

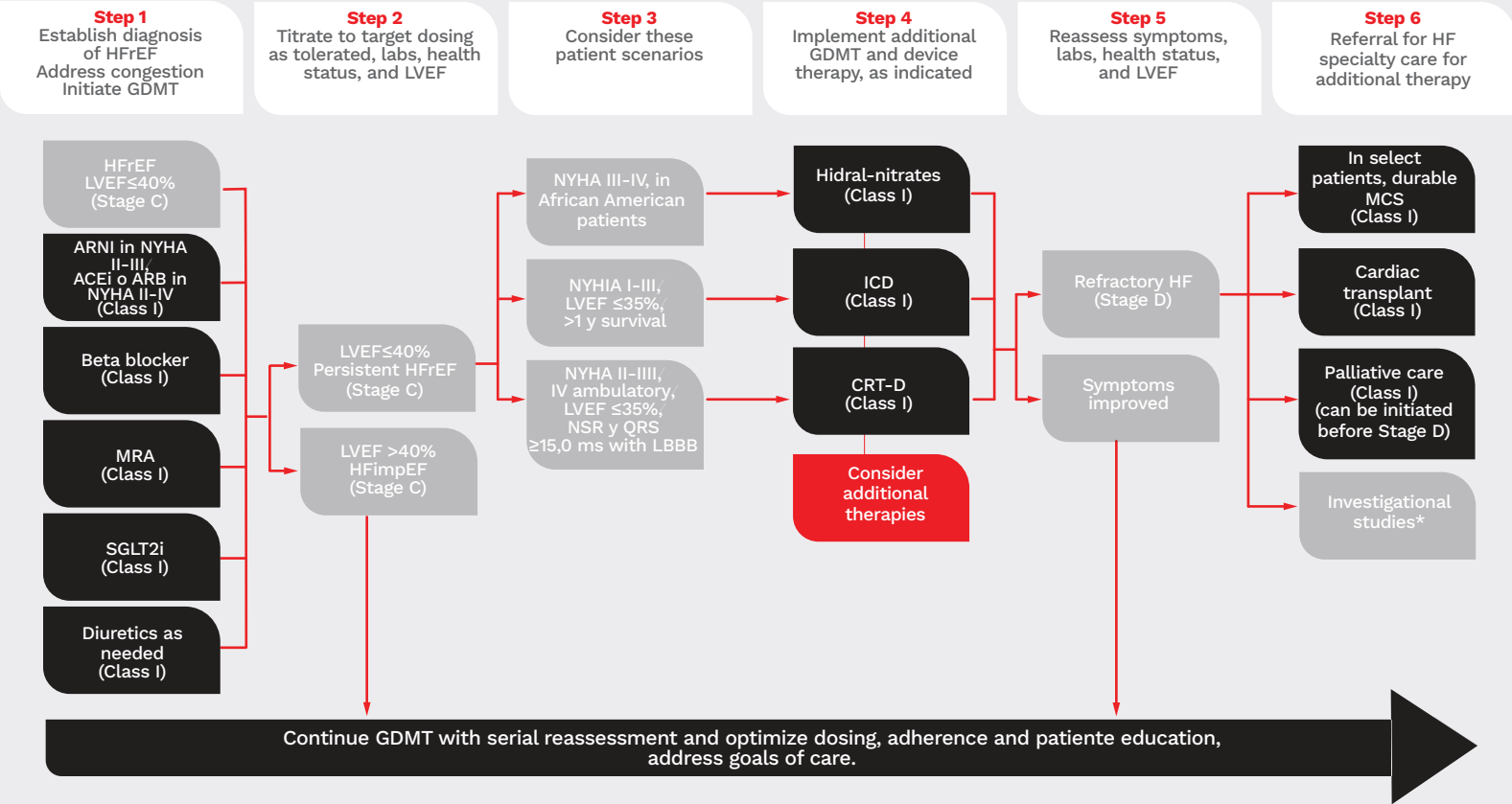
GUIDELINES HEART FAILURE



Positive
on **Heart**
Failure

American Guidelines

Guidelines of the American College of Cardiology (ACC), the American Heart Association (AHA) and the Heart Failure Society of America (HFSA) 2022 for the treatment of Heart Failure.¹



American Guidelines

Therapeutic algorithm directed by American guidelines
for heart failure with reduced ejection fraction (HFrEF).

