

XI Reunión. Estado del Arte en
INSUFICIENCIA CARDIACA
PRÁCTICA CLÍNICA Y MODELOS ORGANIZATIVOS

Sede: Hotel Meliá MaríaPita, A Coruña

A CORUÑA 27-28 SEPTIEMBRE 2024



XI Meeting. State of the Art in
HEART FAILURE
CLINICAL PRACTICE AND ORGANIZATIONAL MODELS

Venue: Hotel Meliá MaríaPita, A Coruña

#ACoruñaHF2024

A CORUÑA 27-28 SEPTEMBER 2024

Most relevant comorbidities in the elderly

Comorbilidades más relevantes en edad avanzada

Beatriz Seoane González

Unidad de Manejo Integral del Paciente con Insuficiencia Cardiaca (**UMIPIC**)
Servicio de Medicina Interna. Hospital Universitario de A Coruña



ÁREA SANITARIA
DA CORUÑA E CEE



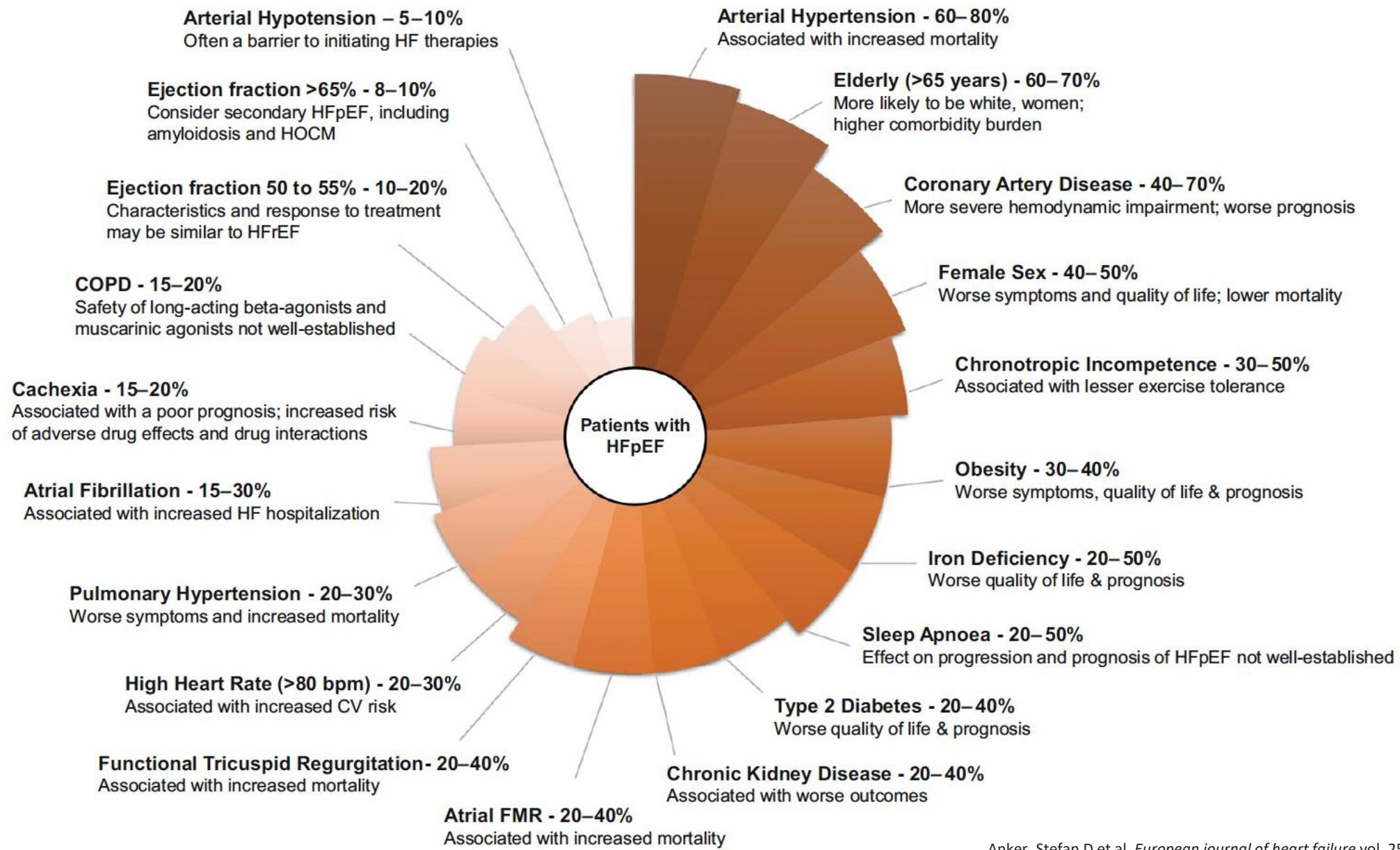
UNIÓN EUROPEA
Fondo Europeo
de Desarrollo Regional

*“Cuando creíamos que teníamos todas las respuestas,
de pronto,
cambiaron las preguntas”*



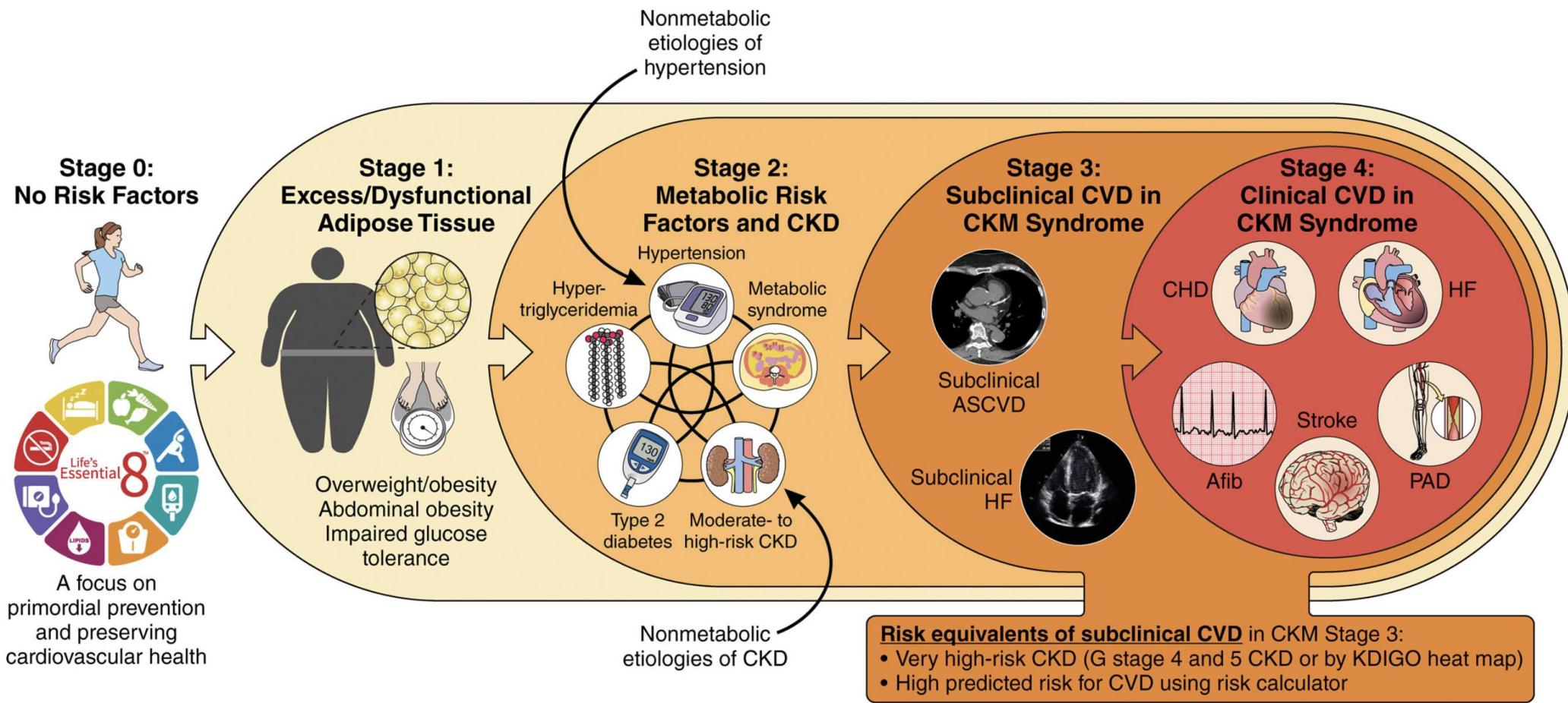
“When we thought we had all the answers, suddenly, all the questions changed”

