



**2021 ACOI Annual Convention
And Scientific Sessions
October 27-30**

When to Refer to Advanced Heart Failure

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Disclosures

- No affiliations with pharmaceutical or device companies

Objectives

- Classify, stage and anticipate the clinical course of heart failure
- Define, recognize & prognosticate patients with Stage D (ie. Advanced) heart failure
- Understand why and when to refer to Advanced Heart Failure Cardiology for the evaluation of therapies such as heart transplantation and ventricular assist device (VAD)

Back to the basics...

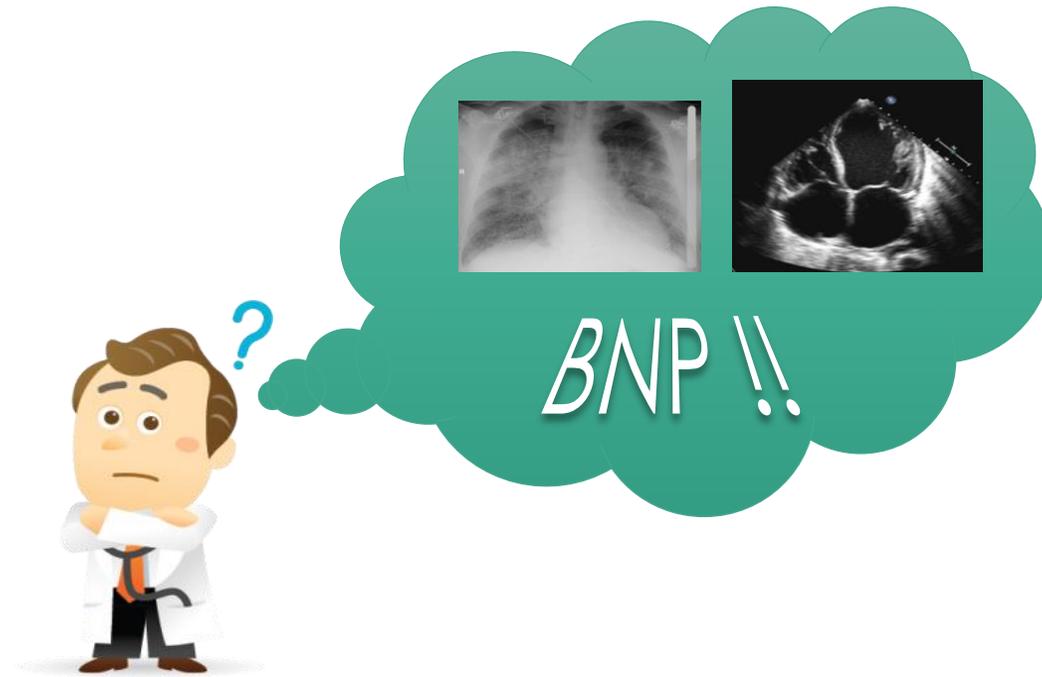
What is heart failure?

“Heart failure is a complex clinical syndrome that results from any structural or functional impairment of ventricular filling or ejection of blood”

Yancy et al. 2013 ACC/AHA Guideline for the Management of Heart Failure. JACC 2013; 62; 147-239

Back to the basics...

How do you diagnose heart failure?



