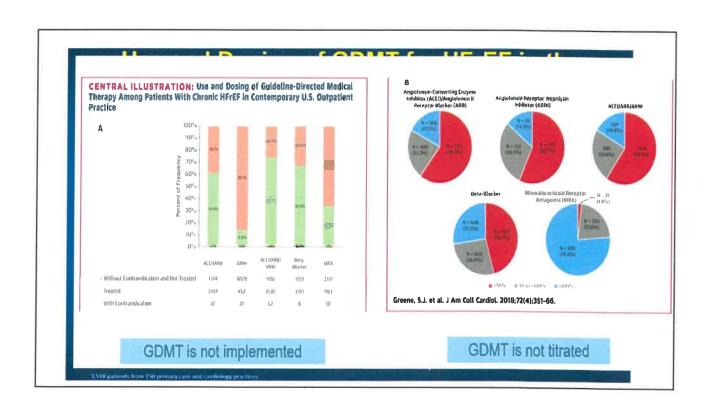


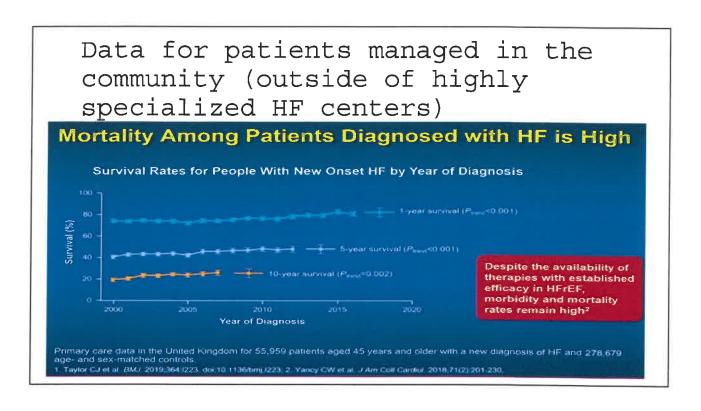


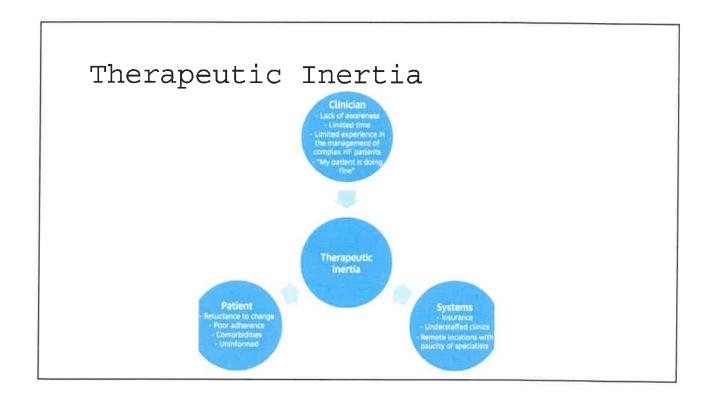






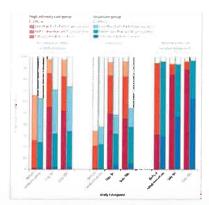






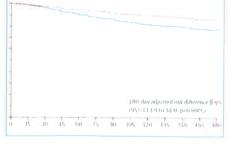
### STRONG-HF

- 1078 pts hosp with HF and not on full-dose GDMT
- · Usual care vs high-intensity
- · High-intensity care
- ARNI/ACEI/ARB, BB, MRA at 1/2 optimal dose before discharge
- Titrate to full dose by 2 w post discharge
- Visits at weeks 1, 2, 3, 6, and



More patients in high-intensity group received target GDMT dosages at 90 days:

- ARNI/ACEI/ARB: 55% vs 2%
- BB: 49% vs 4%
- MRA: 84% vs 46%



More patients in high-intensity group felt better and lived longer:

- NYHA Class I/II at 90d: 83% vs 67%
- Primary endpoint of reduction in death/HF hosp at 180d: 15% vs 23%
- Driven by HF hosp: 9.5% vs 17%

Mehazaa A. et al Lancet November

ACC Expert Consensus Triggers for HF Patient Referral to a

Specialist/Program
New onset HF (regardless of EF) for
evaluation of etiology, GD evaluation
and management of recommended therapies,
and assistance in disease management

Chronic HF with high-risk features, as development of 1 or more of the following risk factors:

Need for inotropes
Persistent NYHA III–IV symptoms of congestion or profound fatigue
SBP < 90 mm Hg or symptomatic hypotension
Cr > 1.8 mg/dL or BUN > 43 mg/dL
Onset of A fib or ventricular arrhythmias or repetitive ICD shocks
2 or more ED visits or hospitalizations for worsening HF in prior 12 months
Inability to tolerate optimally-dosed BB and/or ACEI/ARB/ ARNI and/or AA
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Clinical deterioration as indicated by worsening edema, rising biomarkers (BNP, NT-proBNP, others), or evidence of progressive

