th Advances in Heart Failure 2024

10 e 11 de Outubro

FACULDADE DE MEDICINA DA UNIVERSIDADE DO PORTO

Guia Prático de Abordagem da Insuficiência Cardíaca Aguda

• Estratégia diagnóstica e terapêutica na admissão

NEIC & GEIC

Elisabete Martins



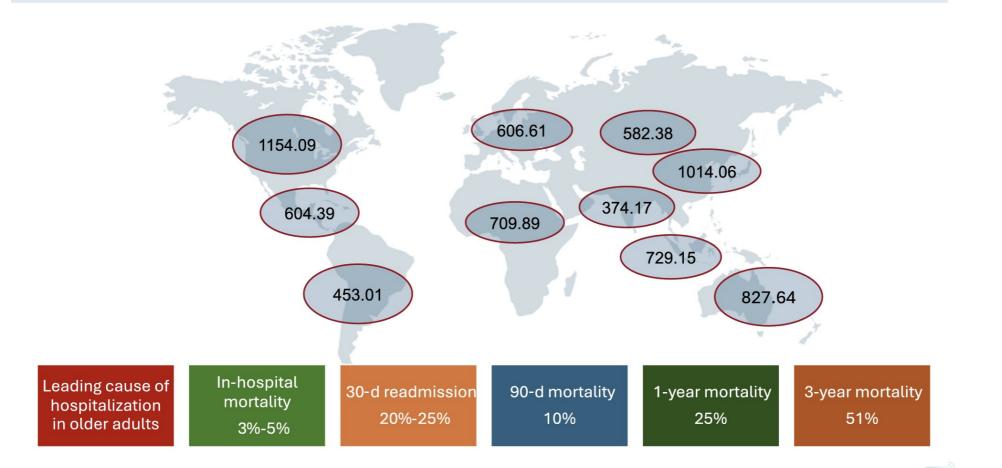
ACUTE HEART FAILURE

•New onset or worsening of symptoms and/or signs of heart failure requiring urgent medical assessment.

Patients need immediate HF-directed treatment and <u>frequently unplanned hospitalization</u>



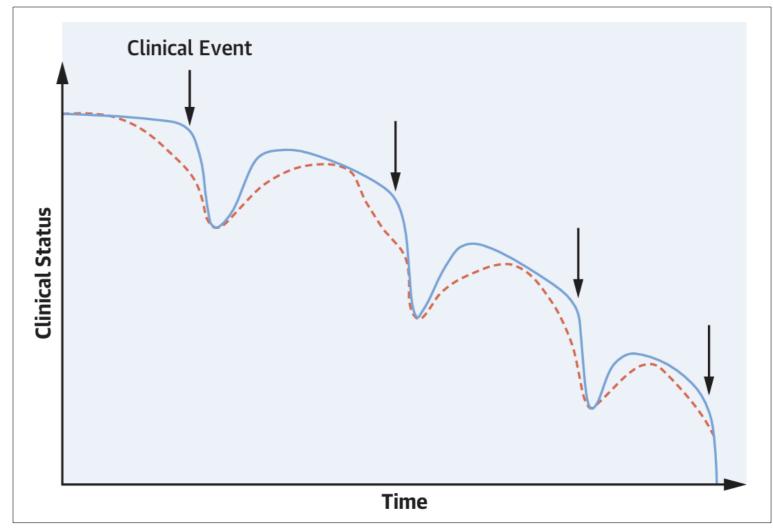
FIGURE 1 Global Burden of Heart Failure



Hospitalisation for worsening HF is a critical point in the disease trajectory and provides an opportunity to review and optimise HF therapies

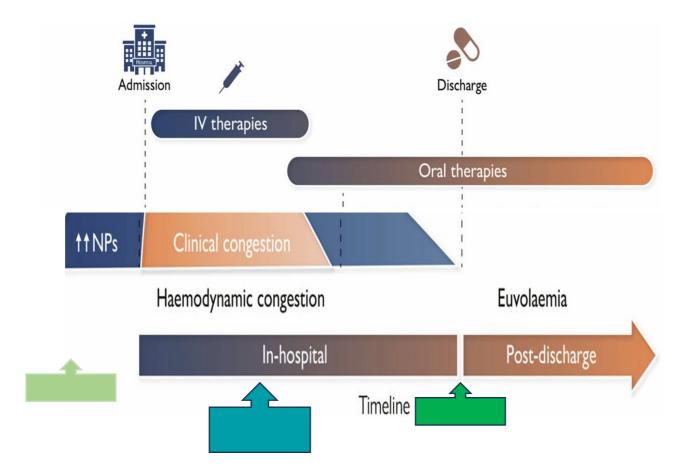
JACC Adv. 2024;3(9):101131

ACUTE HEART FAILURE AND PROGNOSIS



J Am Coll Cardiol. 2023;81(4):413-424.