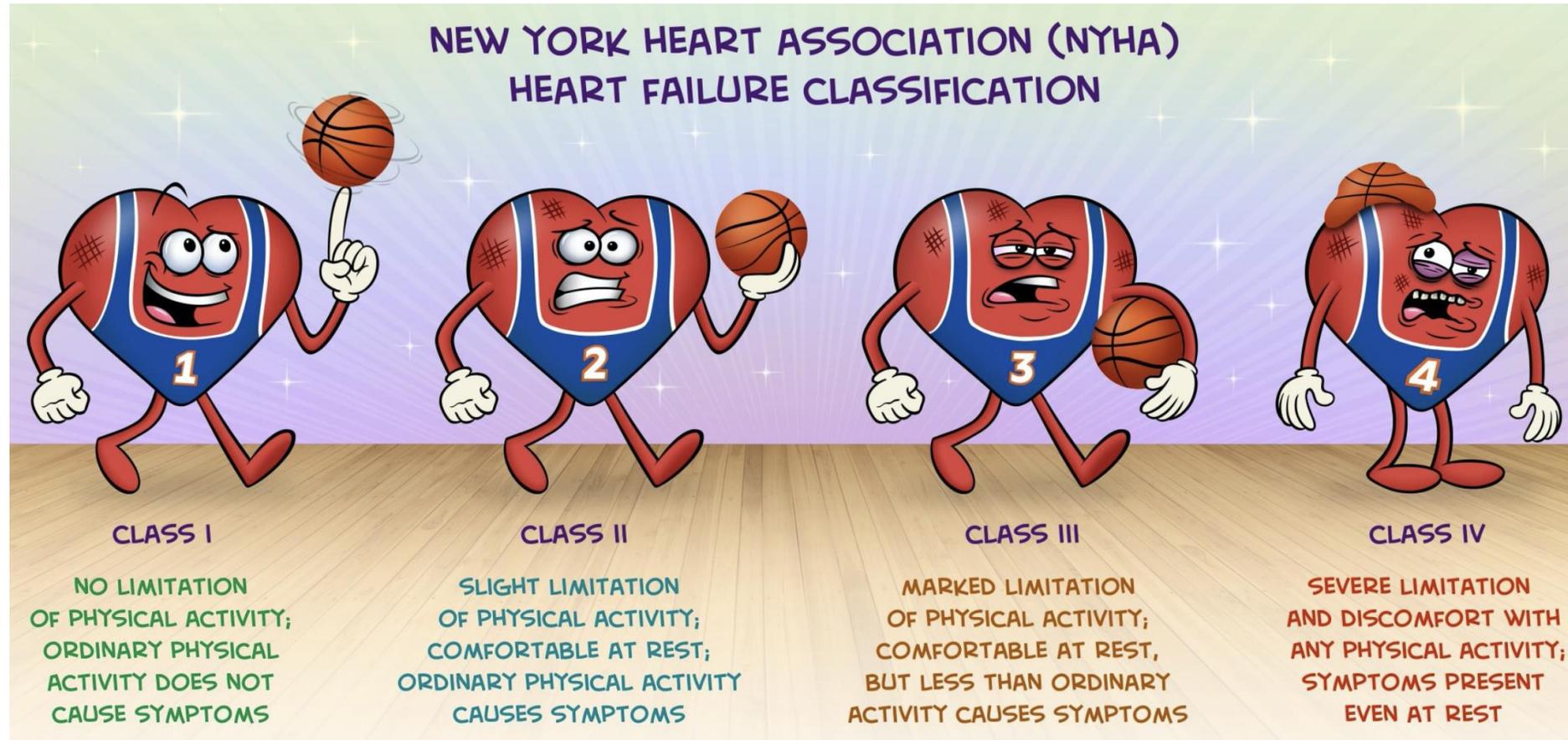
Back to the basics...

How do you diagnose heart failure?