ACC= American College of Cardiology, ACEI= angiotensin-converting enzyme inhibitor,
AHA= American Heart Association, ARB= angiotensin-receptor blocker, ARNI= angiotensinreceptor neprilysin inhibitor,
CRT-D= cardiac resynchronization therapy, GDMT= guideline directed medical therapy, HF= Heart Failure,
LVEF= left ventricular ejection fraction, HFimpeEF= heart failure with improved ejection fraction,
HFrEF= heart failure with reduced ejection fraction, HFSA= Heart Failure Society of America,
Hydral-nitrates= hydralazine and isosorbide dinitrate, ICD= implantable cardioverter-defibrillator,
LBBB= left bundle branch block, MCS= mechanical circulatory support, MRA= mineralocorticoid receptor antagonist,
SGLT2i= sodium-glucose cotransporter 2 inhibitor, NSR= normal sinus rhythm, NYHA= New York Heart Association.

REFERENCE

1. 2022 American Heart Association, Inc., the American College of Cardiology Foundation,
and the Heart Failure Society of America.
Available in <https://www.jacc.org/doi/10.1016/j.jacc.2021.12.011>

European Guidelines

Guidelines of the European Society of Cardiology
2021 for the treatment of Heart Failure.¹

Management of HFrEF

To reduce mortality – for all patients

ACE-I/ARNI

BB

ARM

SGLT2i

To reduce HF hospitalization/mortality – for selected patients

Volume overload

Diuretics

SR with LBBB ≥ 150 ms

CRT-P/D

SR with LBBB 130-149 ms or non LBBB ≥ 150 ms

CRT-P/D

Ischaemic aetiology

ICD

Non-Ischaemic aetiology

ICD

Atrial fibrillation

Anticoagulation

Atrial fibrillation

Digoxin

PVI

Coronary artery disease

CABG

Iron deficiency

Ferric carboxymaltose

Aortic stenosis

SAVR/TAVI

Mitral regurgitation

TEE MV Repair

Heart rate
SR > 70 bpm

Ivabradine

Black Race

Hydralazine / ISDN

ACE-I/ARNI intolerance

ARB

For selected advanced HF patients

Heart transplantation

MCS as BTT/BTC

Long-term MCS as DT

To reduce HF hospitalization and improve QOL – for all patients

Exercise rehabilitation

Multi-professional disease management

European Guidelines

Strategic phenotypic overview of the management of heart failure with reduced ejection fraction.

ACE-I= angiotensin-converting enzyme inhibitor, ARB= angiotensin receptor blocker, ARNI= angiotensin receptor-neprilysin inhibitor, BB= beta-blocker, b.p.m.= beats per minute, BTC= bridge to candidacy, BTT= bridge to transplantation, CABG= coronary artery bypass graft, CRT-D= cardiac resynchronization therapy with defibrillator, CRT-P= cardiac resynchronization therapy pacemaker, DT= destination therapy, HF= heart failure, HFrEF= heart failure with reduced ejection fraction, ICD= implantable cardioverter-defibrillator, ISDN= isosorbide dinitrate, LBBB= left bundle branch block, MCS= mechanical circulatory support, MRA= mineralocorticoid receptor antagonist, MV= mitral valve, PVI= pulmonary vein isolation, QOL= quality of life, SAVR= surgical aortic valve replacement, SGLT2i= sodium-glucose co-transporter 2 inhibitor, SR= sinus rhythm, TAVI= transcatheter aortic valve replacement, TEE= transcatheter edge to edge.

Colour code for classes of recommendation: Red for Class of recommendation I, Gray for Class of recommendation IIa.