Tremodeling on imaging
High mortality risk using validated risk model for further assessment and consideration of Heart Failure
Treatment Yangy C.W JACC 2017

ACC Expert Consensus Triggers for HF Patient Referral to a

Specialist/Program
Te assist with management of GDMT,
including replacement of ACEI/ARB/ARNI for
eligible patients, or to address comorbid
conditions such as CKD or hyperkalemia,
which may complicate treatment

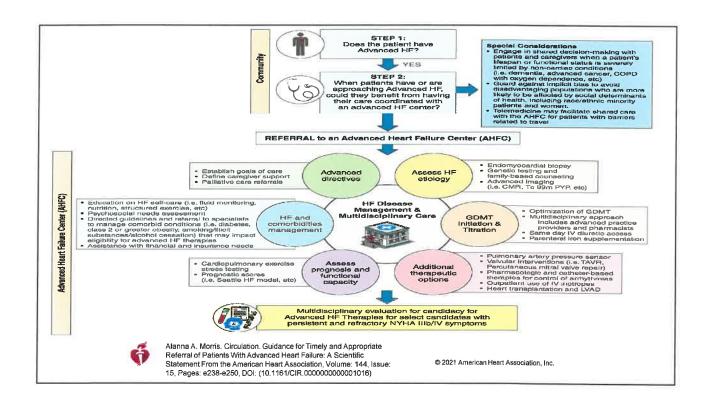
Persistently reduced LVEF <35% despite GDMT for > 3 m for appropriate consideration of device therapy

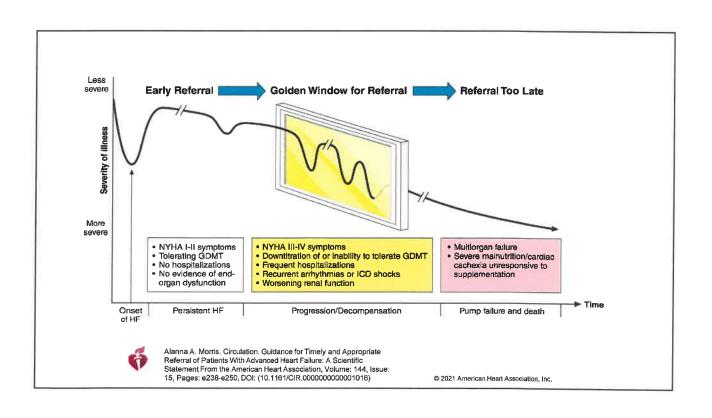
Second opinion regarding etiology of HF; for example:

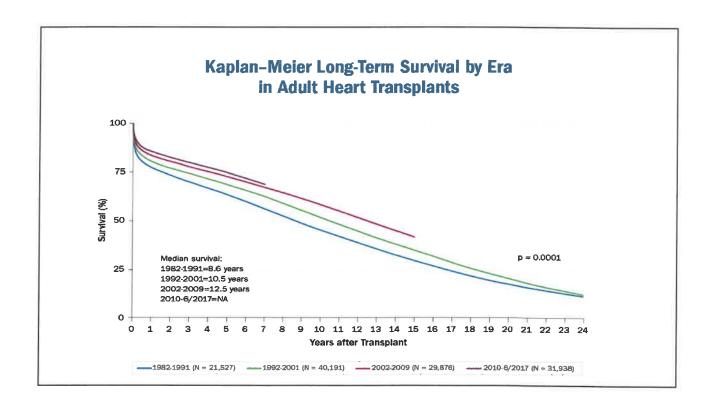
Evaluation for potential ischemic etiology Suspected myocarditis
Established or suspected specific cardiomyopathies, e.g., HCM, ARVD, Chagas disease, restrictive cardiomyopathy, cardiac sarcoidosis, amyloid, AS
VHD with or without HF symptoms

Annual review for patients with established advanced HF in which patients/ caregivers and clinicians discuss current and potential therapies for both anticipated and unanticipated events, possible HF disease trajectory and prognosis, patient preferences, and advanced care planning

Assess the possibility of participation in a clinical trial







1	Inotropes	Previous or ongoing requirement for dobutamine, milrinone, dopamine, or levosime	
N	NYHA class/NP	Persisting NYHA class III or IV and/or persistently high BNP or NT-proBNP	
E	End-Organ Dysfunction	Worsening renal or liver dysfunction in the setting of HF	
E	Ejection Fraction	Very low EF < 20%	
D	Defibrillator shocks	Recurrent appropriate defibrillator shocks	
Н	Hospitalizations	More than 1 hospitalization with HF in the last 12 months	
E	Edema/Escalating diuretics	Persisting fluid overload and/or increasing diuretic requirement	
L	Low blood pressure	Consistently low blood pressure with SBP <90 to 100 mmHg	
P	Prognostic medication	Inability to uptitrate (or need to decrease/cease) ACE-Is, beta-blockers, ARNIs, or M	

# Conclusion

- AdHF is at least as deadly as most cancer
- There is a window of opportunity to act while patients are feeling well
- Prompt referral and collaboration with Advance HF Team could save lives and reduce admission
- •Let's do it together!!!