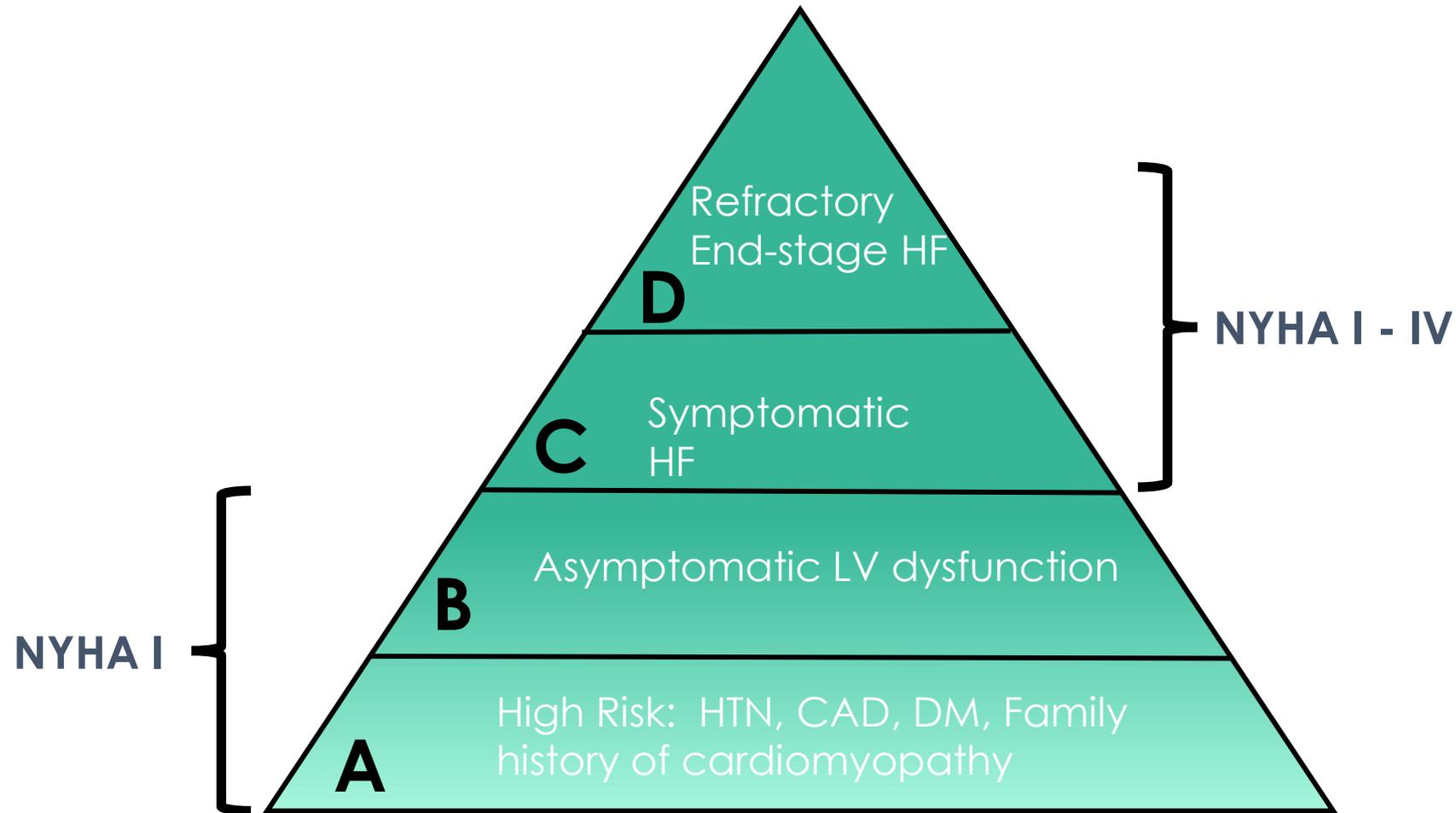
“There is no single diagnostic test for heart failure because it is largely a clinical diagnosis based on a careful history and physical examination”

Yancy et al. 2013 ACC/AHA Guideline for the Management of Heart Failure. JACC 2013; 62; 147-239

