

# IMPLEMENT-EF: Clinical Perspectives – Foundations of HFpEF/HFmrEF



Webinar will begin shortly

## Initiative Overview



#### **GOALS:**

- In 2025, the American Heart Association, launched a quality improvement initiative.
- Discover current gaps and identify ideal care models in the HFpEF/HFmrEF patient journey
- Build a network of multidisciplinary team members focused on improving HFpEF/HFmrEF care
- Amplify HFpEF/HFmrEF awareness with providers and monitoring adherence to evidence-based therapies for HFpEF/HFmrEF patients in hospitals



Scan the QR code to see a map of participating sites, stay informed about upcoming educational opportunities, and insights from the initiative.

heart.org/IMPLEMENTEF

https://www.heart.org/en/professional/quality-improvement/implement-ef



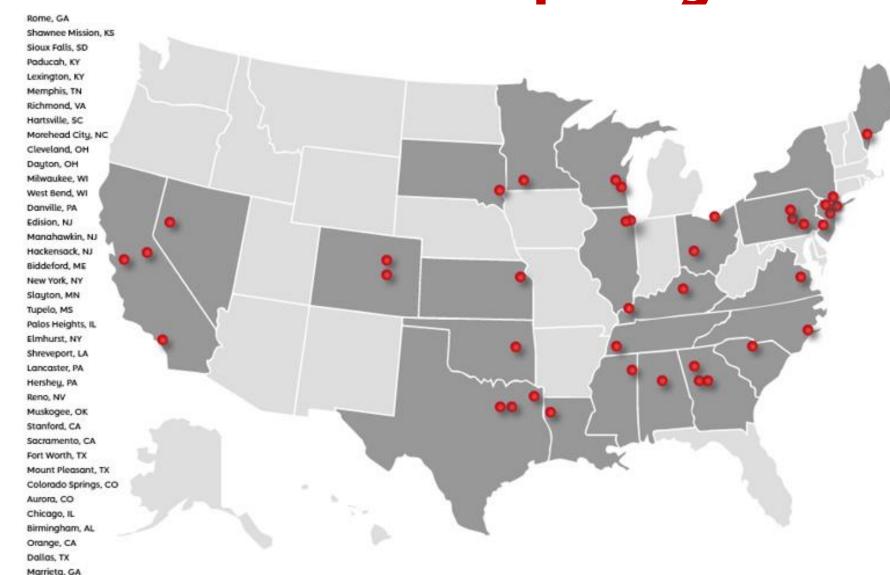


# American Heart Associations IMPLEMENT-EF IMPLEMENT-EF Participating Sites

- AdventHealth Redmond
- 2. AdventHealth Shawnee Mission
- Avera McKennan Hospital & University Health Center
- 4. Baptist Health Paducah
- 5. Baptist Health Lexington
- Baptist Memorial Hospital Memphis
- 7. Bon Secours St. Mary's Hospital
- 8. Carolina Pines Regional Medical Center
- 9. Carteret Health Care
- 10. Cleveland Clinic
- 11. Dayton Veterans Affairs Medical Center
- 12. Froedtert Hospital
- 13. Froedtert West Bend Hospital
- 14. Geisinger Medical Center
- 15. Hackensack Meridian JFK University Medical Center
- 16. Hackensack Meridian Southern Ocean Medical Center
- 17. Hackensack University Medical Center
- 18. MaineHealth Maine Medical Center Biddeford
- 19. Mount Singi Health System
- 20. Murray County Medical Center
- 21. North Mississippi Medical Center
- 22. Northwestern Medicine Palos Hospital.
- 23. NYC Health + Hospitals / Elmhurst
- 24. Ochsner LSU Health Shreveport
- 25. Penn Medicine Lancaster General Health
- 26. Penn State Health Milton S. Hershey Medical Center
- 27. Renown Regional Medical Center
- 28. Saint Francis Hospital Muskogee
- 29. Stanford Health Care
- 30. Sutter Medical Center, Sacramento
- 31. Texas Health Fort Worth
- 32. Titus Regional Medical Center
- 33. UCHealth Memorial Hospital Central
- 34. UCHealth University of Colorado Hospital
- 35. UI Health
- 36. University of Alabama at Birmingham Hospital
- 37. University of California Irvine Medical Center
- 38. University of Texas Southwestern Medical Center

Hiram, GA

- 39. WellStar Kennestone Regional Hospital
- 40. WellStar Paulding Hospital



heart.org/IMPLEMENTEF

# Clinical Perspectives: Foundations of HFpEF/HFmrEF

Georges Chahoud, MD, FACC, FAHA, FHFSA, FASE Regional Director, Heart Failure Clinical Program-SSM Health, St. Louis & Southern IL



### **Disclosures**

I have these relevant financial relationships. I don not intend to present any offlabel indications for medications or devices.

Type of Relationship: Speaker Bureau

 Zoll, Astra Zeneca, Boehringer Ingelheim Pharmaceuticals, Merck, SCpharma, Abiomed, Abbott, Impulse Dynamics, CVRx, Bayer

Type of Relationship: Research

• Zoll, Impulse Dynamics

Type of Relationship: Advisory Board

Astra Zeneca, Zoll, Bayer, Abiomed

## Disclaimer

The recommendations and opinions presented by our guest speakers may not represent the official position of the American Heart Association. The materials are for educational purposes only and do not constitute an endorsement or instruction by AHA/ASA. The AHA/ASA does not endorse any product or device.



# Universal Definition of Heart Failure

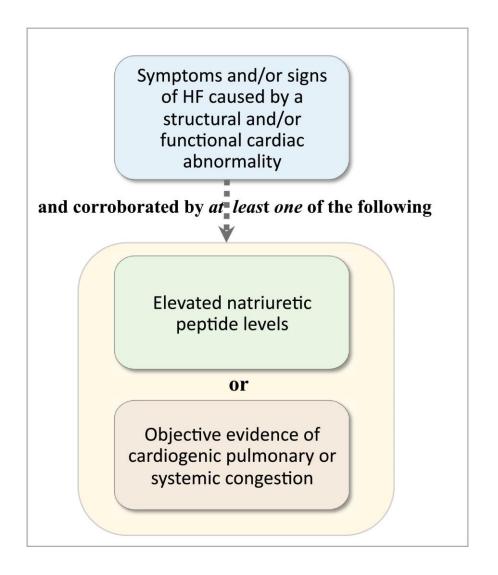
#### **HF** is a Clinical Syndrome

- HF is a clinical syndrome with current or prior Symptoms and or signs caused by a structural and/or functional cardiac abnormality, as determined by
  - Abnormal cardiac chamber enlargement
  - E/E' of >15
  - Moderate/severe ventricular hypertrophy
  - or moderate/severe valvular obstructive or regurgitant lesion
- And corroborated by at least one of the following:
  - Elevated natriuretic peptide levels

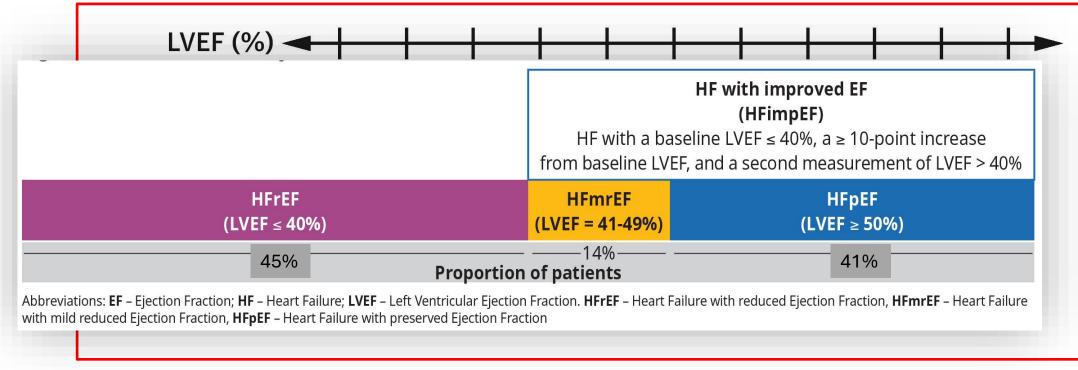
Natriuretic Peptide Levels Supporting Definition of HF					
	Ambulatory	Hospitalized/Decompensated			
BNP, pg/mL	≥35	≥100			
NT-ProBNP, pg/mL	≥125	≥300			

<sup>\*</sup> Reduced specificity in older patients, CKD, A.fib

• Objective evidence of *Cardiogenic Pulmonary or Systemic Congestion* by diagnostic modalities, such as imaging (eg, by chest radiograph or elevated filling pressures by echocardiography) or hemodynamic measurement (eg, right heart catheterization, pulmonary artery catheter) at rest or with provocation (eg, exercise)



# Classification of Heart Failure According to Ejection Fraction

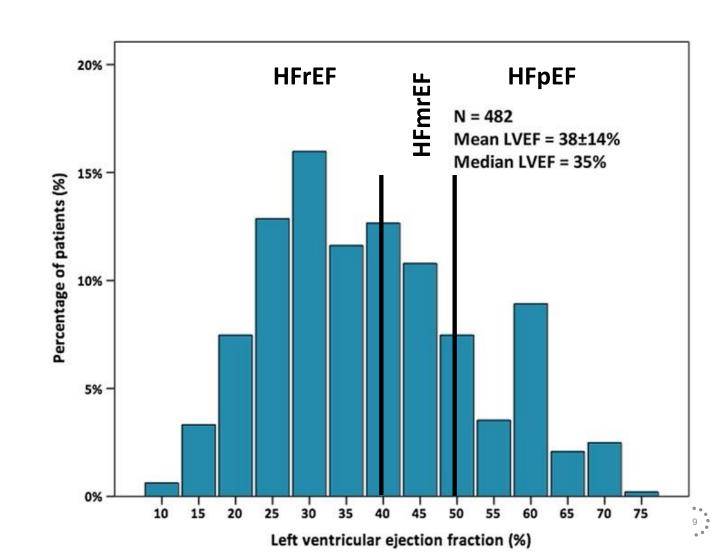






# Distribution of EF in Heart Failure Patients

- Patients with HFrEF, HFmrEF, and HFpEF share the same cardiovascular risk factors, medical history, and prognosis.
- Patients with HFmrEF have a different clinical profile, which is nearly the same as patients with HFpEF, except for sex.
- Between 13-24% of HF patients have EF below 50% but above 40%, suggesting that there are ~ 1.6 million HFmrEF in the US along.
- These patients have been largely excluded from clinical trials that have focused on patients with HFrEF (usually defined as < 35%) or HFpEF (usually defined as EF > 50%).