MARIO BENEDETTI



Anker, Stefan D et al. *European journal of heart failure* vol. 25,7 (2023)

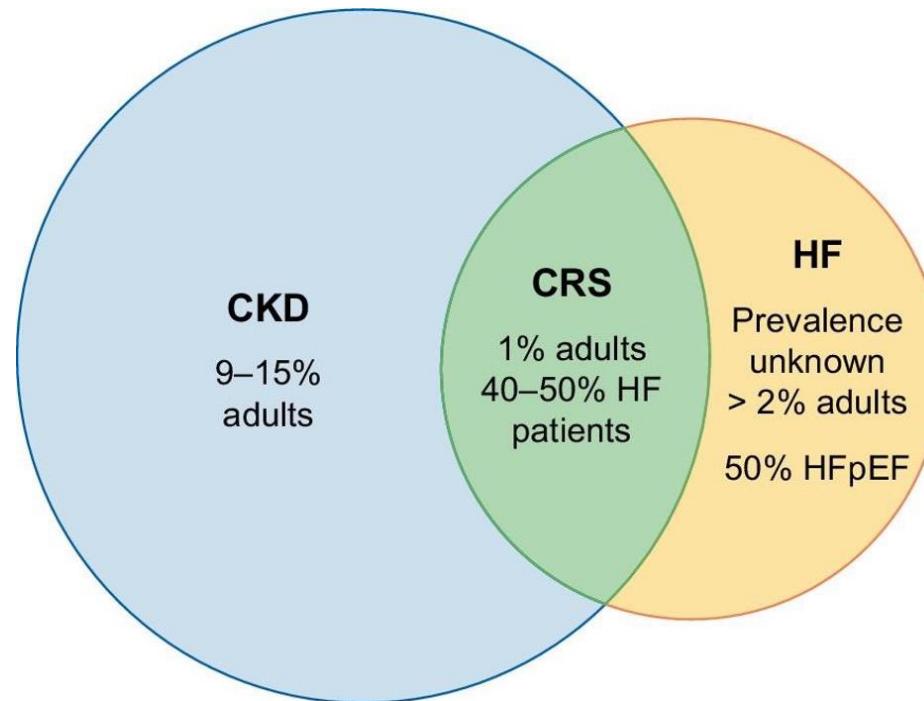
Cardiovascular – Kidney – Metabolic Syndrome



Ndumele et al. Circulation. Volume 148, 20, November 2023

Cronic kidney disease (CKD)

High prevalence 40-45 %



Therapies

Prognosis

Table 4 Initiation of heart failure drugs in relation to baseline chronic kidney disease status

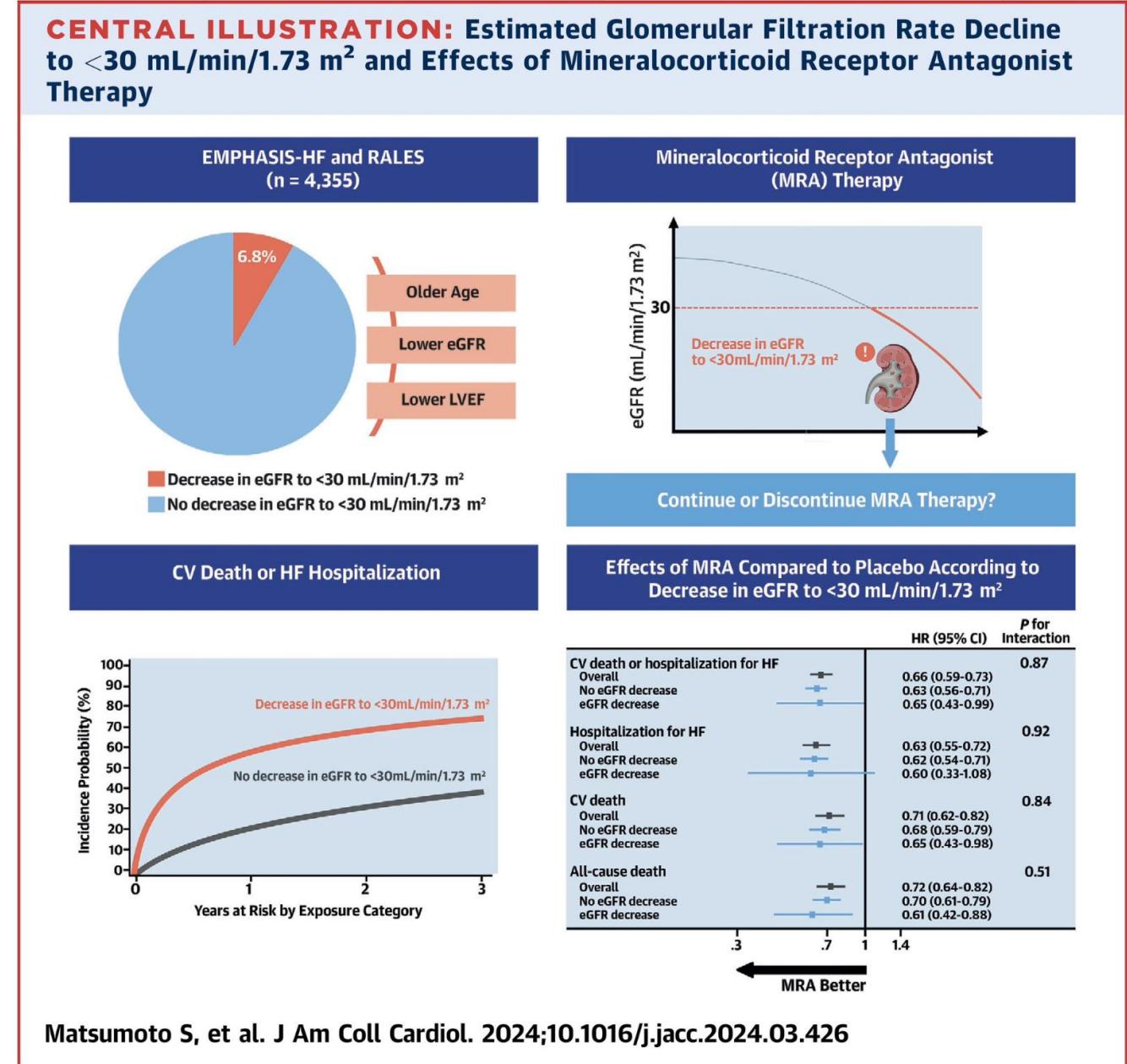
Drug	Evidence across GFR strata according to baseline eGFR enrolment criteria				Acute drop GFR	Impact on GFR slope in HF trial	CKD treatment interaction	Treatment effect with CKD
	ESKD	15–30	30–60	>60				
ACE-I/ARB	Moderate evidence if dialysis, weak evidence if not on dialysis				Yes	No (beneficial effect of around 1–2 ml/min/1.73 m ² per year in CKD trials)	No	Relative benefit: ~ Absolute benefit: ↑
Beta-blockers					No	No	Yes (potentially but some conflicting results)	Relative benefit: ~ Absolute benefit: ↑
MRA					Yes	No	No	Relative benefit: ~ Absolute benefit: ↑
ARNI					Yes	Yes (around 0.5 ml/min/1.73 m ² per year)	No	Relative benefit: ~ Absolute benefit: ↑
SGLT2-i		>20			Yes	Yes (around 1–2 ml/min/1.73 m ² per year)	No	Relative benefit: ~ Absolute benefit: ↑
Ivabradine					No	No	No	Relative benefit: ~ Absolute benefit: ↑
Vericiguat					No	No	No	Relative benefit: ~ Absolute benefit: ↑
Omecamtiv mecarbil					No	No	No	Relative benefit: ~ Absolute benefit: ↑