NYHA Functional Classification



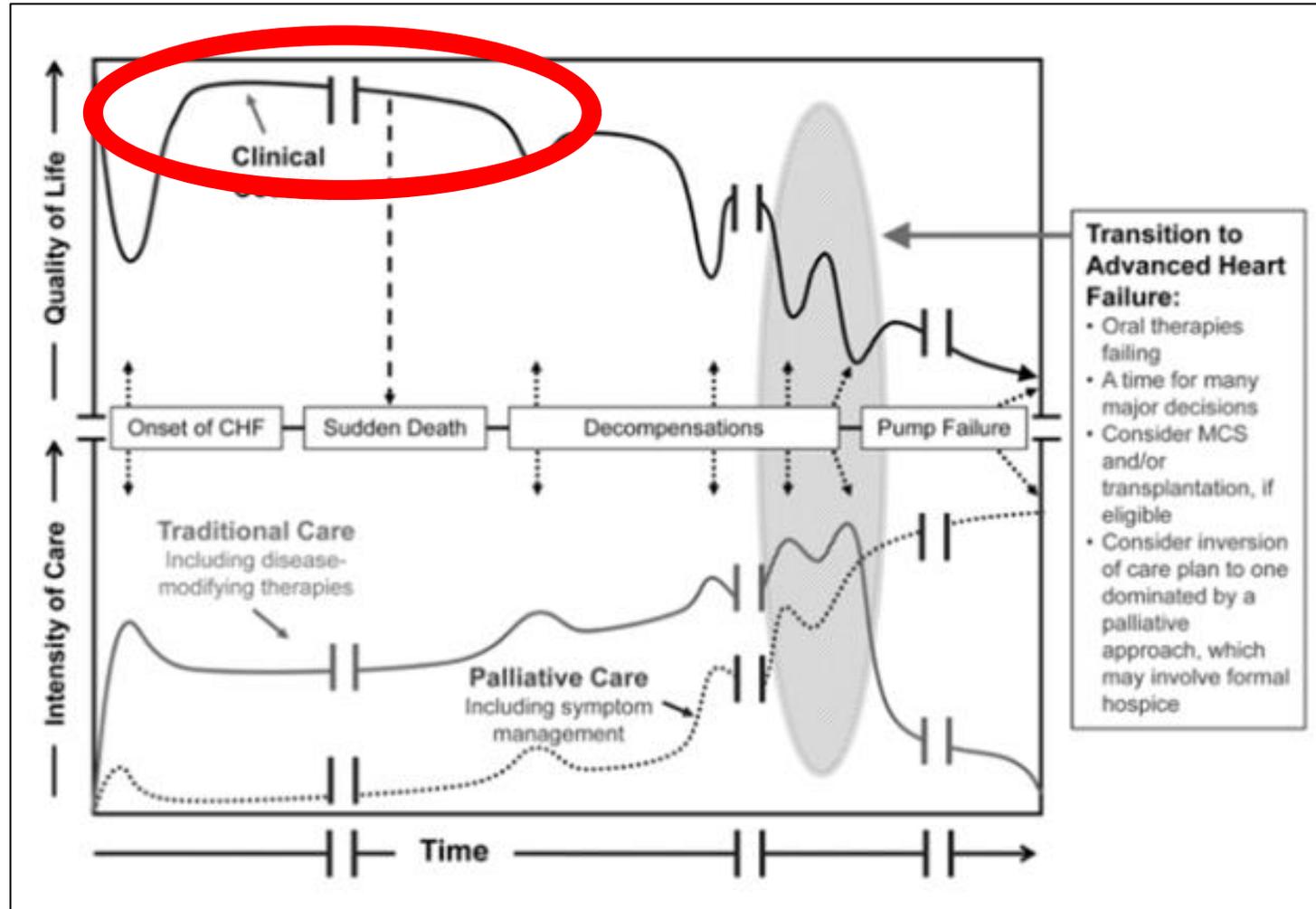
