



Where did we get?

4th Advances in Heart Failure 2021

Comorbidities in HFpEF:

Focus on obesity and diabetes

João R. Agostinho 2021

J.R. Agostinho

TAKE HOME MESSAGES

- Diabetes and obesity are amongst the most prevalent and dominant comorbidities in patients with
- Obesity and diabetes may not be simple comorbidities in HFPEF as they may be implicated in HFPEF
- As for now we are still trying to understandd how to address obesity in HFpEF. We do know that it is
- important to preserve lean mass.
- Diabetes severely impacts HFpEF prognosis and has to be promptly addressed.
- SGLT2 inhibitors efficacy in HFpEF patients events reduction may be related to fact that they counteract the effects of some metabolic and hemodynamic active molecules that are either overexpressed in diabetes and obesity.





Where did we get?

7th Avances in Heart Failure Insuficiência Cardíaca em Portugal: Como chegamos aqui?

Moderadores: Ana Abreu, Filipe Macedo

- Obesidade Duarte Pignatelli
- Diabetes Gonçalo Proença
- Hipertensão Arterial Rosa Pinho
- Dos Fatores de Risco à ICFEP João Agostinho

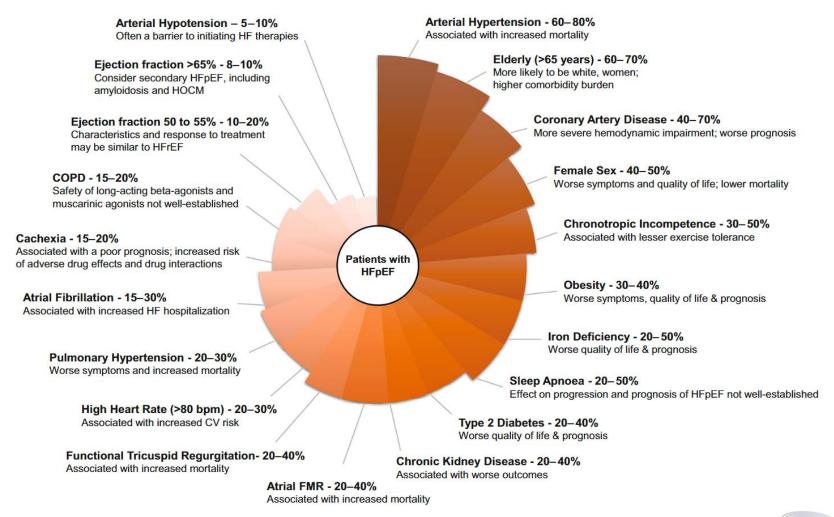
Discussão: Mónica Pedro, Paulo Santos

SGLT2 inhibitors efficacy in HFpEF patients events reduction may be related to fact that they counteract the effects of some metabolic and hemodynamic active molecules that are either overexpressed in diabetes and obesity.





HFpEF risk factors





Where are we now?



ICFE reduzida

n = 23

0,35 (0,23 – 0,55)%

ICFE ligeiramente reduzida

n = 52

0,97 (0,49 – 1,91)%

ICFE preservada

n = 1061

15,22 (13,73 – 16,84)**%**

INSUFICIÊNCIA CARDÍACA

n = 1136

16,54 (14,88 – 18,35)**%**

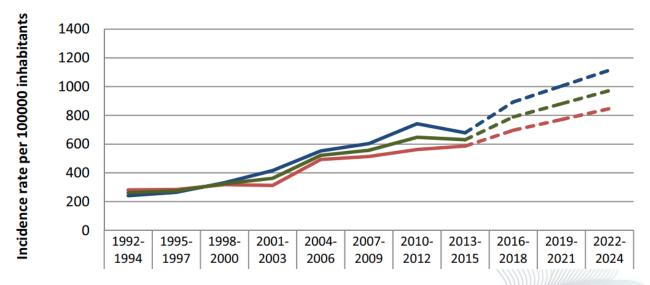


Hypertensio n 36%

Characteristics	Total (n=4910), % (95% CI)
Age group	
25-44 years	12.1 (10.1-14.3)
45-54 years	35.8 (31.3-40.6)
55-64 years	58.4 (51.4-65.0)
65-74 years	71.3 (65.7-76.4)