### WHAT IS HFPEF?

### How do we make the diagnosis?

- Classical Definition: Inability of the heart to pump blood adequately at normal filling pressures in patient with EF≥50%
  - New "Universal" Definition: Clinical syndrome with symptoms and or signs caused by a structural and/or functional cardiac abnormality and corroborated by elevated natriuretic peptide levels and/or objective evidence of pulmonary or systemic congestion
- Diagnosis relies on finding objective evidence of congestion:
  - Physical exam
  - Natriuretic peptides & radiography
  - Echocardiography: left atrial (LA) enlargement, LA dysfunction
  - Catheterization: ↑PCWP (≥15 mmHg at rest, ≥25 mmHg with exercise)



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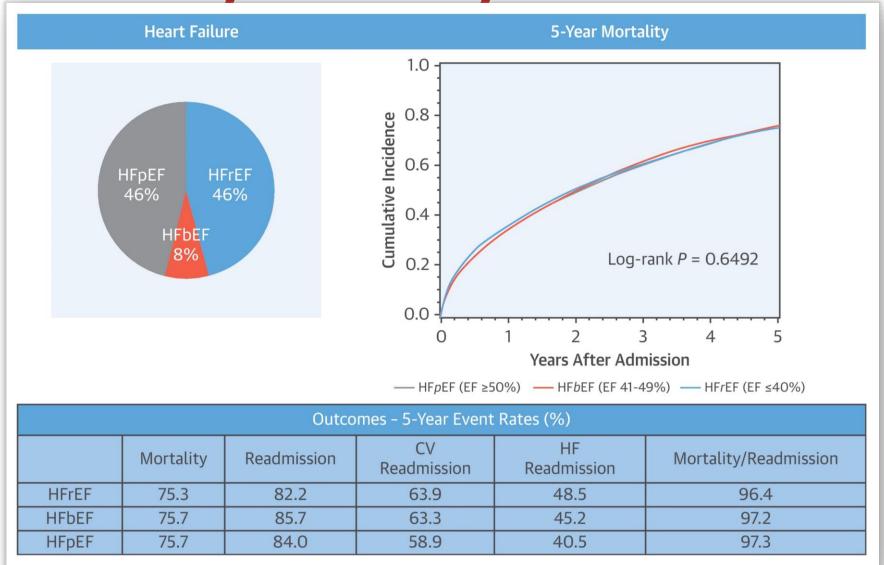


## **EPIDEMIOLOGY OF HFPEF**

	HFpEF Incidence	HFpEF Prevalence HFpEF Clinical Outcomes	
	<ul> <li>27 cases per 10,000 person-years</li> <li>Lifetime risk: 1 in 10 at age 45 years</li> </ul>	<ul><li>1.0%-1.5% of population</li><li>Highly age dependent</li></ul>	<ul> <li>5-year mortality: 75.3% (GWTG registry)</li> <li>30-day all-cause readmission rate: 21%</li> </ul>
Secular trends	↑ incidence over time	↑ prevalence over time	?
Sex differences	<b>★</b> ↔ <b>↑</b>	<b>*</b> > <b>*</b>	<b>†</b> < <b>†</b>
HFpEF vs HFrEF	HFpEF incidence rising relative to HFrEF	HFpEF prevalence rising relative to HFrEF	Similarly poor survival ↓ CV death in HFpEF vs HFrEF



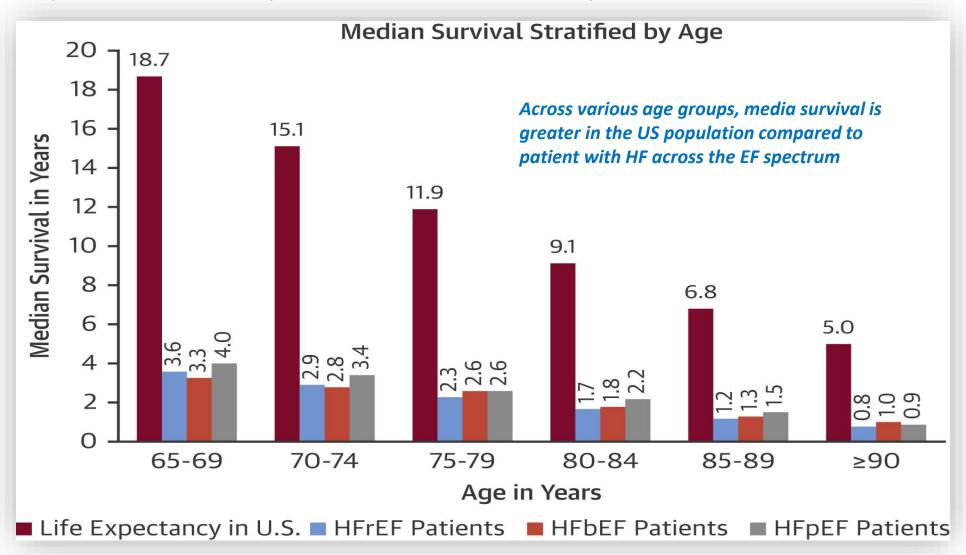
# 5-YEAR OUTCOME IN PATIENTS WITH HF WITH PRESERVED, BORDERLINE, AND REDUCED EF





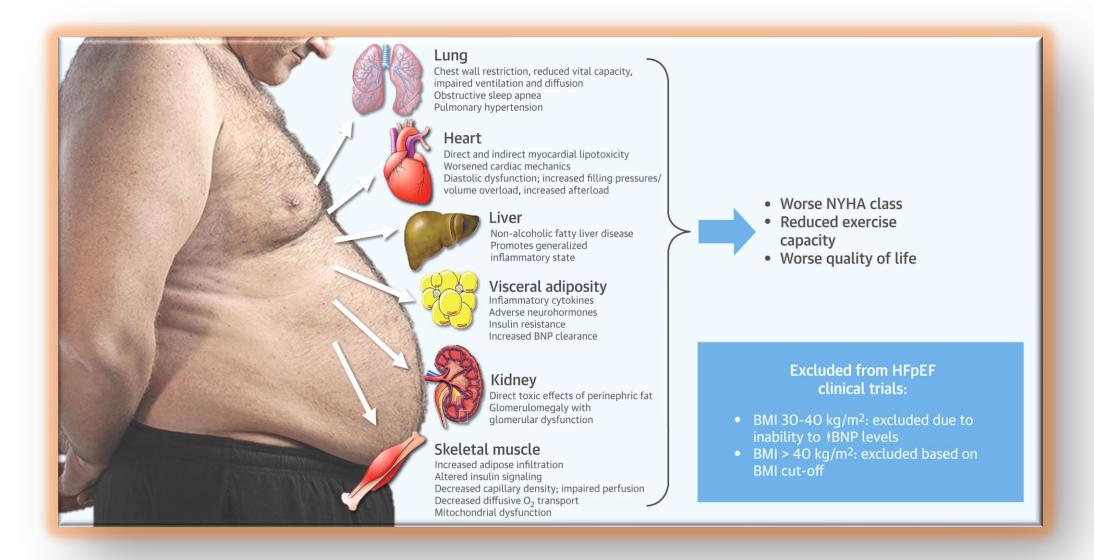
## **OUTCOMES WITH HF HOSPITALIZATION**

5-year Outcomes Compared with the General US Population



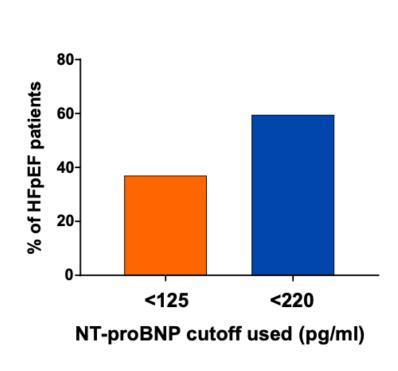


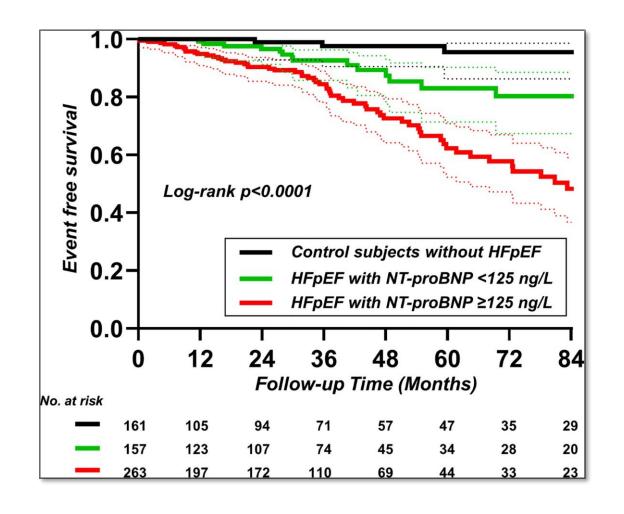
# HFpEF: A heterogeneous, systemic syndrome