ACC/AHA Stages of HF



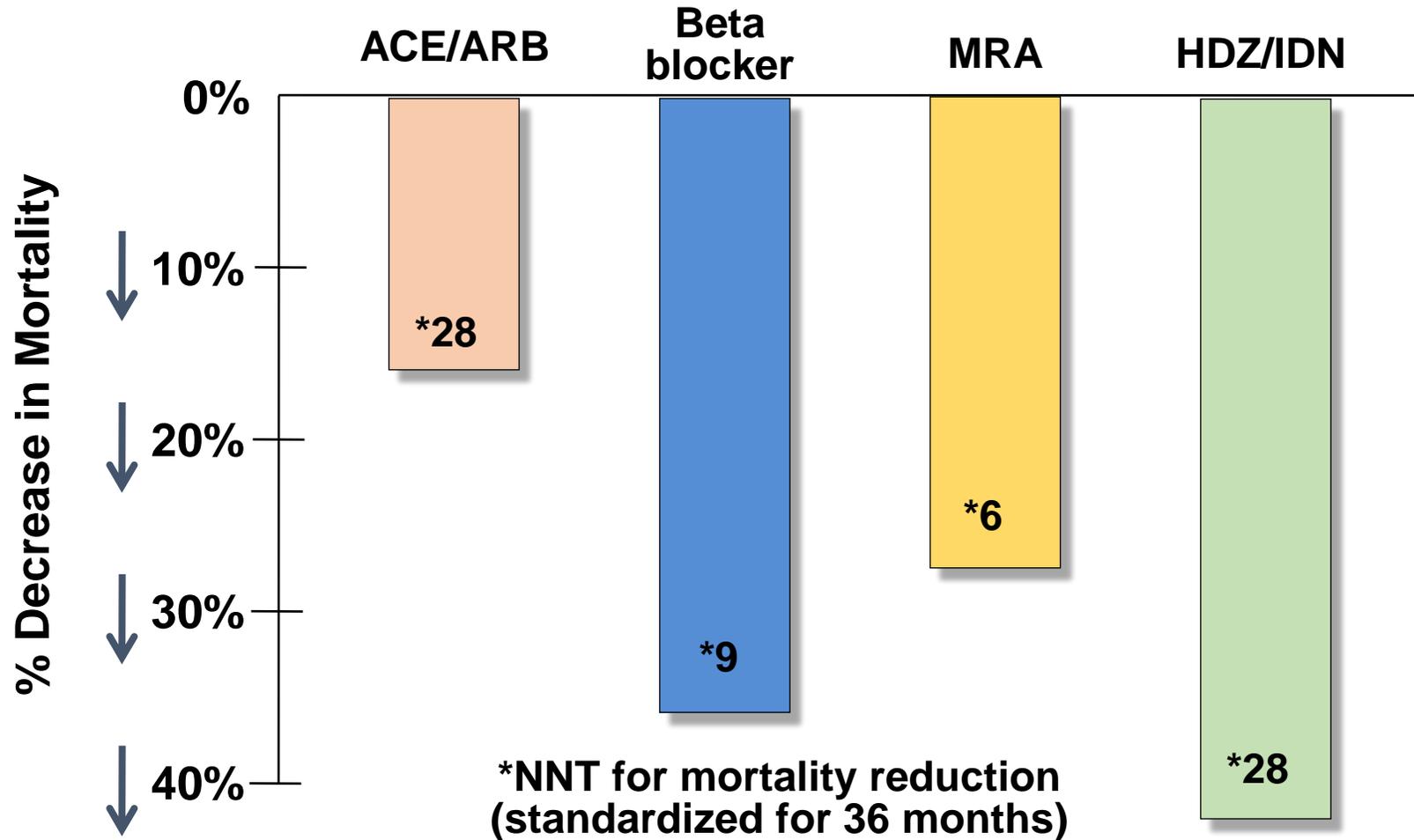
But first, why to refer?