A decrease in eGFR over time does not automatically mean RAASi/SGLT2-i need to be downtitrated or discontinued

Mineralocorticoid Receptor Antagonist

Conclusions:

Because patients experiencing a decrease in **eGFR to <30 mL/min/1.73 m²** are at very high risk, the *absolute risk reduction with an MRA in these patients is large* and this decline in eGFR **should not automatically lead to treatment discontinuation**

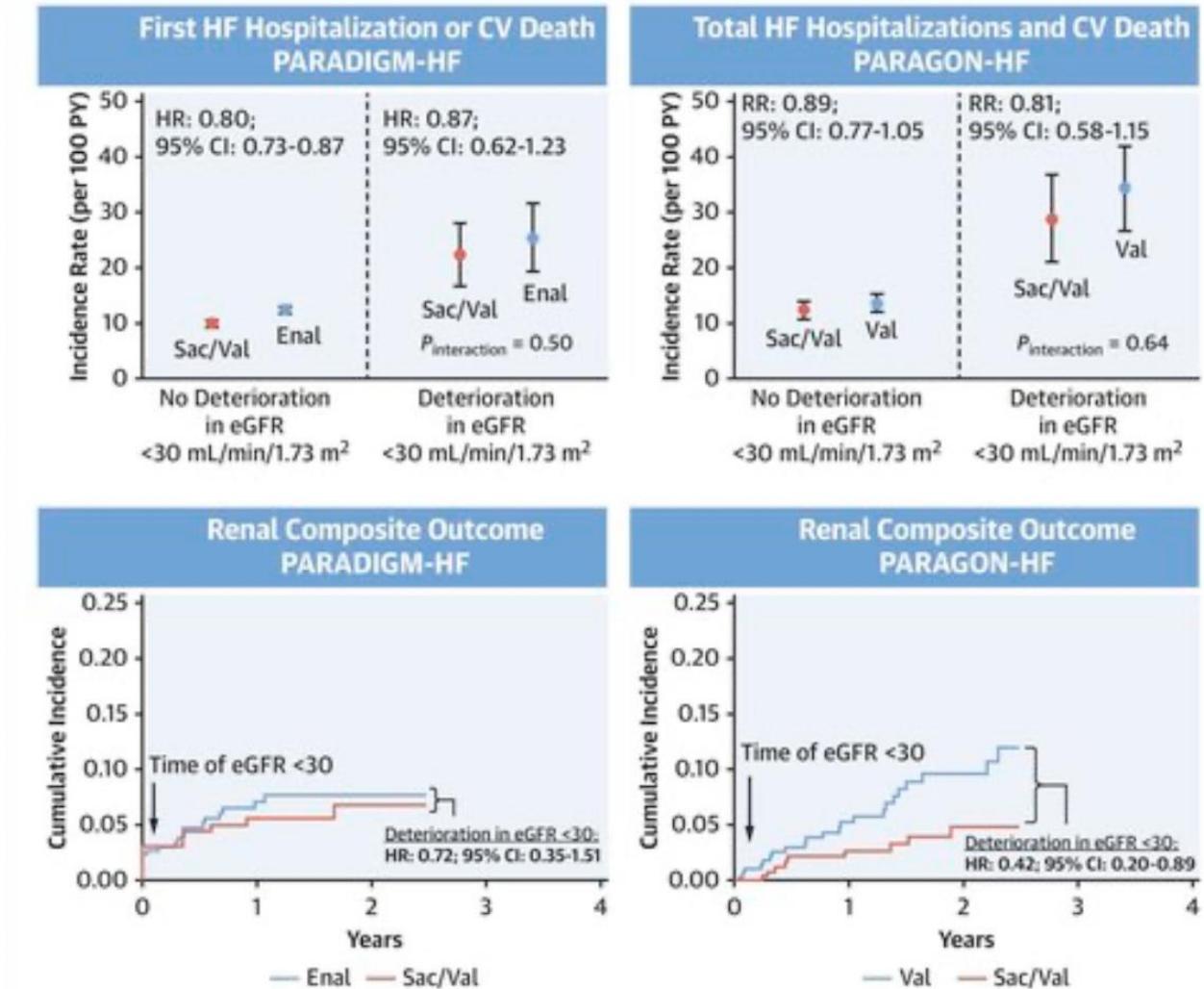


Sacubitril/Valsartan

Conclusions: Patients experiencing deterioration of kidney function eGFR < 30 mL/min/1.73 m², faced high risk of cardiovascular and kidney disease outcomes.

Continuation of *sacubitril/valsartan was associated with persistent clinical benefit and no incremental safety risk.*

CENTRAL ILLUSTRATION: Treatment Effect of Sacubitril/Valsartan on CV and Renal Outcomes in Patients With eGFR Deterioration to <30 mL/min/1.73 m²



Chatur S, et al. J Am Coll Cardiol HF. 2024;10:1016/j.jchf.2024.03.014

CKD & Diabetes: *promorbidity*

IECA/ARAI

iSGLT2

Finerenona

Recommendation Table 4 — Recommendations for the prevention of heart failure in patients with type 2 diabetes mellitus and chronic kidney disease