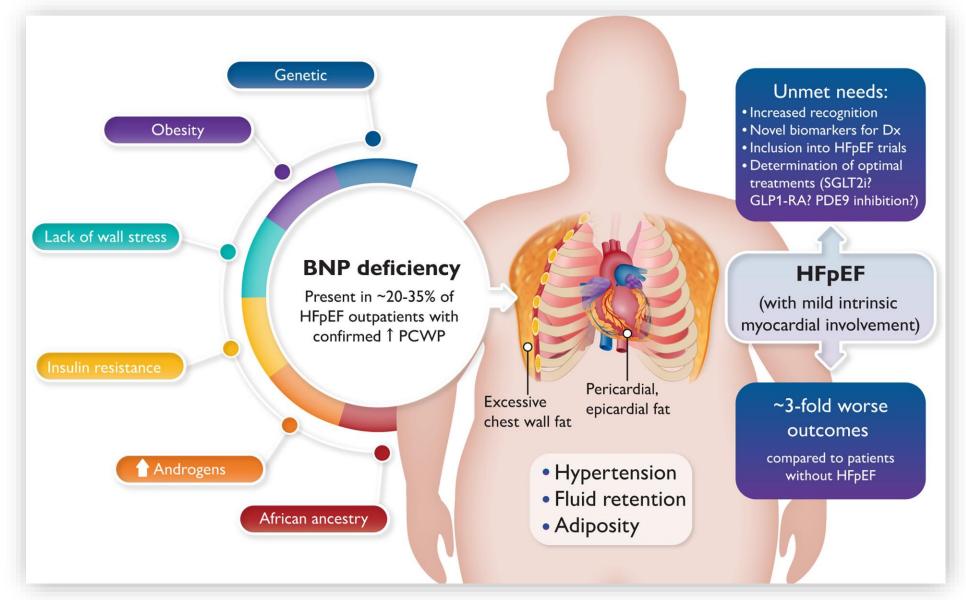
## Normal NT-proBNP does NOT exclude HFpEF





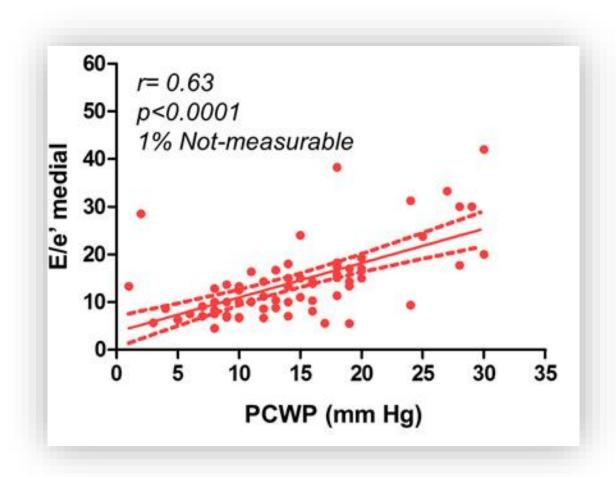


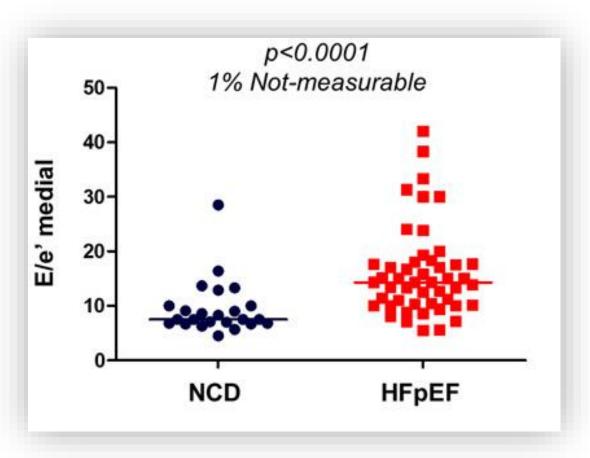
### **BNP** DEFICIENCY SYNDROME IN HFPEF





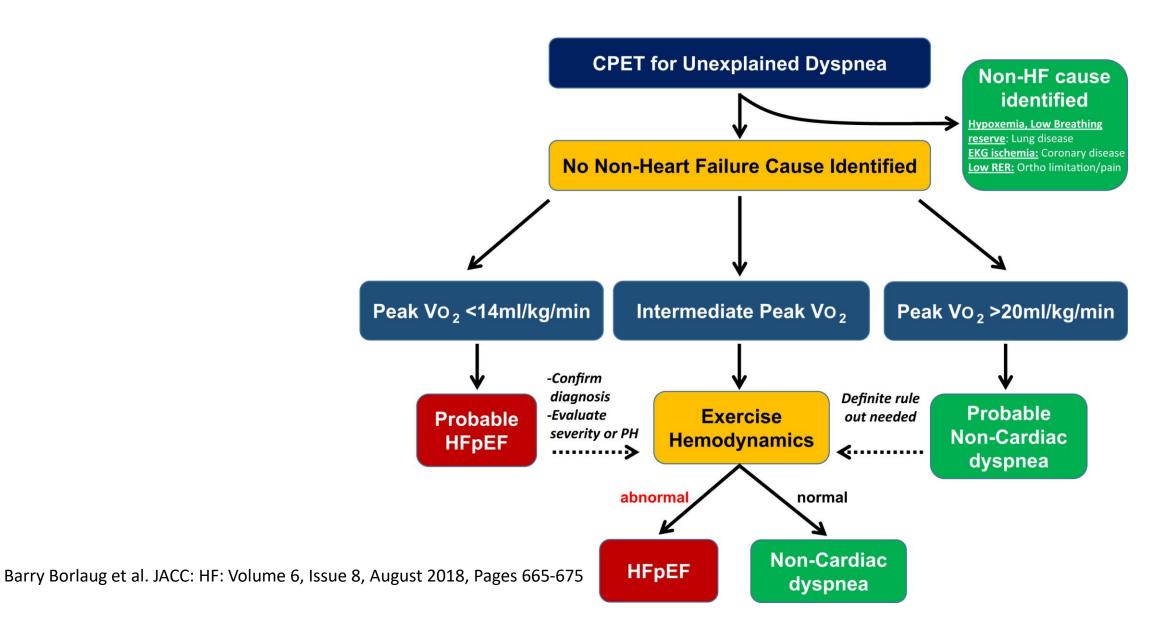
# E/e' ratio: Useful when high only





#### Utilization of CPET in the Evaluation of Unexplained Dyspnea







### **H2FPEF SCORE AND PROBABILITY OF HFPEF**

	Clinical Variable	Values	Points		
ш	Heavy	Body mass index > 30 kg/m <sup>2</sup>	2		
112	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 <sub>2</sub> FPEF score					
Total Points 0 1 2 3 4 5 6 7					
Probability of HFpEF 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.95					

#### **DOE**, normal EF ≥50%:

- HFpEF vs. non-cardiac dyspnea?
- Intermediate pre-test probability

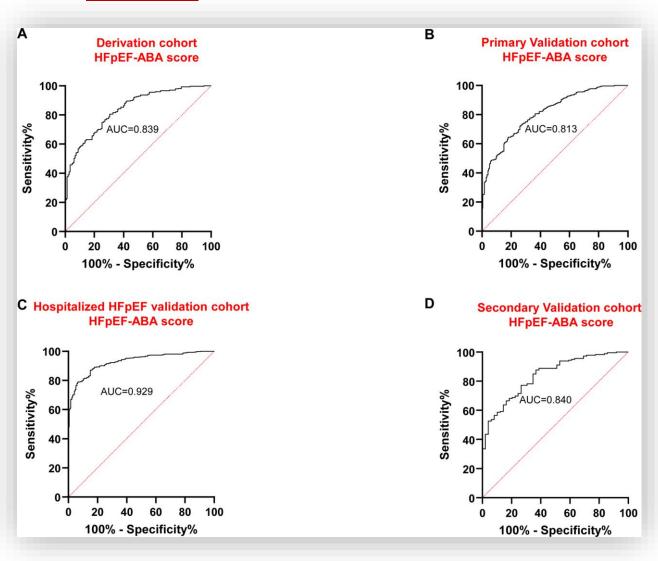
# Probability of HFpEF based on H2FPEF score:

- Score 0-2 → Unlikely HFpEF
- Score 2-4 → Exercise testing
- Score 5-9 → Likely HFpEF (> 80% probability)



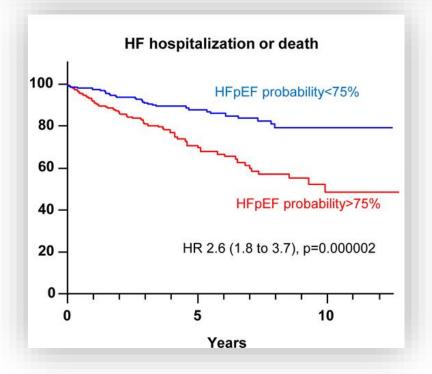
## EVIDENCE-BASED SCREENING TOOL FOR HFPEF: THE HFPEF-ABA

### Association. SCORE



HFpEF screening model that is based exclusively on clinical variables:

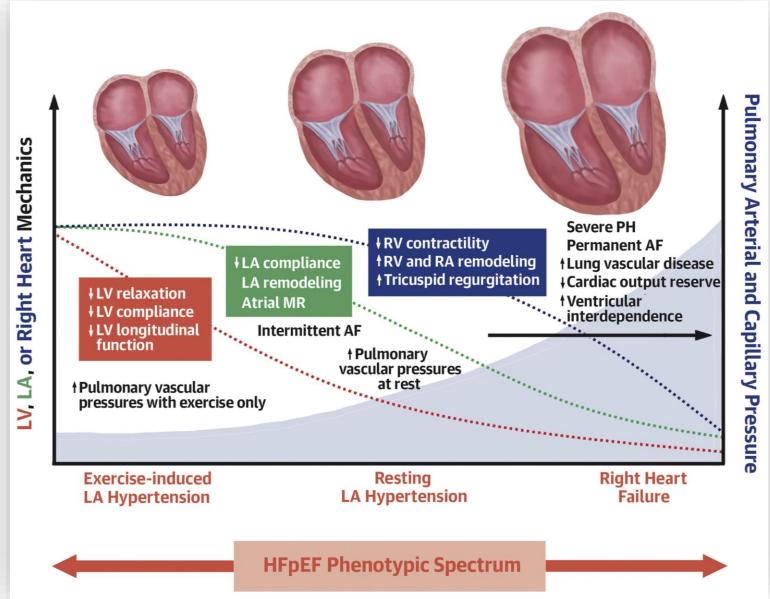
- 1. Age
- 2. Body mass index
- 3. and history of atrial fibrillation