Diabetes: 9.9% Prediabetes: 16.7%

Diabetes incidence rate between 1992-2015 and projections until 2024

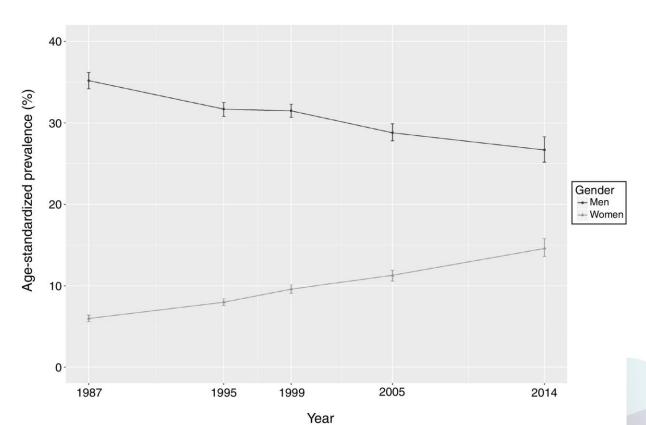




Chronic Kidney Disease

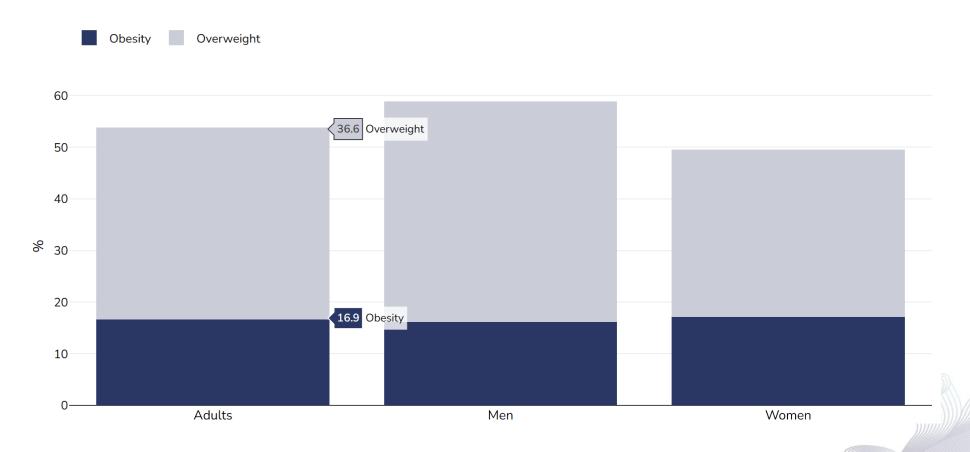


Smoking 20.7%



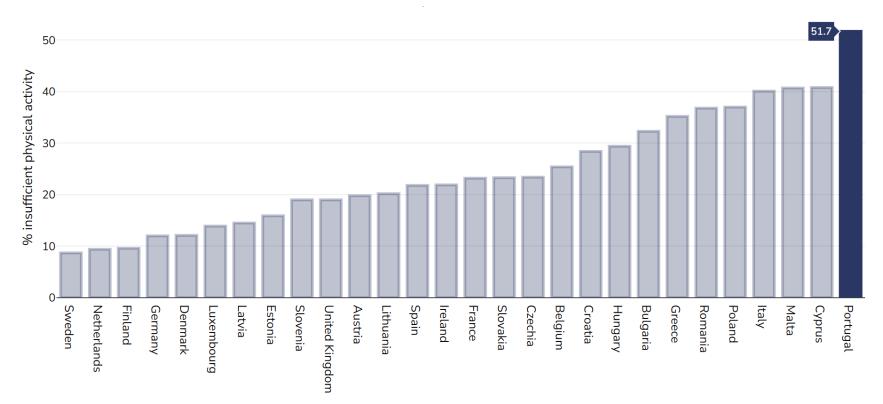


Obesity





Insufficient

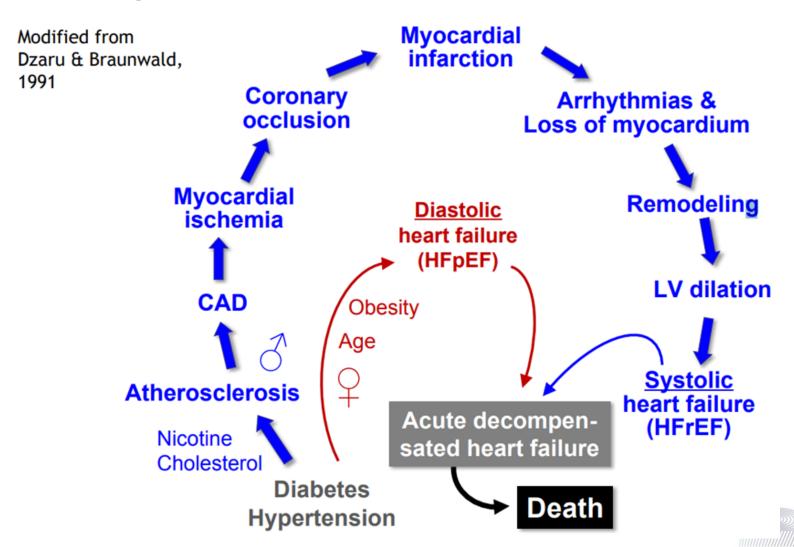








Classical cause-consequence theories





Nowadays, can we differentiate risk factors, mechanisms, phenotypes and complications?