Clinical Course of HF



Impact of GDMT in HFrEF

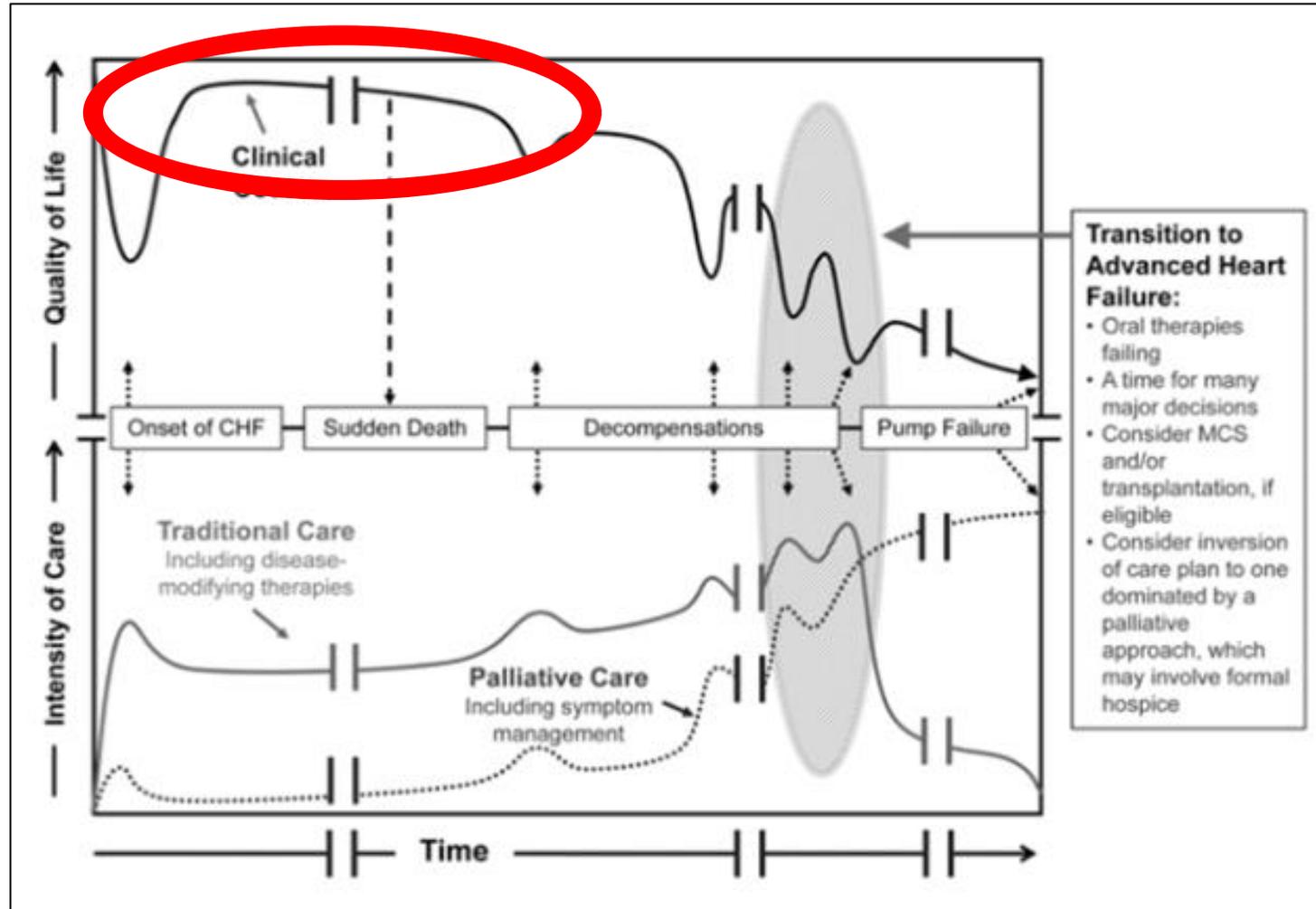


*NNT for mortality reduction
(standardized for 36 months)