#### TEMPORAL DISEASE PROGRESSION IN HEART FAILURE WITH PRESERVED



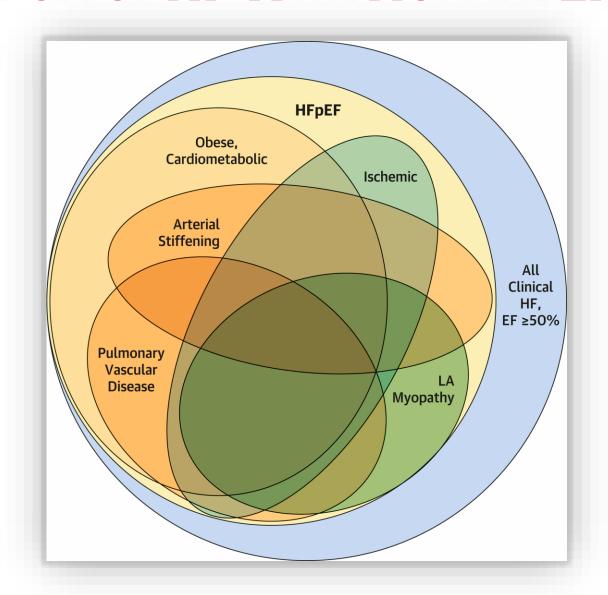




### PHENOTYPIC SPECTRUM OF HF WITH NORMAL EF

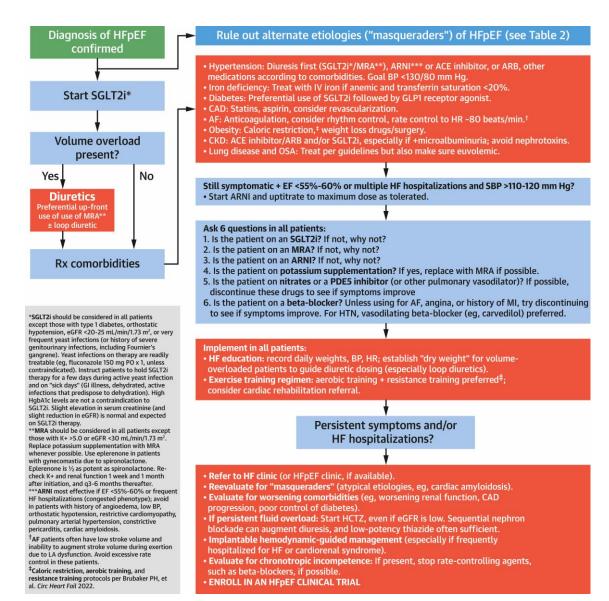
Even after excluding non-HFpEF "masqueraders", shown here by the **shaded blue area**, multiple pathophysiologically distinct phenogroups exist within the broader spectrum of HFpEF (yellow circle)

These individual phenogroups are sometimes singular but typically display considerable overlap with one another, complicating schemes to separate them into discrete cohorts





### SUMMARY OF KEY POINTS FOR TREATMENT OF HFPER





# Thank You.



# Current Evidence – Based Therapies and Treatments

Pardeep S Jhund BSc(Hons), MBChB, MSc, PhD





Speakers fees: AstraZeneca, ProAdWise Communications;

Advisory board fees: AstraZeneca, Bayer AG

Research funding: AstraZeneca, Boehringer Ingelheim, Analog Devices Inc,

Roche Diagnostics

My employer the University of Glasgow has been remunerated for clinical trial work from AstraZeneca, Bayer AG, Novartis, and Novo Nordisk

Director at GCTP Ltd



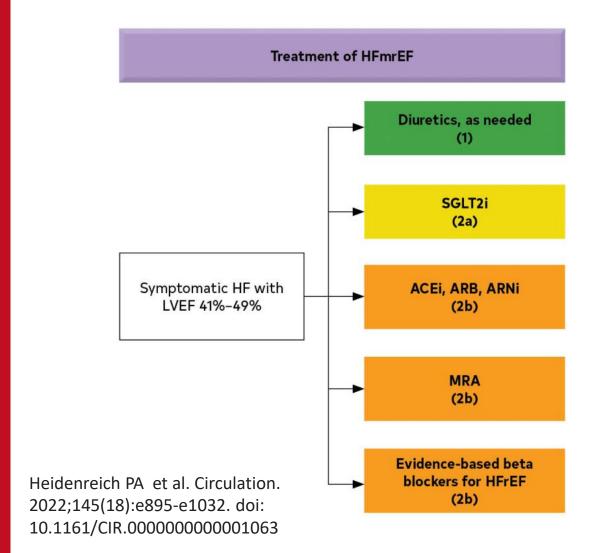
## Disclaimer

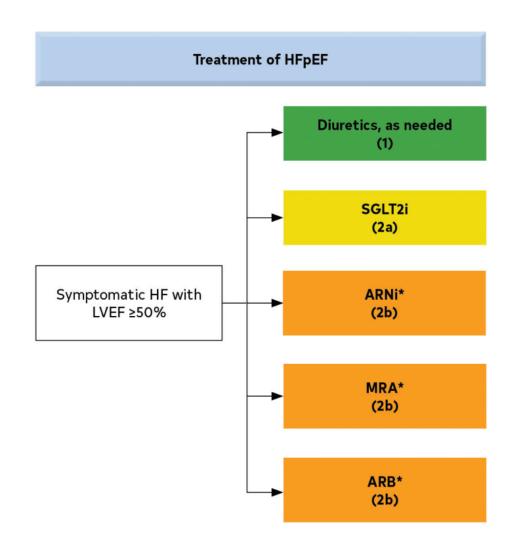
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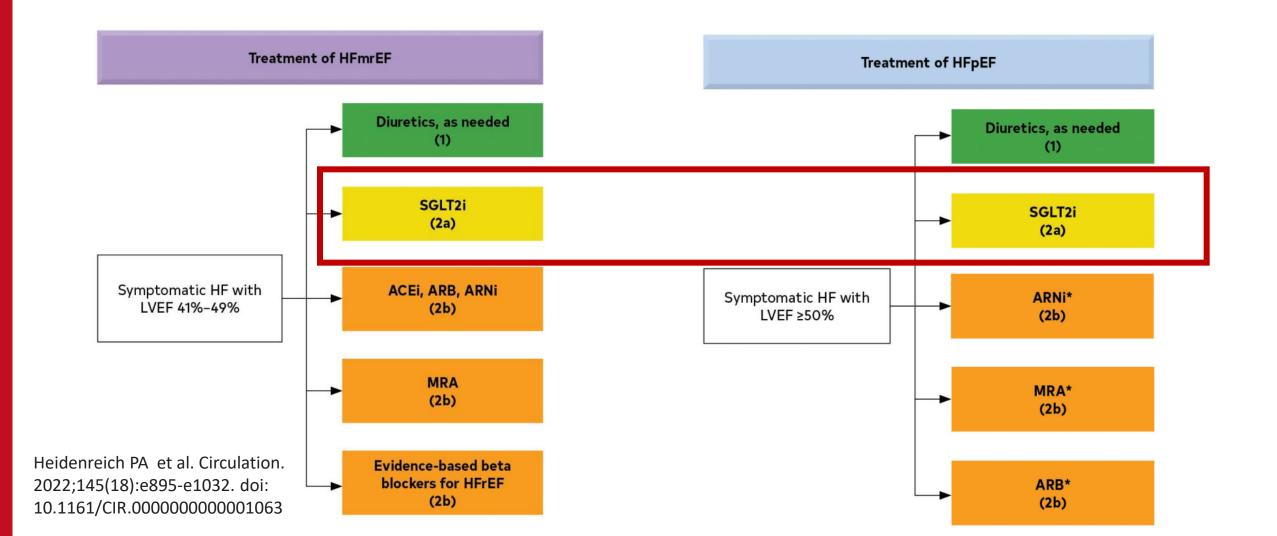
# Management of HFmrEF/HFpEF 2022 AHA/ACC/HFSA Guideline







# Management of HFmrEF/HFpEF 2022 AHA/ACC/HFSA Guideline



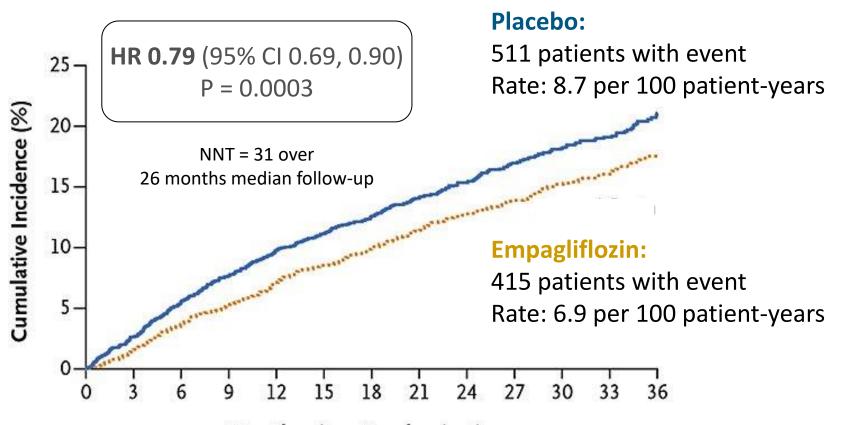


# **EMPEROR-Preserved**

Empagliflozin Outcome Trial in Patients with Chronic Heart Failure with Preserved

Ejection Fraction

Primary composite endpoint: Cardiovascular death or heart failure hospitalization



**HF** hospitalization

HR 0.71 (0.60, 0.83)

**CV** death

HR 0.91 (0.76, 1.09)

Months since Randomization

Anker et al. N Engl J Med. 2021;385(16):1451-1461.