Acute heart failure: *new evidence* changing the prognosis



Eur J Heart Fail. 2023;25(7):1115-1131.

ADMISSION (Immediate)

Journey of the hospitalized patient with heart failure

STABLE PHASE (Intermediate)

PRÉ-DISCHARGE AND TRANSITION OF CARE

Rapid diagnosis of Acute Heart Failure

Determine the clinical presentation

Identification of acute causes (or triggering factors)

Rapid initiation of treatment



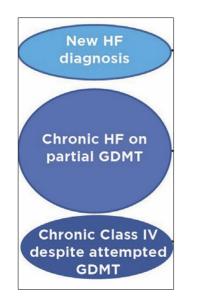
• Rapid diagnosis of Acute Heart Failure



Heart Failure Fast Track (triage) to reduce "door-to-furosemide time"

Manchester discriminators: *dyspnea, edema, hyper/hypotension, low SO2%*

Clinical presentations :



• Acute decompensated heart failure (50-70%)

(»Wet and Warm)

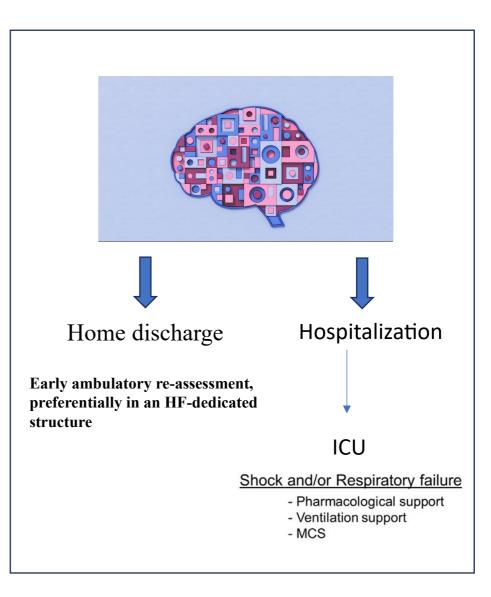
- Acute pulmonary oedema
- Isolated right ventricular failure
- Cardiogenic shock

• Assessment of severity, cause and response to immediate treatments

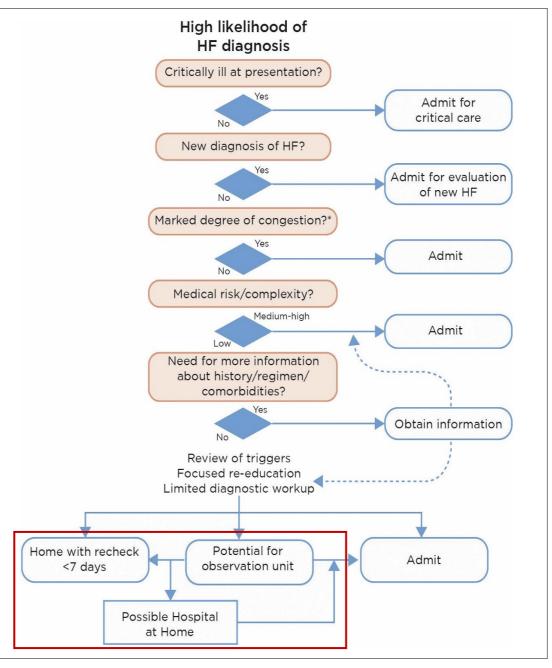
Care setting decision

Hospital-based strategies to support clinical decision-making and rapid follow-up?