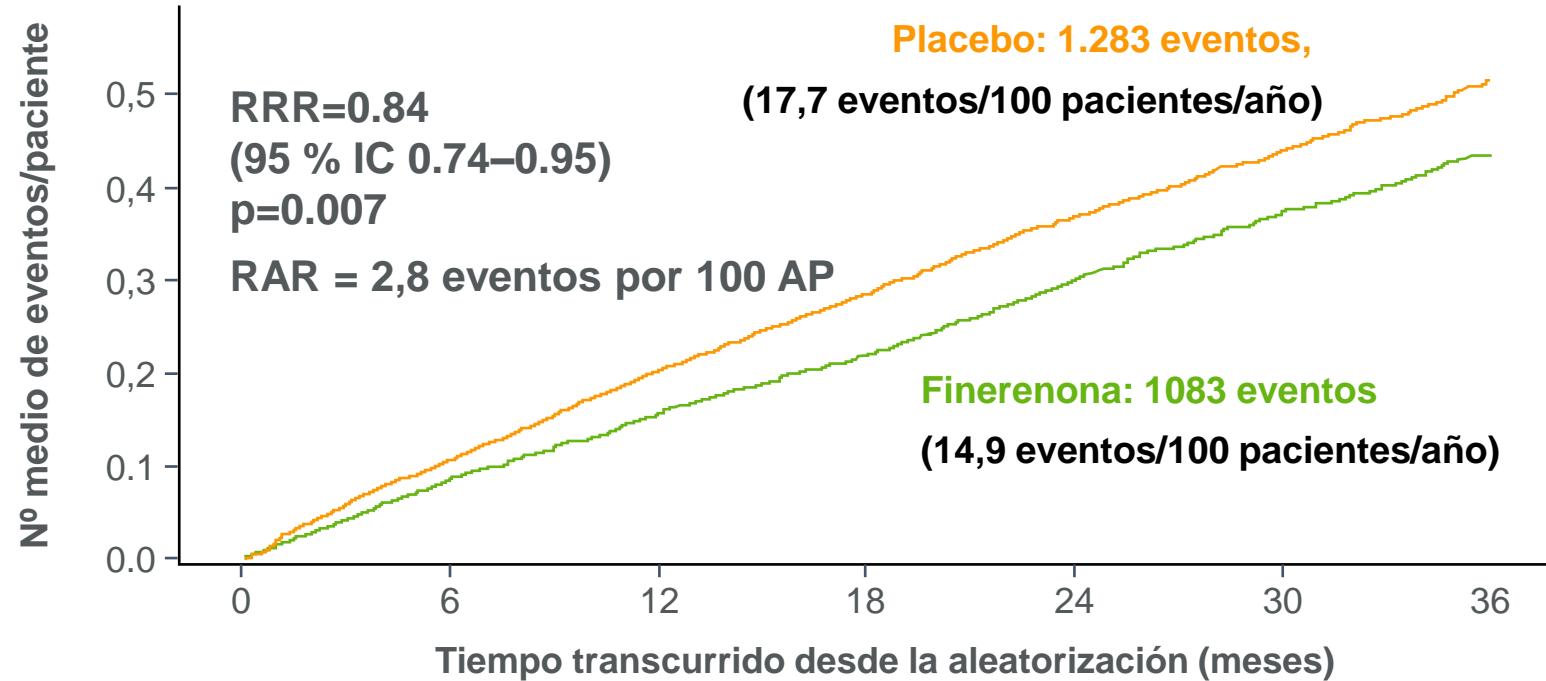
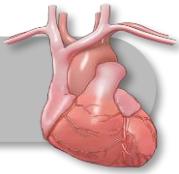
Recommendations	Class ^a	Level ^b
In patients with T2DM and CKD, ^c SGLT2 inhibitors (dapagliflozin or empagliflozin) are recommended to reduce the risk of HF hospitalization or CV death. ^{5,7,35}	I	A
In patients with T2DM and CKD, ^c finerenone is recommended to reduce the risk of HF hospitalization. ^{10,11,34,40}	I	A

© ESC 2023

McDonagh T, Metra M et al. European Heart Journal (2023) 00, 1–13

Finerenona demostró reducción relativa del riesgo del 16 % en la variable combinada de muertes CV y episodios totales de descompensación por IC

Variable principal eficacia: muertes CV y episodio de descompensación de IC

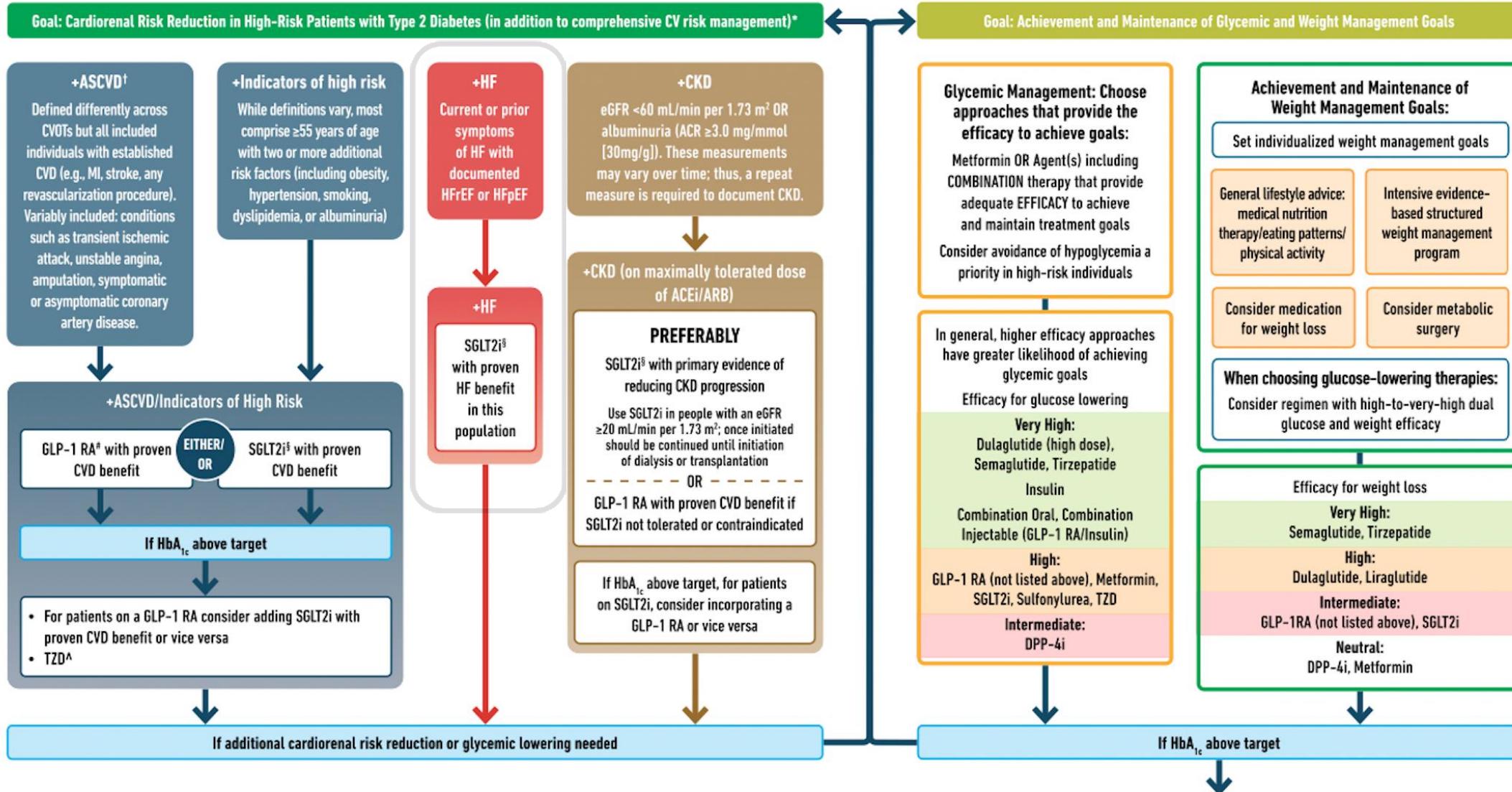


AP: años-paciente; CV: cardiovascular; IC: insuficiencia cardíaca; IdC: intervalo de confianza; RAR: reducción absoluta del riesgo; RRR = reducción de riesgo relativo.