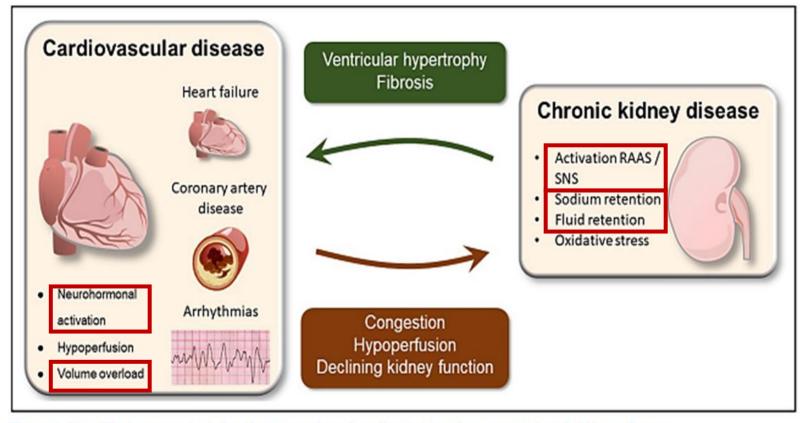


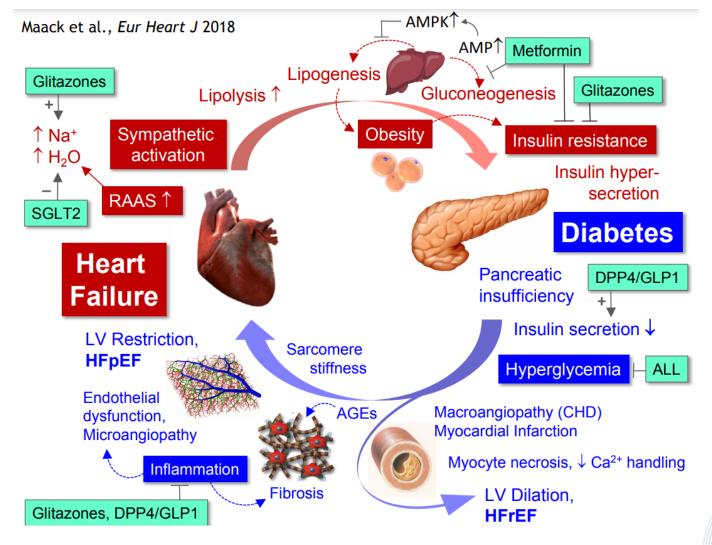
Figure 1. Simplified scheme depicting the interaction of cardiovascular disease and chronic kidney disease.

RAAS indicates renin-angiotensin-aldosterone; and SNS, sympathetic nerve system.



Nowadays, can we differentiate risk factors, mechanisms, phenotypes and

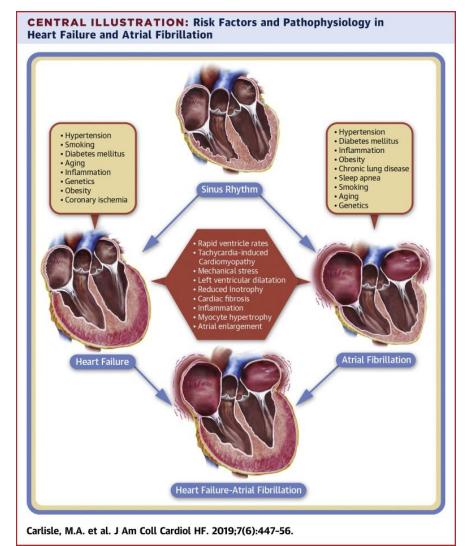
complications?