Emergency Heart Failure Mortality Risk Grade (EHMRG)

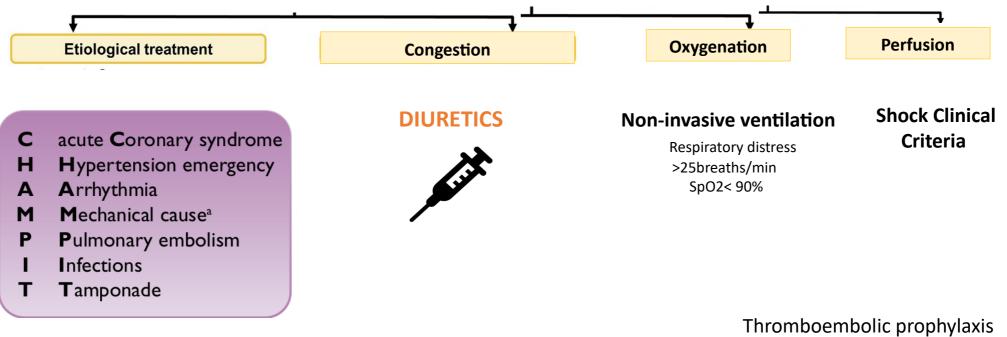


Care setting decision



*Marked leg edema, ascites, or scrotal or perineal edema may be clinical signs of marked congestion. The degree of radiographic and biochemical abnormalities may also indicate the degree of congestion

Initial management of AHF



(e.g. with LMWH)

Acute Coronary Syndromes

Uncontrolled hypertension

AF and other arrhythmias

Additional cardiac disease (e.g., endocarditis)

Acute infections (e.g., pneumonia, urinary tract)

Nonadherence with medication regimen or dietary intake

Anemia

Hyper- or hypothyroidism

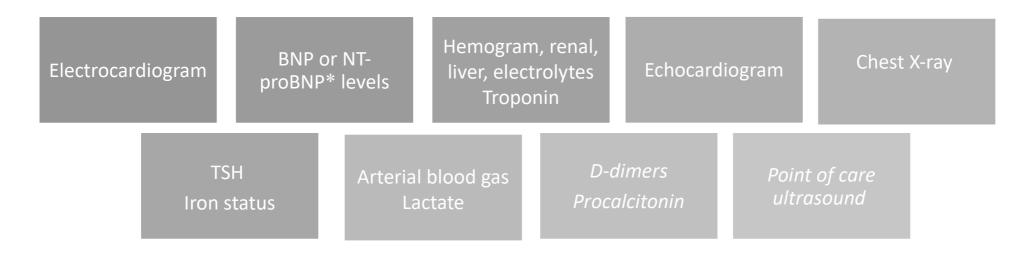
Medications that increase sodium retention (e.g., NSAID)

Medications with negative inotropic effect (e.g., verapamil)

 Common Factors Precipitating Acute HF

• First-line exams

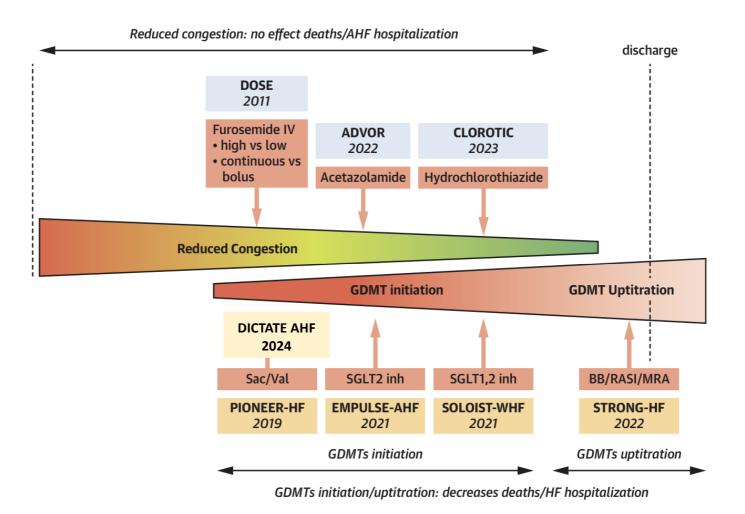
AHF diagnosis confirmation and identification of acute causes / triggering factors



*Rule-in values for the diagnosis of acute HF:

