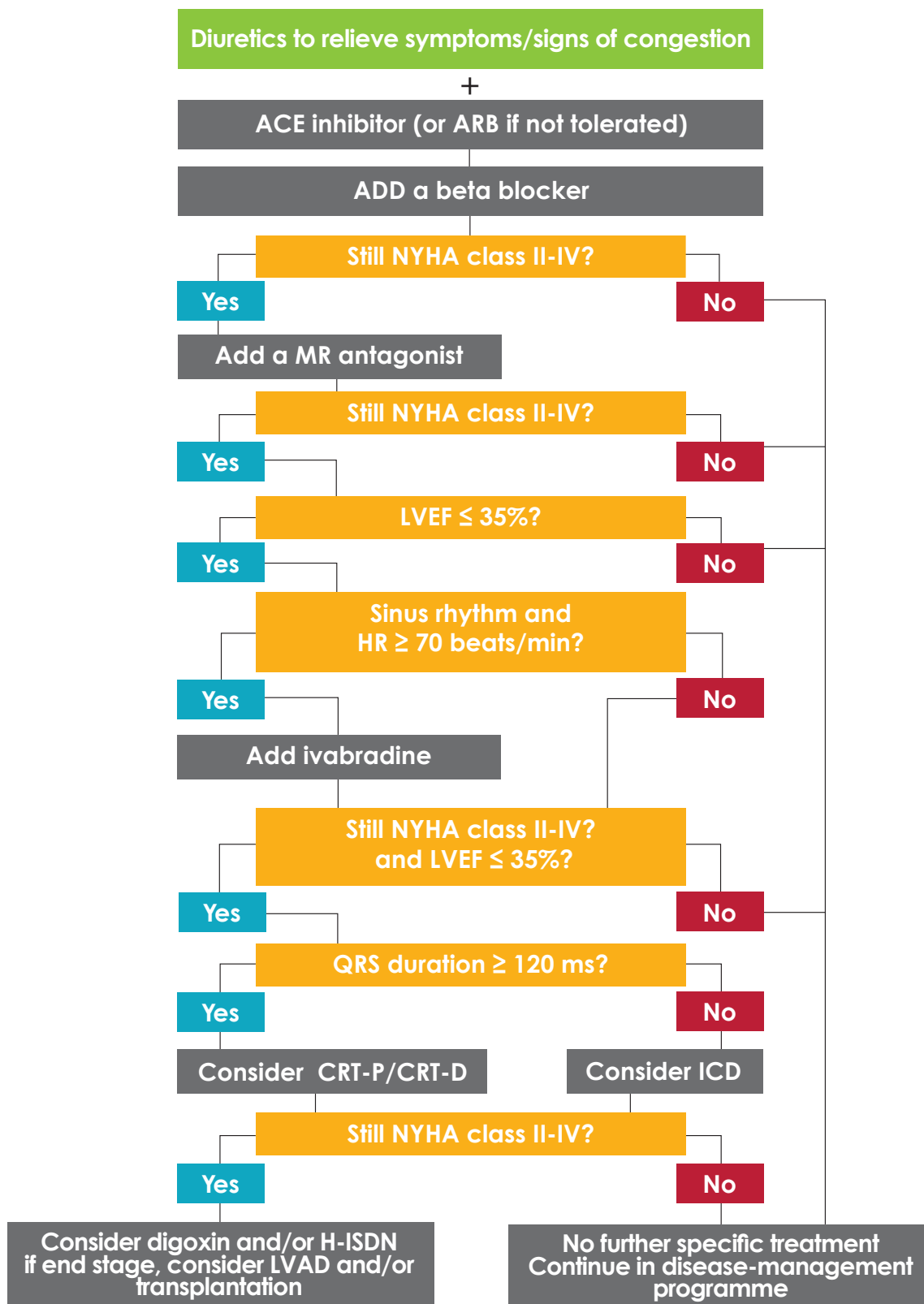


Decision Tree For Heart Failure Treatments¹ (Consistent with ESC Guidelines)



ESC Criteria for VAD-Eligible Patients¹

Patients with >2 months of severe symptoms despite optimal medical and device therapy and more than one of the following:

- LVEF < 25% and, if measured, peak $\text{VO}_2 < 12 \text{ mL/kg/min}$
- ≥ 3 HF hospitalizations in previous 12 months without an obvious precipitating cause.
- Dependence on IV inotropic therapy
- Progressive end-organ dysfunction (worsening renal and/or hepatic function) due to reduced perfusion and not to inadequate ventricular filling pressure (PCWP ≥ 20 mmHg and SBP $\leq 80-90$ mmHg or CI ≤ 2 L/min/m²).
- Deteriorating right ventricular function

LVEF = Left ventricular ejection fraction

VO_2 = Maximal oxygen consumption

PCWP = Pulmonary capillary wedge pressure

CI = Cardiac index

IV = Intravenous

ESC HF Guideline 2012 Recommendation – LVADs in Patients with Systolic Heart Failure¹

- Recommended in selected patients with end-stage heart failure despite optimal pharmacological and device treatment and who are **otherwise suitable for heart transplantation**.

• Class: I Level: B

- Should be considered in highly selected patients who have end-stage heart failure despite optimal pharmacological and device therapy and **who are not suitable for heart transplantation**, but are expected to survive >1 year with good functional status.

• Class: IIa Level: B

- Improve symptoms
- ↓ Risk of heart failure hospitalization
- ↓ Risk of premature death

ESC HF Guidelines 2012 Definitions¹

Classes of Recommendations	Definitions	Suggested Wording to Use
Class I	Evidence and / or general agreement that a given treatment or procedure is beneficial, useful, effective	"Is recommended / is indicated"
Class IIa	Weight of evidence / opinion is in favor of usefulness / efficacy	"Should be considered"
Levels of Evidence	Definition	
B	Data derived from a single randomized clinical trial or large non-randomized studies.	

1. McMurray, J, et al. ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure 2012 European Heart Journal. 2012;33:1787-847.