Solomon S y col. N Engl J Med. 1 de septiembre de 2024. Doi: 10.1056 / NEJMoa2407107

USE OF GLUCOSE-LOWERING MEDICATIONS IN THE MANAGEMENT OF TYPE 2 DIABETES

HEALTHY LIFESTYLE BEHAVIORS; DIABETES SELF-MANAGEMENT EDUCATION AND SUPPORT (DSMES); SOCIAL DETERMINANTS OF HEALTH (SDOH)



HFrEF therapy: combining SGLT2i and incretins

Practical considerations for combination therapy



Potential for complementary benefits
on global treatment priorities



Prioritize SGLT2i given established benefits
on HF hospitalization and death



Caution with incretin-based therapies
in recently decompensated HF



Escalate incretin-based therapies
to maximally tolerated dose



Continue therapy indefinitely to prevent
disease relapse or progression

Potential barriers and research priorities



Limited data on traditional
clinical outcomes



Cost



Polypharmacy



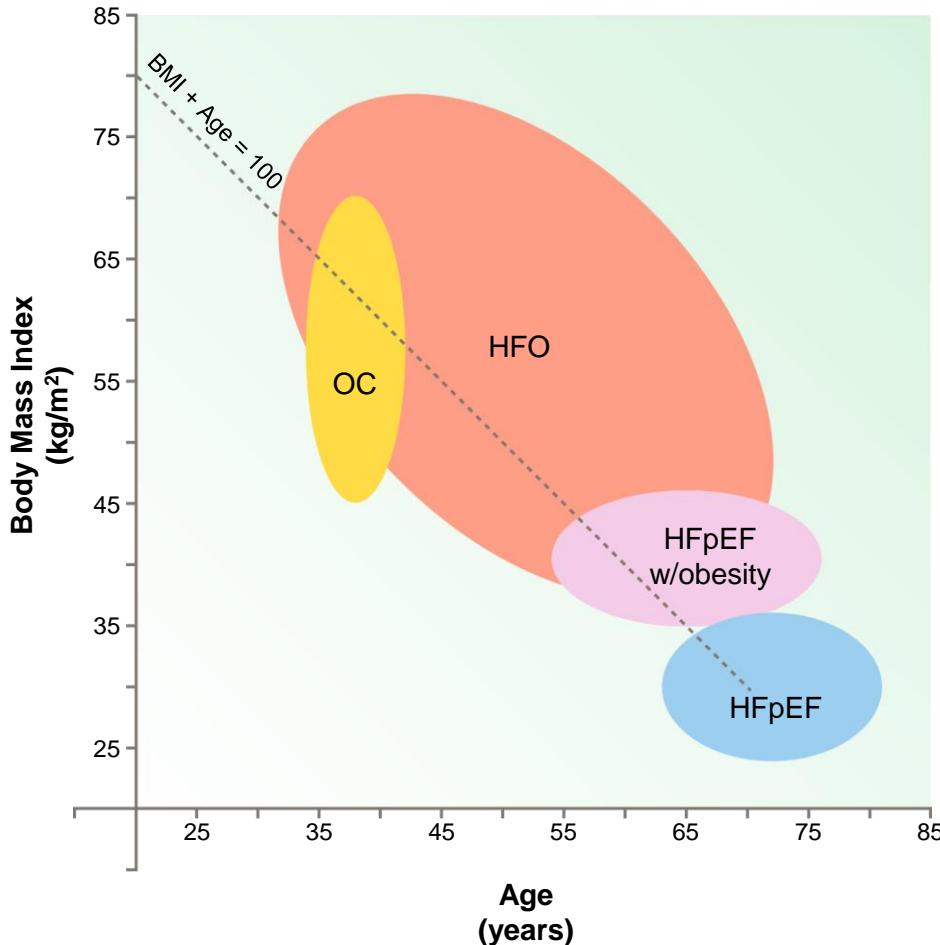
Regimen complexity



Paucity of data in important
subpopulations

Ostrominski, John W et al. *European heart journal* vol. 45,30 (2024)

Obesity Body Weight Loss May Reverse HFrEF If Treated Early

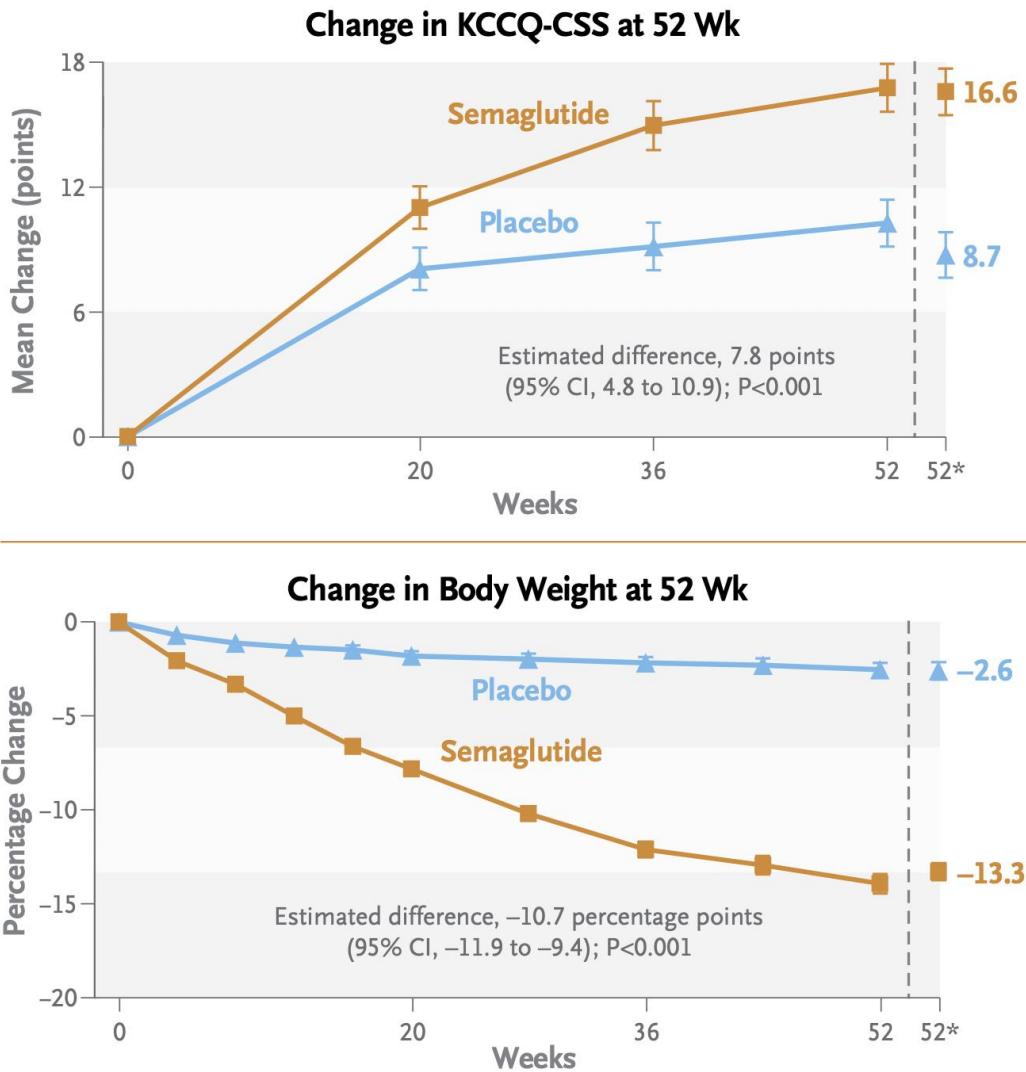


Lifetime cumulative risk for HF of obesity (HFO) increases when “obesity-years” ($BMI + age$) reaches 100

Much of the cardiac pathology of HFrEF with obesity may be reversible with adequate weight reduction

Resilience in younger HFO may allow regression of cardiac abnormalities with 20-35% weight loss

BMI=Body Mass Index; HFrEF=Heart Failure With Preserved Ejection Fraction; HFO=Heart Failure Obesity; OC=Obesity Cardiomyopathy.
Chockalingam A. *Front Cardiovasc Med.* 2022;9:821829.