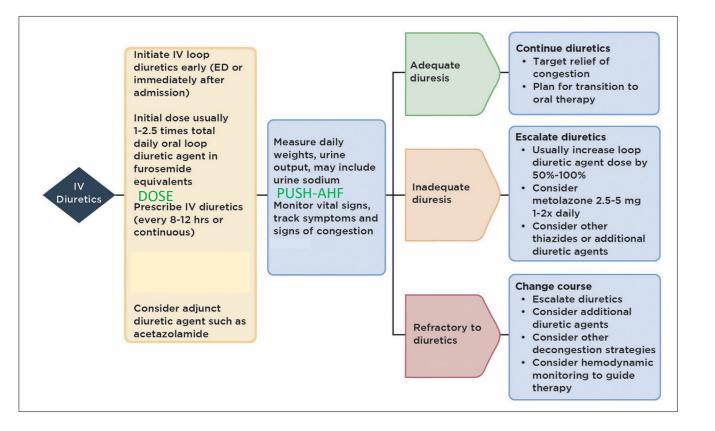
NT-proBNP >450 pg/mL if aged < 55 years; 900 pg/mL if aged between 55 and 75 years; >1800 pg/mL if aged >75 years

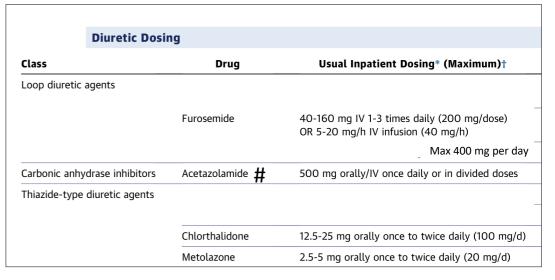
How to manage therapy: Randomized Clinical Trials



J Am Coll Cardiol. 2024;83(13):1243-1252.

How to manage diuretics

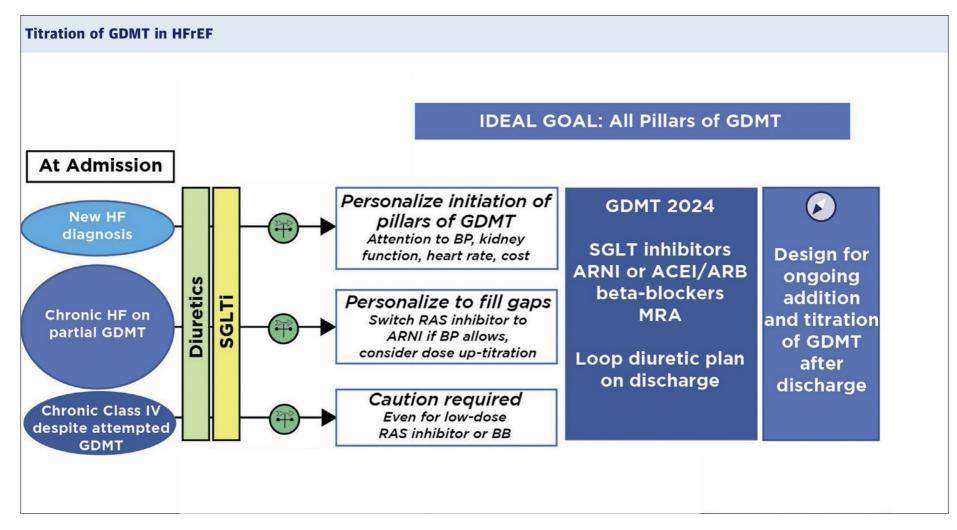




#Serum bicarbonate if used for longer duration

Am Coll Cardiol. 2024;84(13):1241-1267.

How to manage GDMT (HFrEF)



Lower blood pressure: first step may be a low dose of an ARB, with a potential switch to sacubitril/valsartan before discharge once a low dose of beta-blocker has been tolerated (starting with metoprolol 6.25mg or carvedilol 3.125mg twice per day)

Am Coll Cardiol. 2024;84(13):1241-1267.

How to manage SGLT inhibitors

Before initiating SGLT inhibitors:

- SBP of at least 100 mm Hg
- No inotropic support for at least 24 hours
- No symptoms of hypotension
- No hypovolemia
- No increase in IV diuretic dose in the previous 6 hours
- No IV vasodilators
- No T1 DM

After initiating SGLT inhibitors

• In T2DM - Glucose levels reassessed

How to assess <u>congestion</u> and use "decongestive" therapies?

How to assess <u>hypoperfusion</u> and use vasoactive therapies?