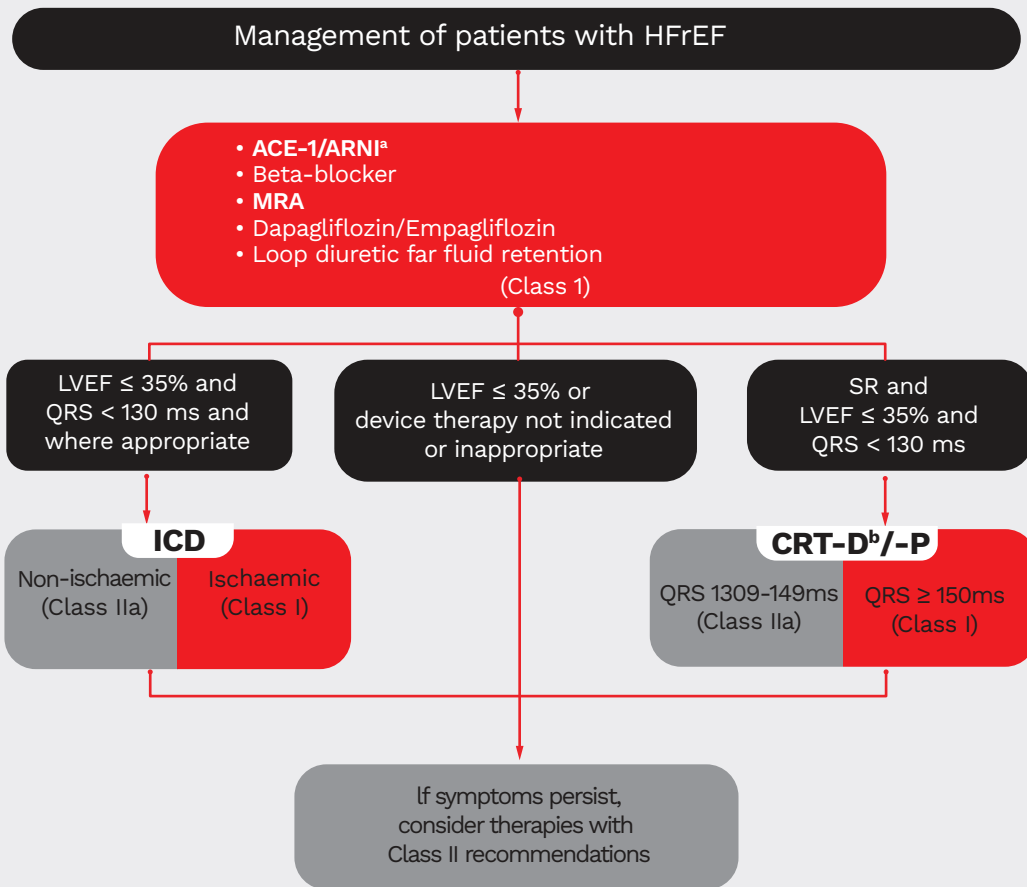
REFERENCES

1. Eur Heart J, Volume 42, Issue 36, 21 September 2021, Pages 3599–3726, <https://doi.org/10.1093/eurheartj/ehab368>

European Guidelines

Guidelines of the European Society of Cardiology
2021 for the treatment of Heart Failure.¹

Management of HFrEF



a. As a replacement for ACE-I b. Where appropriate.

European Guidelines

Therapeutic algorithm of Class I Therapy Indications for a patient with heart failure with reduced ejection fraction.

ACE-I = angiotensin-converting enzyme inhibitor, ARNI = angiotensin receptor-neprilysin inhibitor, CRT-D = cardiac resynchronization therapy with defibrillator, CRT-P = cardiac resynchronization therapy pacemaker, ICD = implantable cardioverter-defibrillator, HFrEF = heart failure with reduced ejection fraction, MRA = mineralocorticoid receptor antagonist, QRS = Q, R, and S waves of an ECG, SR = sinus rhythm.

Colour code for classes of recommendation: Red for Class of recommendation I, Gray for Class of recommendation IIa.

REFERENCE

1. Eur Heart J, Volume 42, Issue 36, 21 September 2021, Pages 3599–3726,
<https://doi.org/10.1093/eurheartj/ehab368>



Visit the site of
Heart failure
in AZMED



**Positive
on Heart
Failure**

AstraZeneca 

Produced by AstraZeneca CAMCAR Costa Rica S.A Centro Corporativo Plaza Roble Corporate Center, 5th floor,
Escazú, San José, Costa Rica. P.O. Box: 933-1220 Escazú. www.astrazeneca.com for AstraZeneca CAMCAR, S.A
To report an adverse event, quality complaint or request for information, click on the following link:
<https://contactazmedical.astrazeneca.com/>.