## SGLT2 inhibitors in patients with HFmrEF and HFpEF

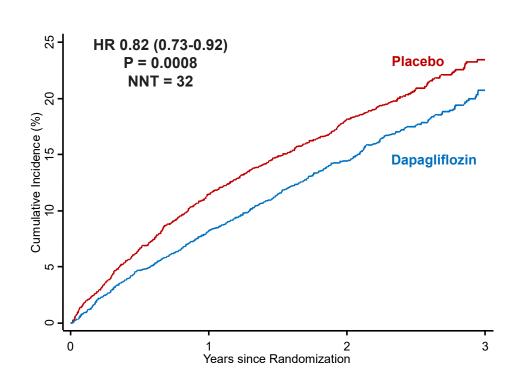
Patients with and without type 2 diabetes

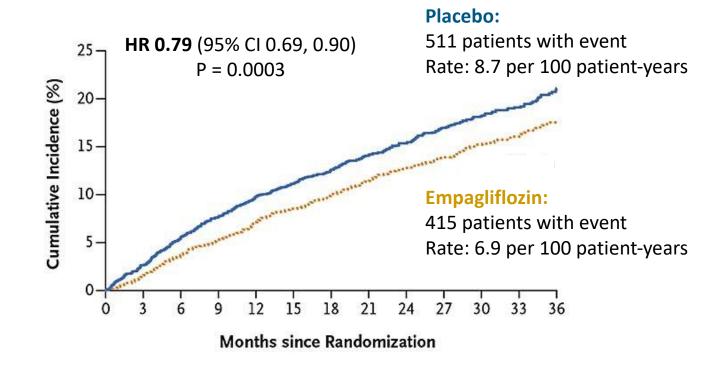
**DELIVER** 

**EMPEROR-Preserved** 

#### CV Death/worsening HF event

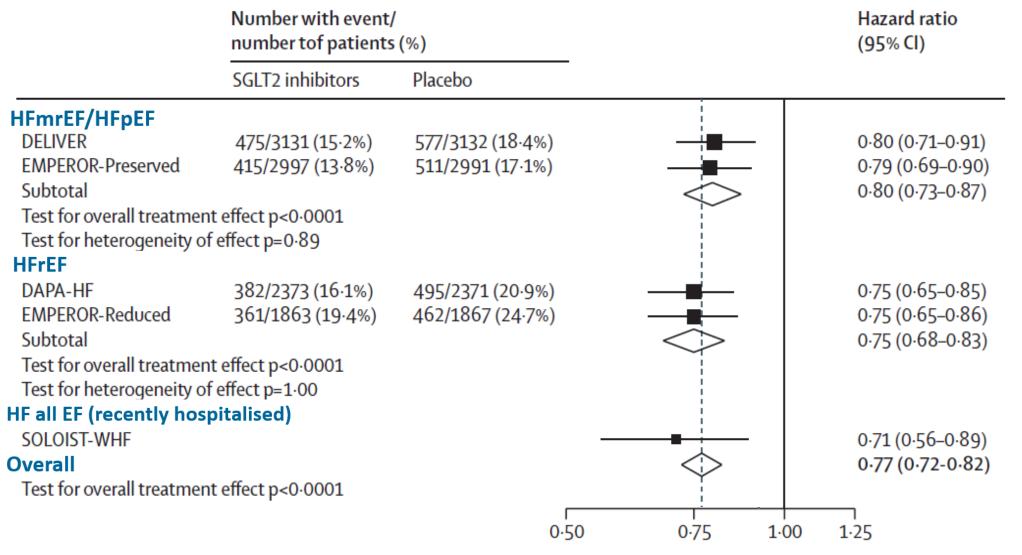
CV Death/HF hospitalization







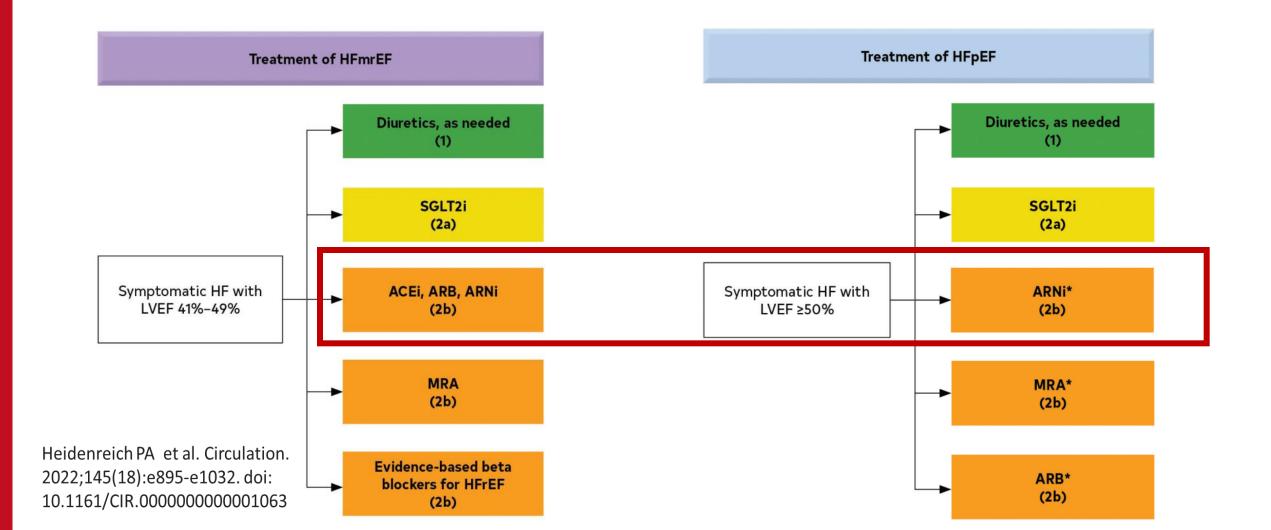
# Meta-analysis of 5 large RCTs with SGLT2i in patients with HF (CV death/ HF hospitalisation)



Vaduganathan, Docherty et al Lancet. 2022;400(10354):757-767



# Management of HFmrEF/HFpEF 2022 AHA/ACC/HFSA Guideline



#### PARAGON-HF



Prospective comparison of ARni with Arb Global Outcomes in heart failure with preserved ejection fraction

# The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1812

OCTOBER 24, 2019

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# Angiotensin–Neprilysin Inhibition in Heart Failure with Preserved Ejection Fraction

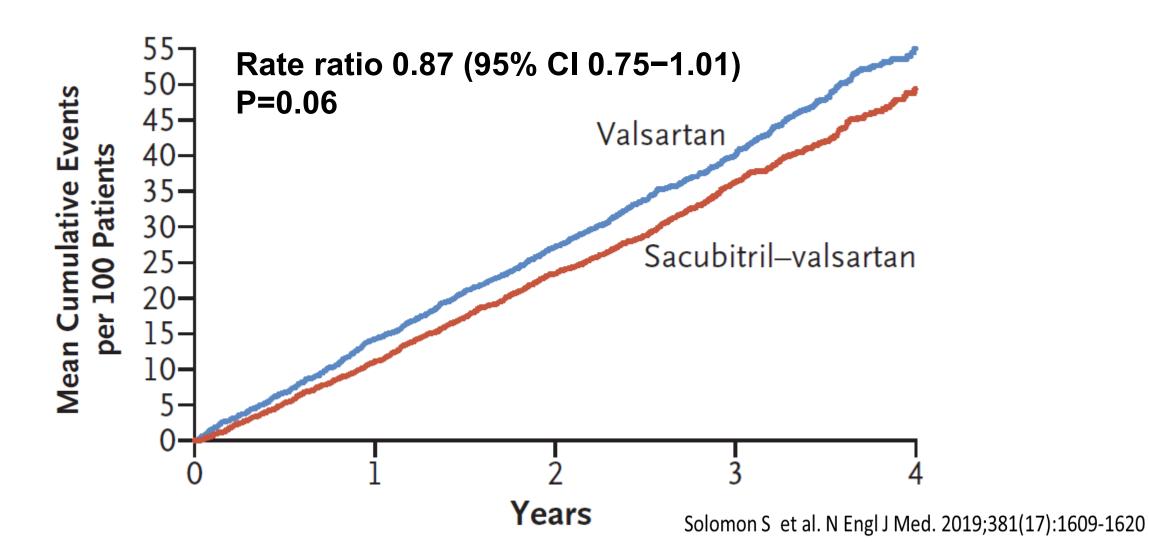
S.D. Solomon, J.J.V. McMurray, I.S. Anand, J. Ge, C.S.P. Lam, A.P. Maggioni, F. Martinez, M. Packer, M.A. Pfeffer, B. Pieske, M.M. Redfield, J.L. Rouleau, D.J. van Veldhuisen, F. Zannad, M.R. Zile, A.S. Desai, B. Claggett, P.S. Jhund, S.A. Boytsov, J. Comin-Colet, J. Cleland, H.-D. Düngen, E. Goncalvesova, T. Katova, J.F. Kerr Saraiva, M. Lelonek, B. Merkely, M. Senni, S.J. Shah, J. Zhou, A.R. Rizkala, J. Gong, V.C. Shi, and M.P. Lefkowitz, for the PARAGON-HF Investigators and Committees\*



### PARAGON-HF

Prospective comparison of ARni with Arb Global Outcomes in heart failure with preserved ejection fraction