The NEW ENGLAND JOURNAL of MEDICINE

RESEARCH SUMMARY

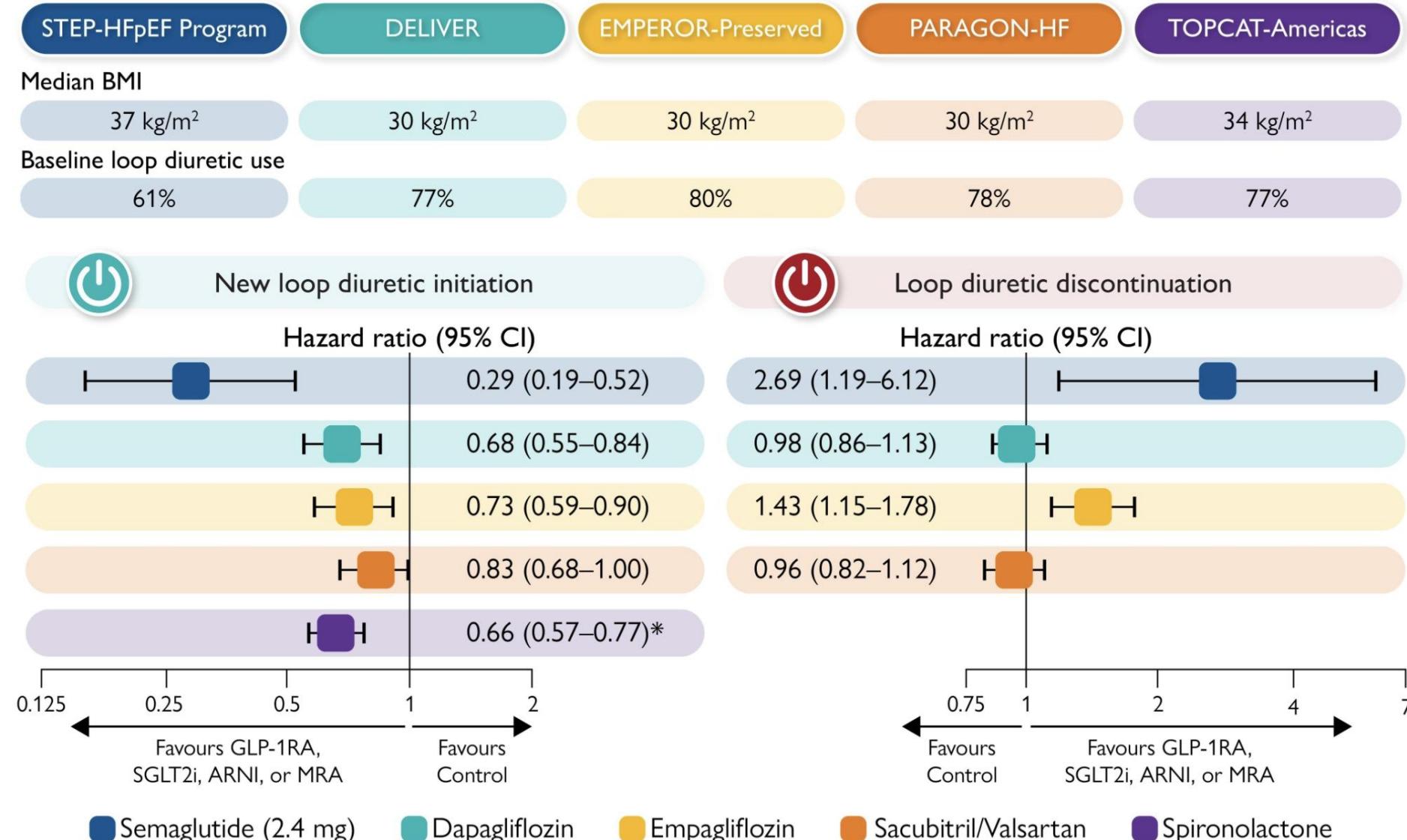
Semaglutide in Patients with Heart Failure with Preserved Ejection Fraction and Obesity

Kosiborod MN et al. DOI: 10.1056/NEJMoa2306963

CONCLUSIONS

In adults with heart failure with preserved ejection fraction and obesity, once-weekly treatment with semaglutide was associated with greater reductions in heart failure-related symptoms and physical limitations and greater weight loss than placebo over 52 weeks.

Effects of selected pharmacotherapies on loop diuretic use in recent HFmrEF/HFpEF trials