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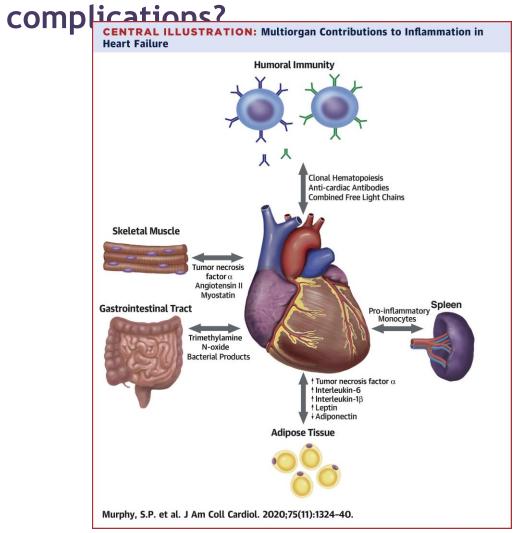
complications?

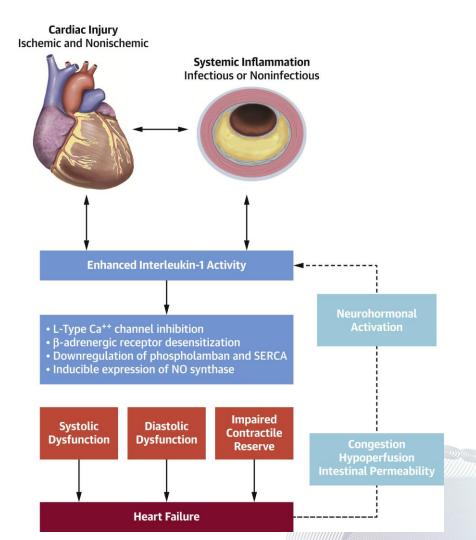






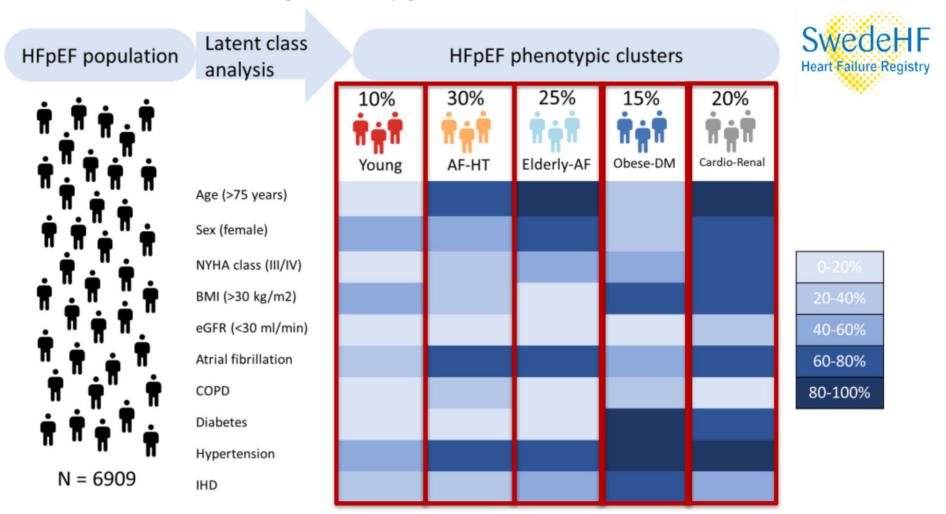
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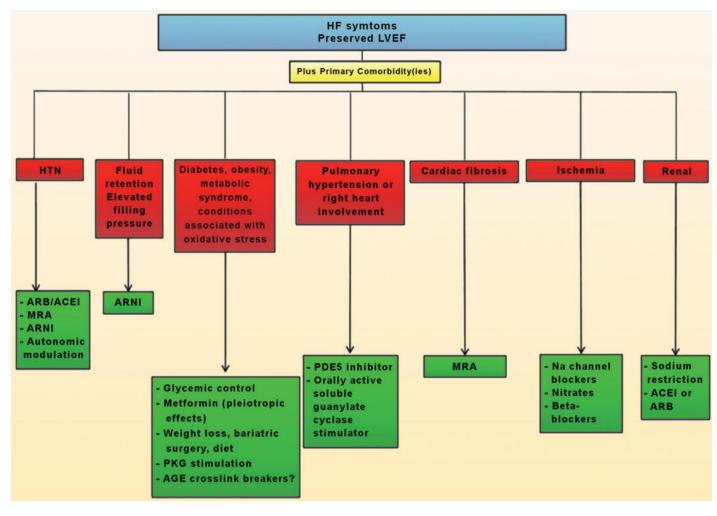
Going from risk factors to phenotypes





Have we been targeting phenotypes before phenotypes were

defined?