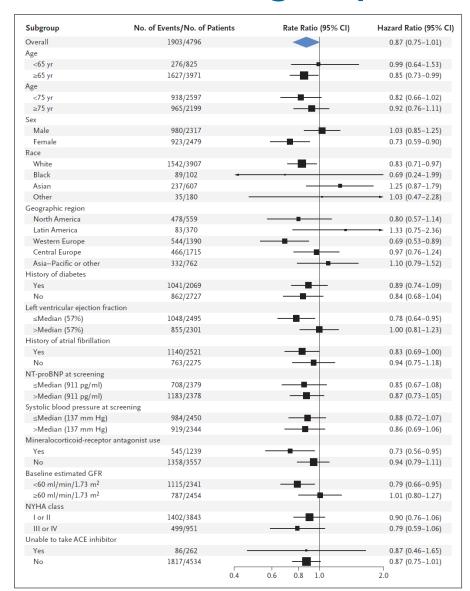
Primary Outcome – CV death / Total HF hospitalizations

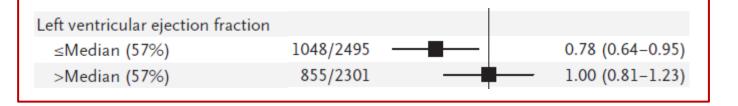




### **PARAGON-HF**

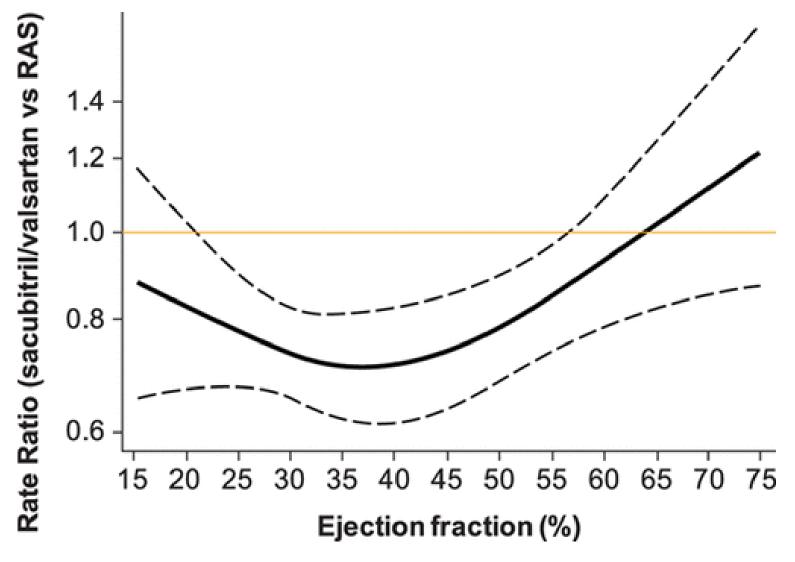
### Subgroups- CV death / Total HF hospitalizations







# PARAGON-HF & PARADIGM-HF Total HF hospitalization or CV death



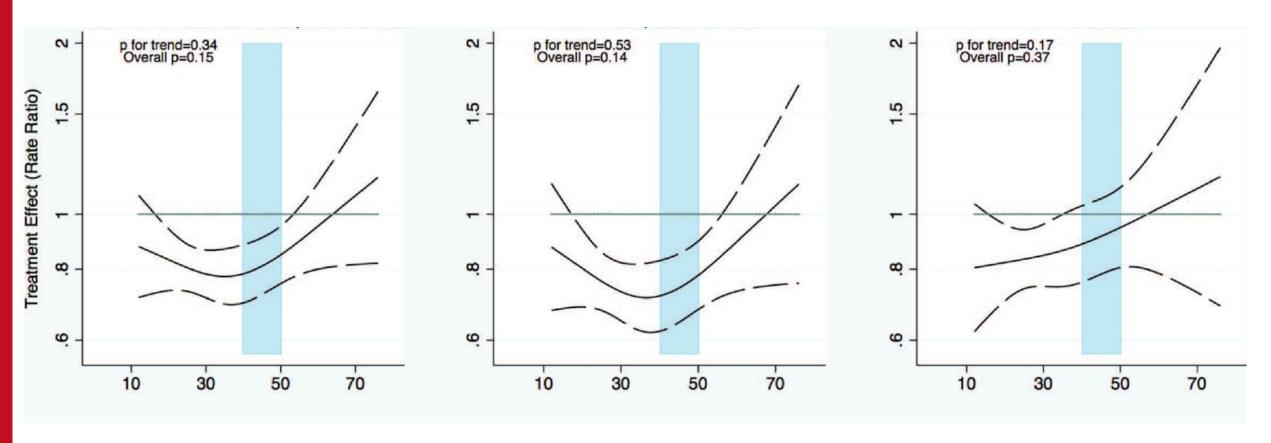


# CHARM-Programme: Effect of candesartan across the LVEF spectrum



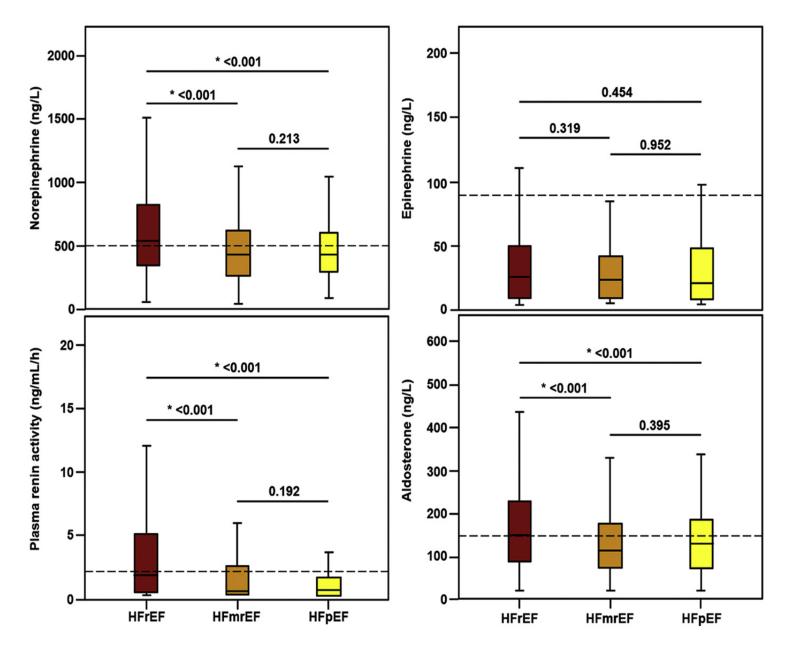
**HF** hospitalization

**CV** death





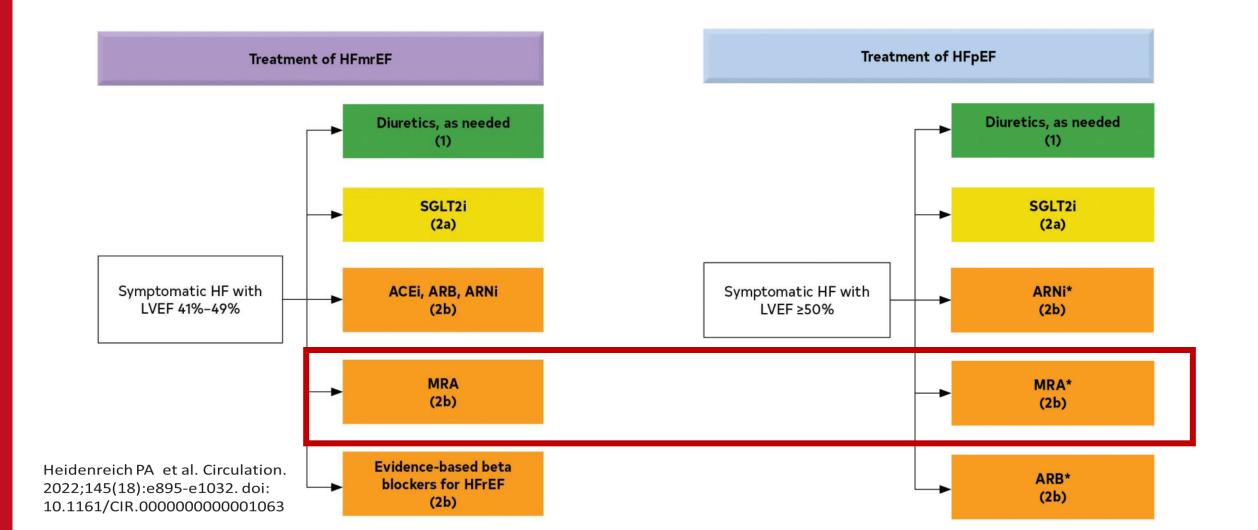
### Less neurohormonal activation in HFpEF



Vergaro G et al *Int J Cardiol*. 2019;296:91–97



# Management of HFmrEF/HFpEF 2022 AHA/ACC/HFSA Guideline

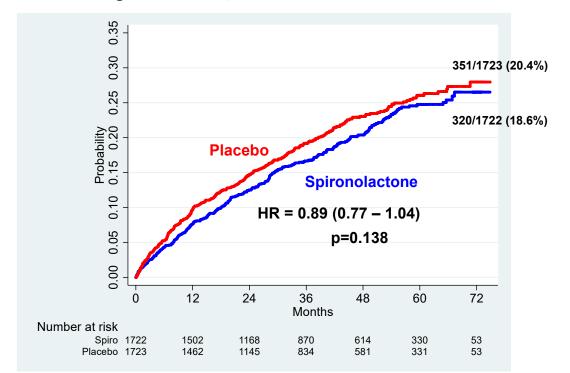


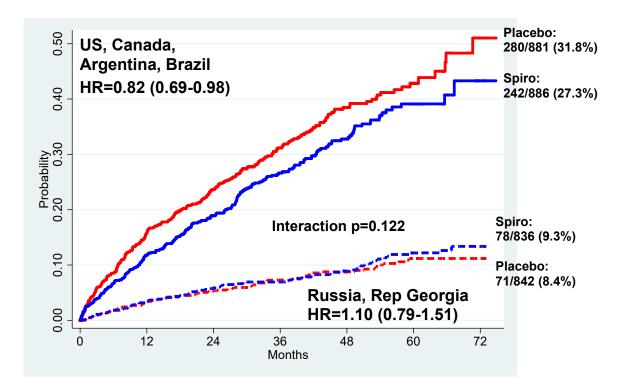


### MRAs in HFPEF

- Mineralocorticoid receptor antagonists (MRAs) have a IA recommendation in guidelines for HFrEF but not HFpEF
- Based on interpretation of TOPCAT