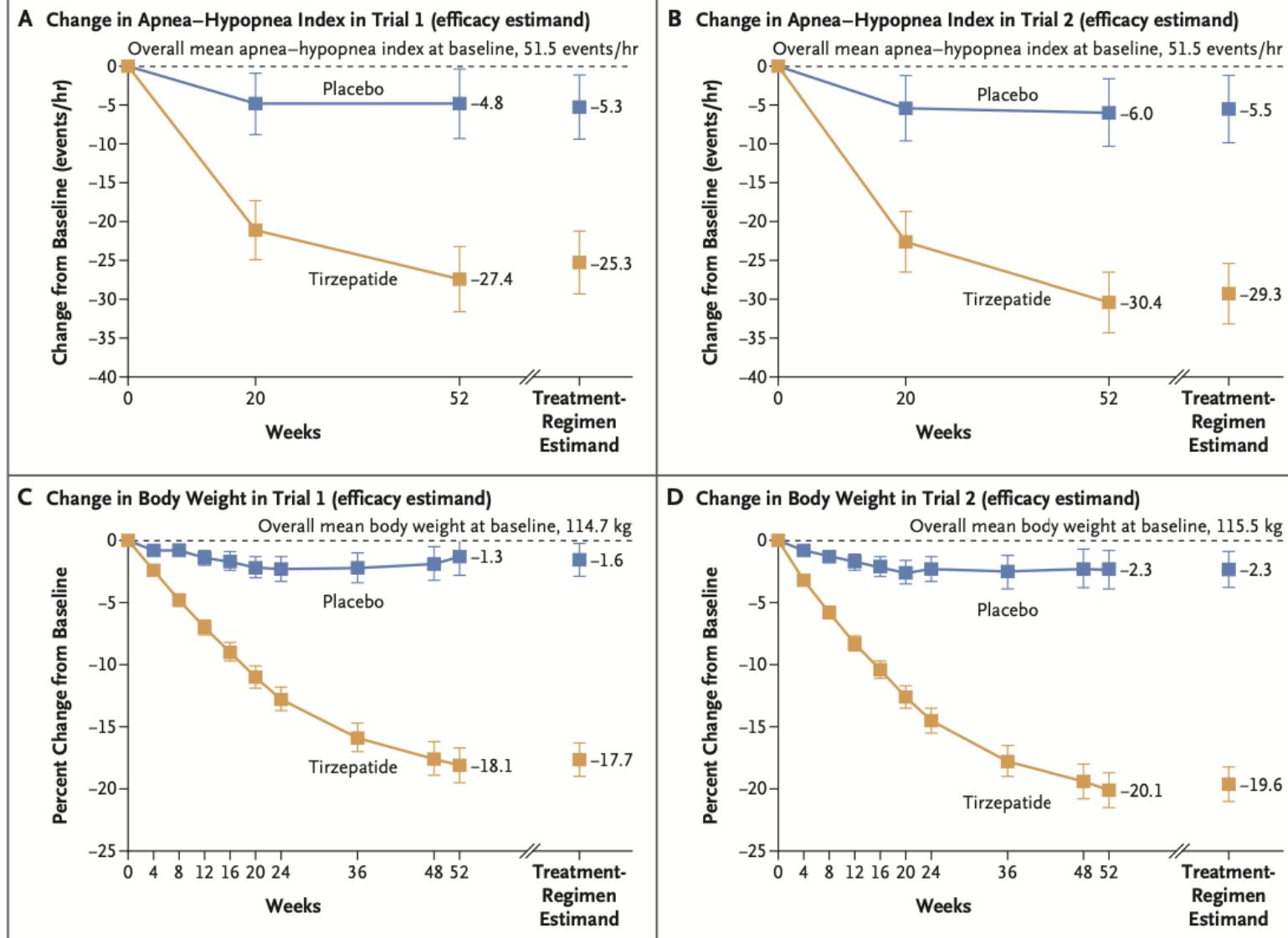
ORIGINAL ARTICLE

Tirzepatide for the Treatment of Obstructive Sleep Apnea and Obesity

Atul Malhotra, M.D., Ronald R. Grunstein, M.D., Ph.D., Ingo Fietze, M.D., Terri E. Weaver, Ph.D., Susan Redline, M.D., M.P.H., Ali Azarbarzin, Ph.D., Scott A. Sands, Ph.D., Richard J. Schwab, M.D., Julia P. Dunn, M.D., Sujatro Chakladar, Ph.D., Mathijs C. Bunck, M.D., Ph.D., and Josef Bednarik, M.D., for the SURMOUNT-OSA Investigators*

CONCLUSIONS

Among persons with moderate-to-severe obstructive sleep apnea and obesity, tirzepatide reduced the **AHI**, **body weight**, hypoxic burden, hsCRP concentration, and **systolic blood pressure** and improved **sleep-related patient-reported outcomes**.



Sleep-disordered breathing

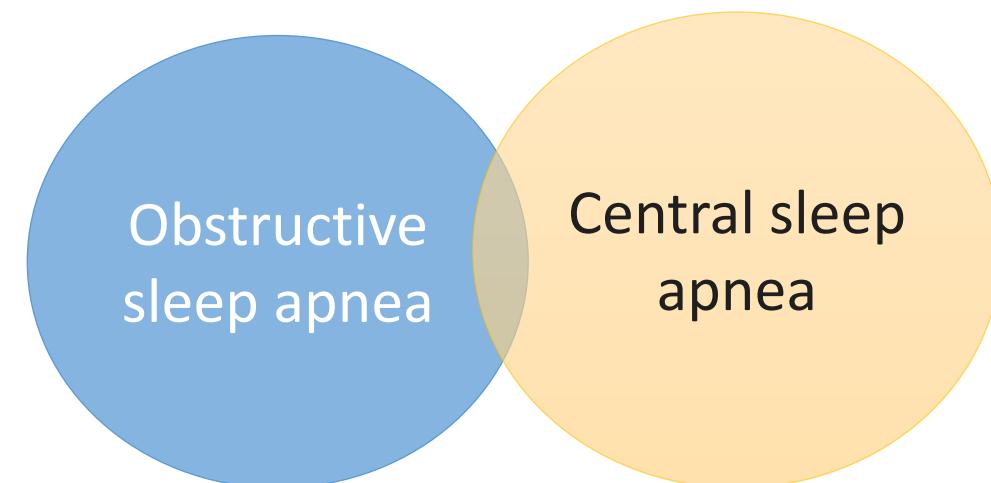


Frequent entity with a bidirectional relationship.

Coexist in 1/3 of patients with HF.

Worse prognosis.

Suspected diagnosis (daytime sleepiness, snoring, headache, obesity):
polysomnography.