Can we get out of here?



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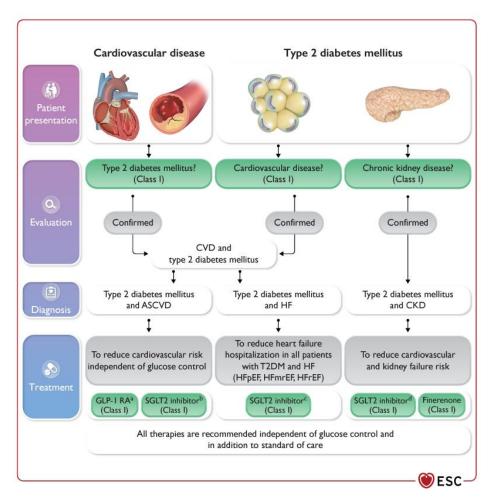
INSUFICIÊNCIA CARDÍACA

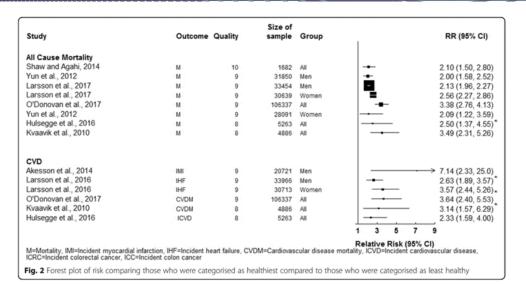
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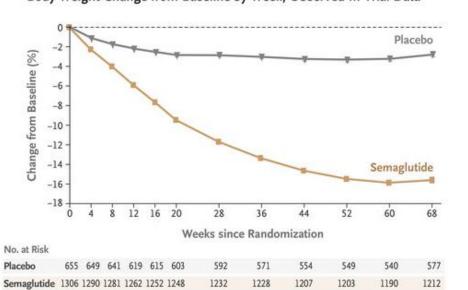


Can we get out of here?



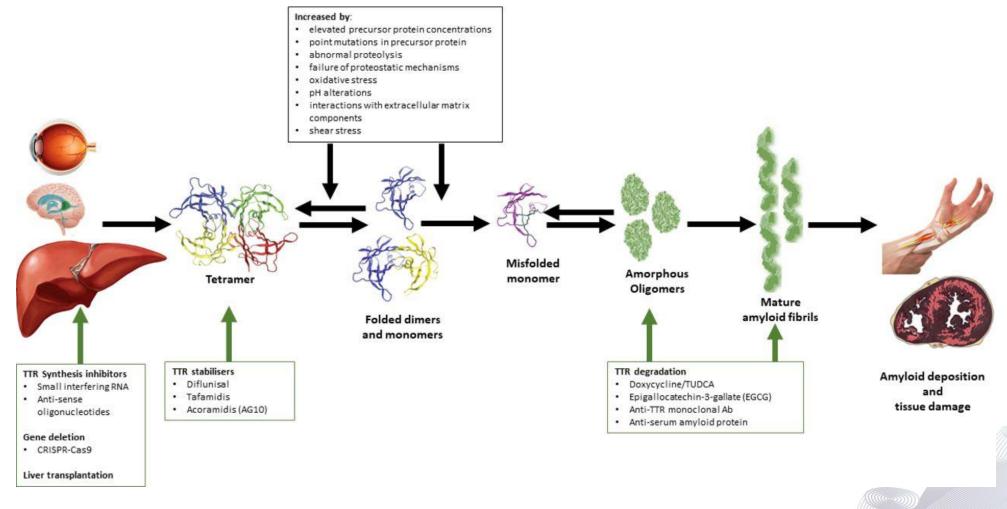


Body Weight Change from Baseline by Week, Observed In-Trial Data





Risk factors that we still can't control





Heart Failure

with Preserved

Ejection Fraction?