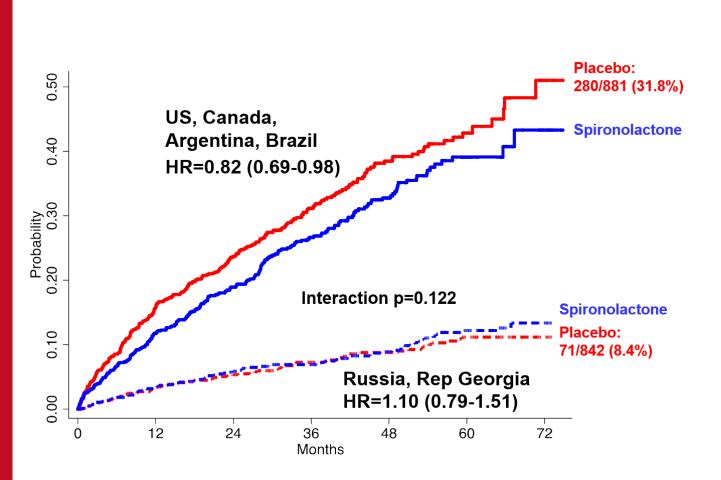
Pfeffer et al. N Engl J Med 2017; 376:1690-1692

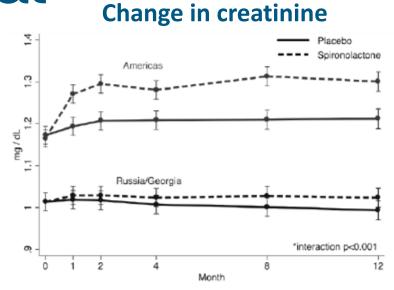




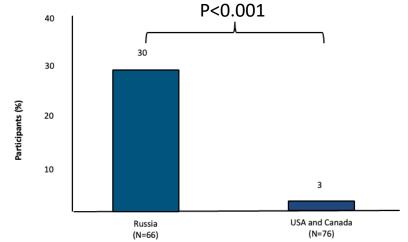


# TOPCAT: Forensic analysis by Marc Pfeffer et al





#### Reported use with no detectable canrenone



Pfeffer MA et al Circulation. 2015;131:34-42. de Denus S et al N Engl J Med. 2017;376:1690-1692. Pfeffer et al. N Engl J Med 2017; 376:1690-1692



## IIb B-R

# Management of HFmrEF/HFpEF 2022 AHA/ACC/HFSA Guideline

A post hoc analysis6 showed efficacy in the Americas (HR 0.83) but not in Russia-Georgia (HR 1.10). A sample of the Russia-Georgia population in the active treatment arm had nondetectable levels of a spironolactone metabolite. Post hoc analyses have limitations, but they suggest a possibility of benefit in appropriately selected patients

with symptomatic HFpEF (LVEF ≥45%, elevated BNP level or HF admission within 1 year, eGFR >30 mL/min/1.73 m2, creatinine <2.5 mg/dL, and potassium <5.0 mEq/L).



### **FINEARTS-HF:** Trial design

Randomized, double-blind, placebo-controlled trial testing the hypothesis that finerenone would reduce cardiovascular death and total worsening heart failure events in patients with heart failure and mildly reduced or preserved ejection fraction

#### Key inclusion criteria

- Symptomatic HF (NYHA class II-V) with LVEF ≥40%
- Hospitalized, recently hospitalized, or ambulatory
- Elevated natriuretic peptide levels
- Structural heart disease (LA Enlargement or LVH)
- Diuretics in the 30 days prior to randomization

#### Key exclusion criteria

- Potassium >5.0 mmol/L; eGFR <25 mL/min/1.73 m²</li>
- MRA use 30 days prior to randomization
- History of peripartum, chemotherapy induced, or infiltrative cardiomyopathy (e.g., amyloidosis)
- Alternative causes of signs or symptoms

Finerenone 10-20 mg or 20-40 mg dosing based on eGFR ( $mL/min/1.73 m^2$ ):  $\leq 60$ , max dose 20 mg; > 60, max dose 40 mg

Up-titrate to maximally tolerated dose if K+<5.0mmol/L and eGFR decrease <30%

#### Randomization Matching Placebo

1:1

Visits: Month 1, then 3-monthly for first 12 months, 4-monthly visits thereafter with telephone contact in between Solomon SD et al N Engl J Med. 2024 Oct 24;391(16):1475-1485.

#### Trial endpoints

#### **Primary Endpoint**

 CV death and total HF events (hospitalizations/urgent visits)

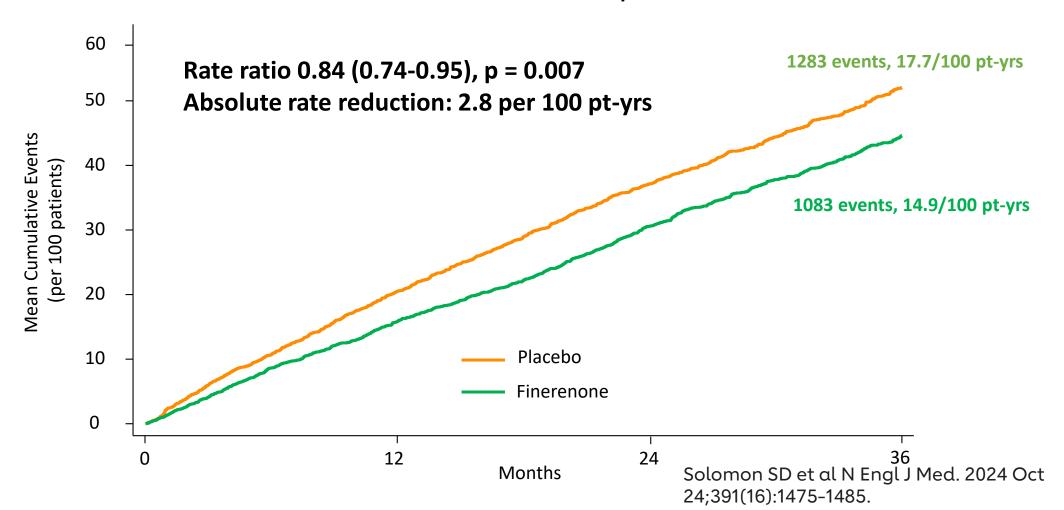
#### **Secondary Endpoints**

- Total HF events
- KCCQ-TSS at 6,9, and 12 months
- NYHA class at 12 months
- Renal composite endpoint
- All-cause mortality



# FINEARTS-HF: Primary endpoint CV Death and total HF events

Median follow-up of 32 months

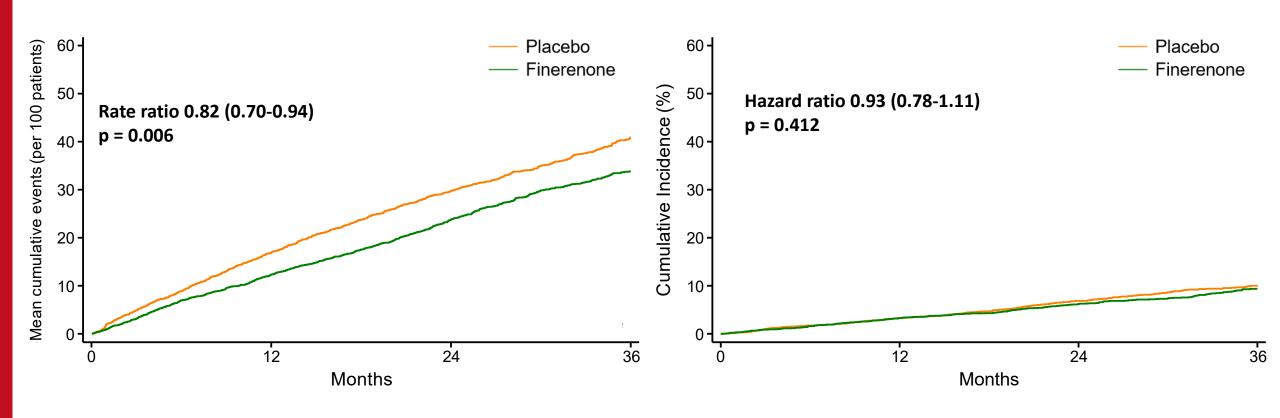




# FINEARTS-HF: Components of primary endpoint

### Total HF events

### **CV** death



Solomon SD et al N Engl J Med. 2024 Oct 24;391(16):1475-1485.

### **FINEARTS-HF: Prespecified subgroups (Primary outcome)**

Consistent treatment effects αcross all pre-specified subgroups, including ejection fraction and SGLT2-inhibitor use

Association.