Frailty

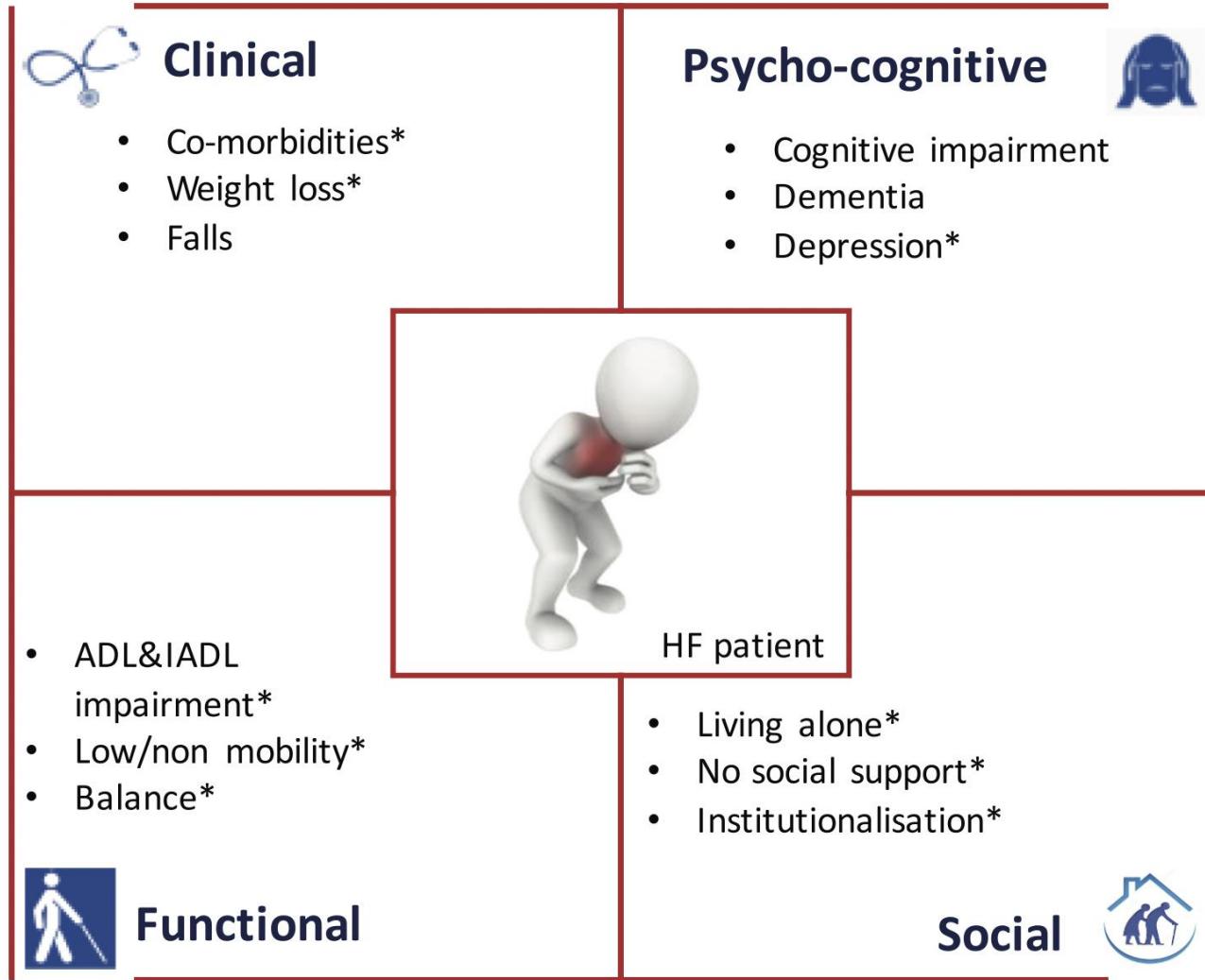


Figure 1 The four main domains – clinical, physical-functional, cognitive-psychological, and social – defining the Heart Failure Association (HFA) Frailty Score. Reversible and/or treatable variables are identified by asterisks. ADL, activities of daily living; HF, heart failure; IADL, instrumental activities of daily living. Adapted from Gorodeski et al.⁹

Anemia & iron deficiency



ESC

European Society
of CardiologyEuropean Heart Journal (2023) 00, 1–13
<https://doi.org/10.1093/eurheartj/ejad195>

ESC GUIDELINES

2023 Focused Update of the 2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure

McDonagh T, Metra M et al. European Heart Journal (2023) 00, 1–13

Deficit de hierro:

Ferritina < 100 ng/ml

Ferritina 100-300 Saturacion <20 %

Recommendation Table 5 — Recommendations for the management of iron deficiency in patients with heart failure

Recommendations	Class ^a	Level ^b
Intravenous iron supplementation is recommended in symptomatic patients with HFrEF and HFmrEF, and iron deficiency, to alleviate HF symptoms and improve quality of life. ^c ^{12,41,47–49}	I	A
Intravenous iron supplementation with ferric carboxymaltose or ferric derisomaltose should be considered in symptomatic patients with HFrEF and HFmrEF, and iron deficiency, to reduce the risk of HF hospitalization. ^c ^{12,41,43–46}	IIa	A
It is recommended that all patients with HF be periodically screened for anaemia and iron deficiency with a full blood count, serum ferritin concentration, and TSAT.	I	C

^cMost of the evidence refers to patients with left ventricular ejection fraction ≤45%.

Hypertension

Recommendation Table 27 — Recommendations for managing hypertension in patients with cardiac disease

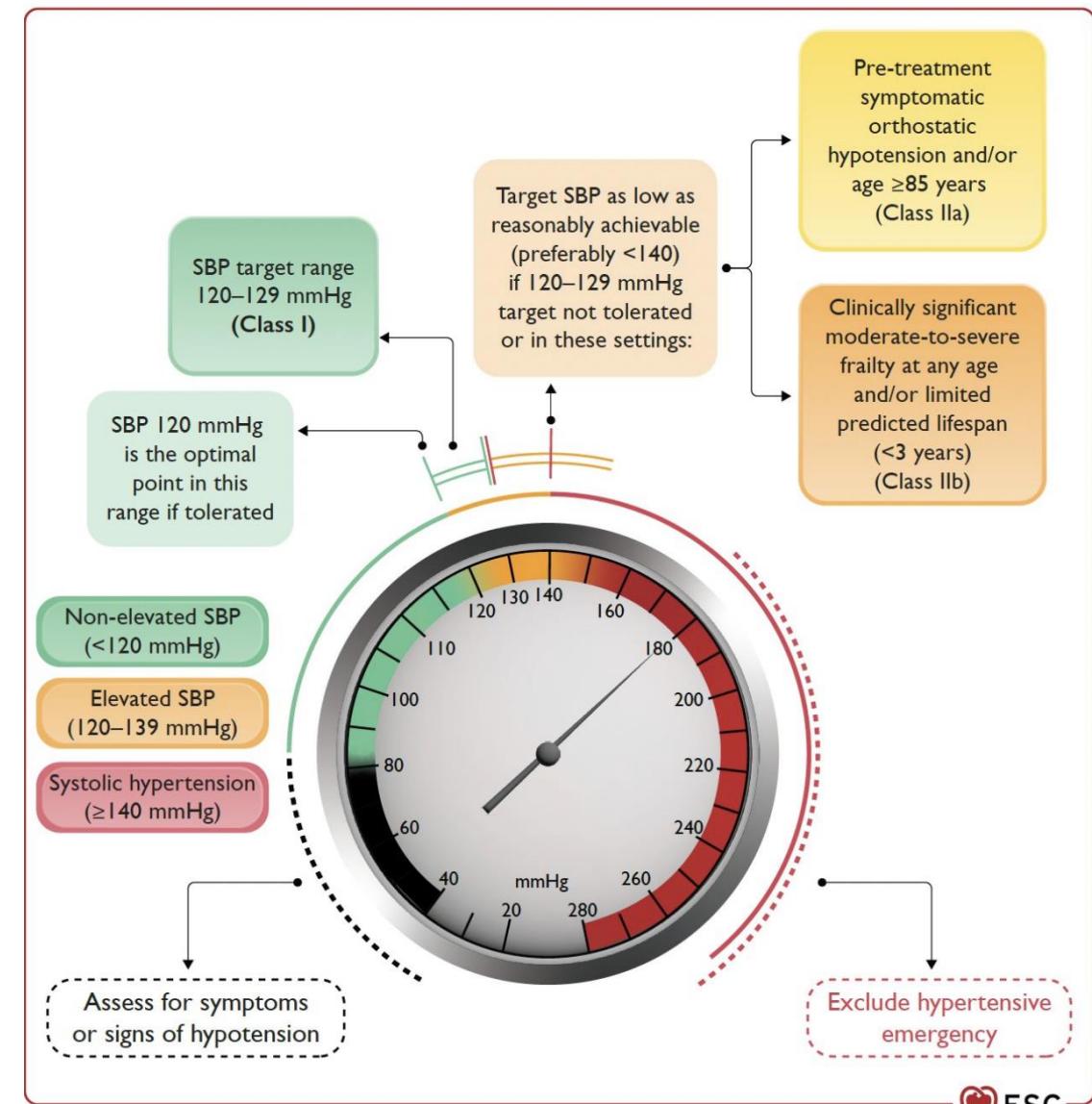
In patients with symptomatic HFrEF/HFmrEF, the following treatments with BP-lowering effects are recommended to improve outcomes: ACE inhibitors (or ARBs if ACE inhibitors are not tolerated) or ARNi, beta-blockers, MRAs, and SGLT2 inhibitors.⁷⁹⁵

I	A
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In hypertensive patients with symptomatic HFpEF, SGLT2 inhibitors are recommended to improve outcomes in addition to their modest BP-lowering properties.⁷⁹⁵

I	A
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Non-dihydropyridine CCBs should not be used



Comorbidities in HF

TAKE-HOME MESSAGE

- Accurate characterization.
- Phenotypic approach.
- Early intervention.
- Pharmacological and non-pharmacological treatment.