Category	Finerenone Events	Placebo Events	RR (95% CI)		Category	Finerenone Events	Placebo Events	RR (95% CI)	
Age (years)			l I		SBP (mmHg)			ŀ	
≤ median	468	623	H	0.76 (0.63-0.92)	≤ median	608	740	H	0.85 (0.72-1.01)
> median	615	660	H	0.92 (0.77–1.09)	> median	475	543	<b>⊢</b>	0.84 (0.69–1.02)
Gender					eGFR				
Male	632	691	H I	0.88 (0.74–1.04)	< 60 mL/min/1.73m <sup>2</sup>	727	796	H	0.91 (0.78–1.07)
Female	451	592	H	0.78 (0.65–0.95)	≥ 60 mL/min/1.73m <sup>2</sup>	356	487	<b>⊢</b>	0.72 (0.59–0.88)
Race			1		Potassium				
White	809	986	⊢ <b>∳</b> -Iİ	0.82 (0.71–0.95)	≤ 4.5 mmol/L	714	875	<b>⊢</b>	0.81 (0.69-0.95)
Black	29	22		0.98 (0.37–2.62)	> 4.5 mmol/L	369	408	H	0.91 (0.74–1.11)
Asian	211	218		0.96 (0.72-1.29)	NT-proBNP (pg/mL)				
Other	34	57	<del>     </del>	0.60 (0.26–1.42)	≤ median	266	342	<b>—</b>	0.78 (0.62-0.99)
вмі			I I		> median	782	918	⊢ <b>∳</b> +¦	0.83 (0.71–0.96)
< 30 kg/m <sup>2</sup>	586	648	<u> </u>	0.88 (0.74–1.05)	UACR				
≥ 30 kg/m <sup>2</sup>	486	632	H	0.79 (0.66–0.95)	< 30 mg/g	429	518	⊢ <b>⊸</b> l	0.81 (0.67–0.97)
LVEF					≥ 30 mg/g	601	705	<b>⊢</b>	0.88 (0.74–1.05)
< 60%	877	1061	H	0.82 (0.71–0.94)	ACEi, ARB or ARNI				
≥ 60%	206	222		0.94 (0.70-1.26)	Yes	795	951	<b>⊢</b>	0.83 (0.72-0.96)
Region			. I		No	288	332		0.85 (0.66–1.11)
W Eur, Oce & Others	322	395	<del></del>	0.82 (0.64–1.06)	SGLT-2i				
Eastern Europe	322	389	<b>├</b>	0.83 (0.67–1.03)	Yes	176	234		0.83 (0.60-1.16)
Asia	211	218	<del></del>	0.95 (0.71–1.27)	No	907	1049	<b>₩</b>	0.85 (0.74–0.98)
North America	122	118		0.98 (0.67–1.45)	Atrial Fibrillation per ECG				
Latin America	106	163	<b>——</b>	0.65 (0.43-0.98)	Yes	521	621	<b>⊢</b>	0.80 (0.66–0.97)
NYHA Class			 		No	562	662	<b>⊢</b> ◆-}	0.85 (0.72–1.01)
II	646	741	<b>→</b>	0.86 (0.73–1.02)	Diabetes Mellitus				
III/IV	437	542	H	0.79 (0.65–0.96)	Yes	524	638	<b>—</b>	0.83 (0.69–1.00)
Index HF Events					No	559	645	<u> </u>	0.85 (0.71–1.01)
≤ 7 days	270	372		0.74 (0.57–0.95)			0.2	5 0.5 1 2 4	
> 7 days to ≤ 3 months	404	492	<b>⊢</b>	0.79 (0.64–0.97)	6 1 65		Fa	avors finerenone Favors placebo	
> 3 months or no prior HFE	409	0.25	0.5 1 2 vors finerenone Favors place	0.99 (0.81–1.21)	Solomon SD et al N Engl J Med. 2024 Oct 24;391(16):1475-1485.				



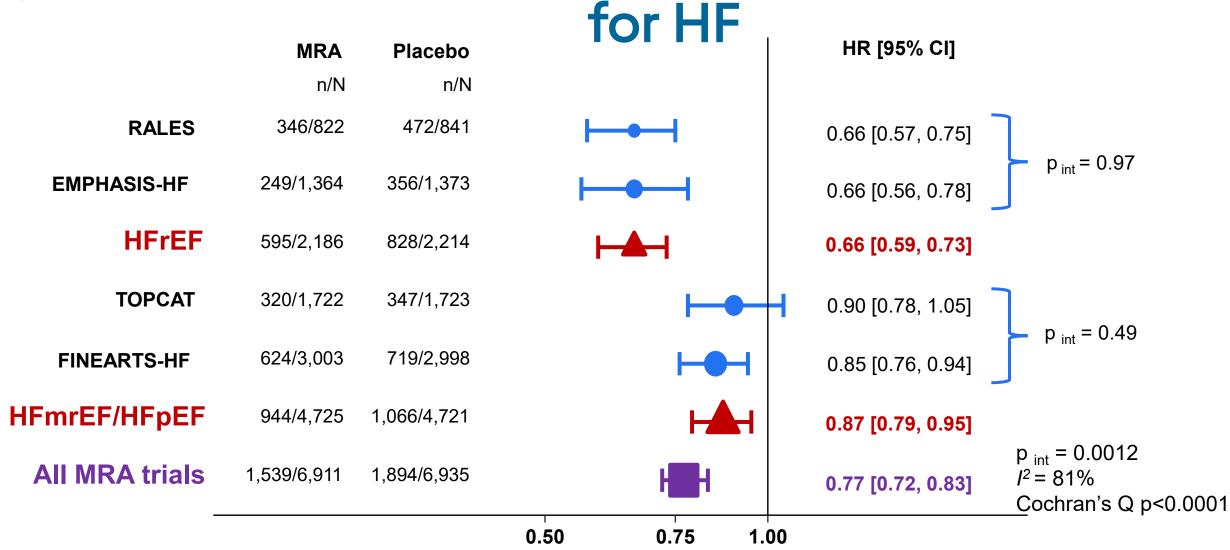
### FINEARTS-HF: Prespecified safety and tolerability

Treatment emergent safety outcome	Finerenone (N=2993)	Placebo (N=2993)
Any Serious Adverse Event (SAE)	38.7%	40.5%
Serum creatinine ≥3.0 mg/dl	2.0%	1.2%
Serum potassium >5.5 mmol/l >6.0 mmol/l <3.5 mmol/l	14.3% 3.0 % 4.4 %	6.9 % 1.4 % 9.7 %
Investigator-reported hyperkalaemia  Leading to hospitalization  Leading to death	9.7% 0.5% 0%	4.2% 0.2% 0%
Systolic blood pressure <100 mmHg	18.5%	12.4%

Solomon SD et al N Engl J Med. 2024 Oct 24;391(16):1475-1485.



## MRAs in HF: CV Death or hospitalisation



HR, hazard ratio; p int, p value for interaction;  $I^2$ , Higgins and Thompson's  $I^2$ 

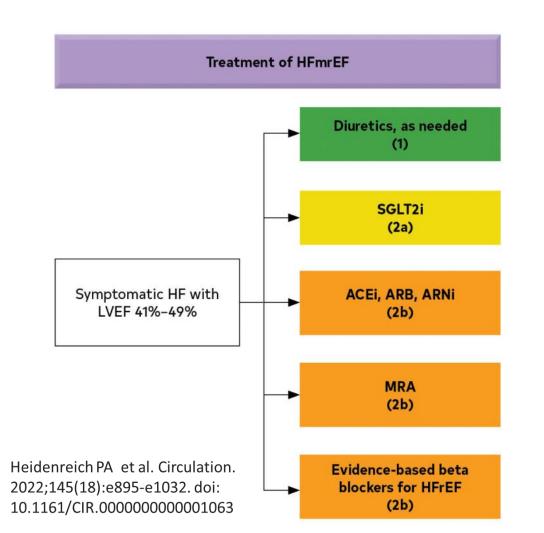
**Favours MRA** 

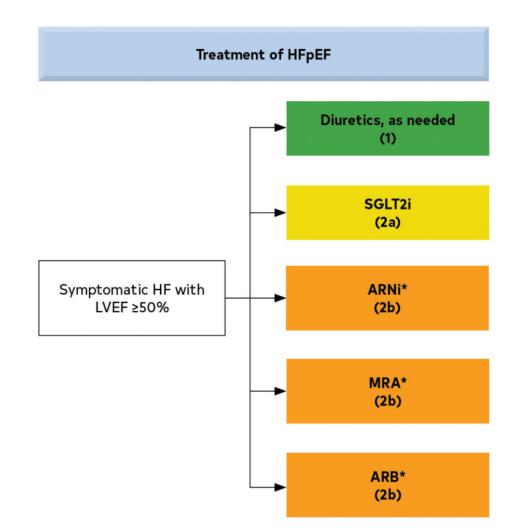
**Favours Placebo** 

Jhund PS et al Lancet. 2024;404(10458):1119-1131



# Management of HFmrEF/HFpEF 2022 AHA/ACC/HFSA Guideline







### Summary

- Patients with HFmrEF and HFpEF now have multiple therapies that improve outcomes
- SGLT2is have data to support their use across the ejection fraction spectrum
- MRAs look to also be effective across the ejection fraction spectrum
- ARNis are indicated in patients with lower than normal ejection fraction
- There is a role for beta blockers in HFmrEF and angiotensin receptor blockers in HFpEF



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- SGLT2is have data to support their use across the ejection fraction spectrum
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- ARNis are indicated in patients with lower than normal ejection fraction
- There is a role for beta blockers in HFmrEF and angiotensin receptor blockers in HFpEF

All these data are fantastic but are only valuable if we use them to treat our patients!



# Thank You.

# Questions?



## **Upcoming Event**



#### Virtual Event

## Bridging Gaps in HFpEF/HFmrEF Care: Diagnosis, Treatment, and Addressing Social Needs

Wednesday, December 10<sup>th</sup> 10:00am – 1:30 pm CT

This half-day summit brings together innovative models and practices to improve the identification, diagnosis, and treatment of HFpEF and HFmrEF. Through four focused sessions, participants will explore strategies for recognizing these conditions at admission, leveraging AI for diagnosis, implementing evidence-based therapies, and addressing health-related social needs from both clinical and patient perspectives. Join us to learn effective implementation strategies in caring for HFpEF/HFmrEF patients

- AI in Action: Enhancing HFpEF/HFmrEF Diagnosis Through Site-Based Model
- Spotlight on Admission: Models for Identifying HFpEF/HFmrEF at Admission
- Putting Evidence into Action: Real-World HFpEF/HFmrEF Treatment Model
- Barriers to Better Care: Tackling Health-Related Social Needs in HFpEF/HFmrEF Management



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