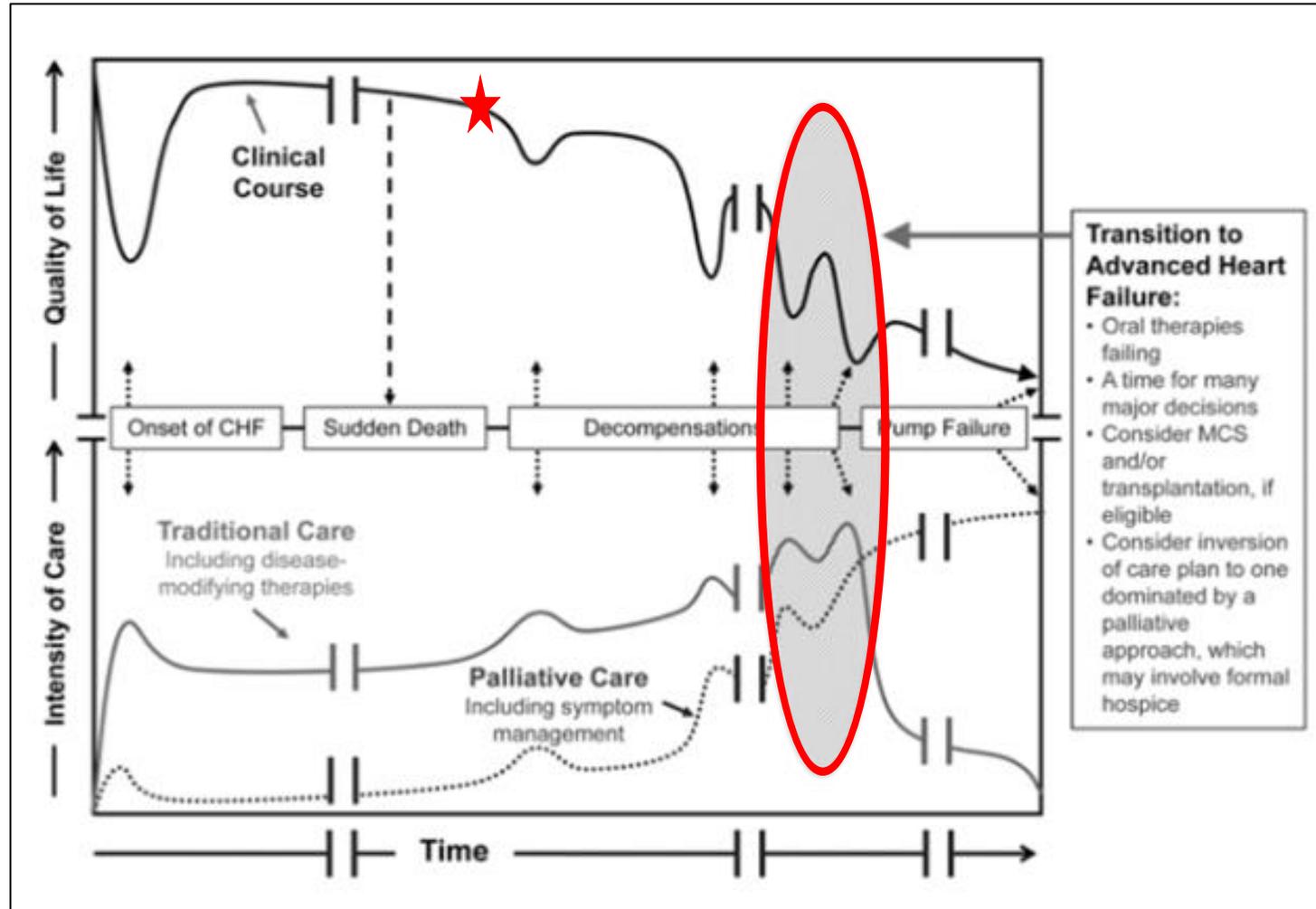
Other therapies for chronic HFrEF

- Sacubitril/valsartan
- Ivabradine
- SGLT2 Inhibitors
- IV Iron
- ICD/CRT
- MitraClip
- CardioMEMS

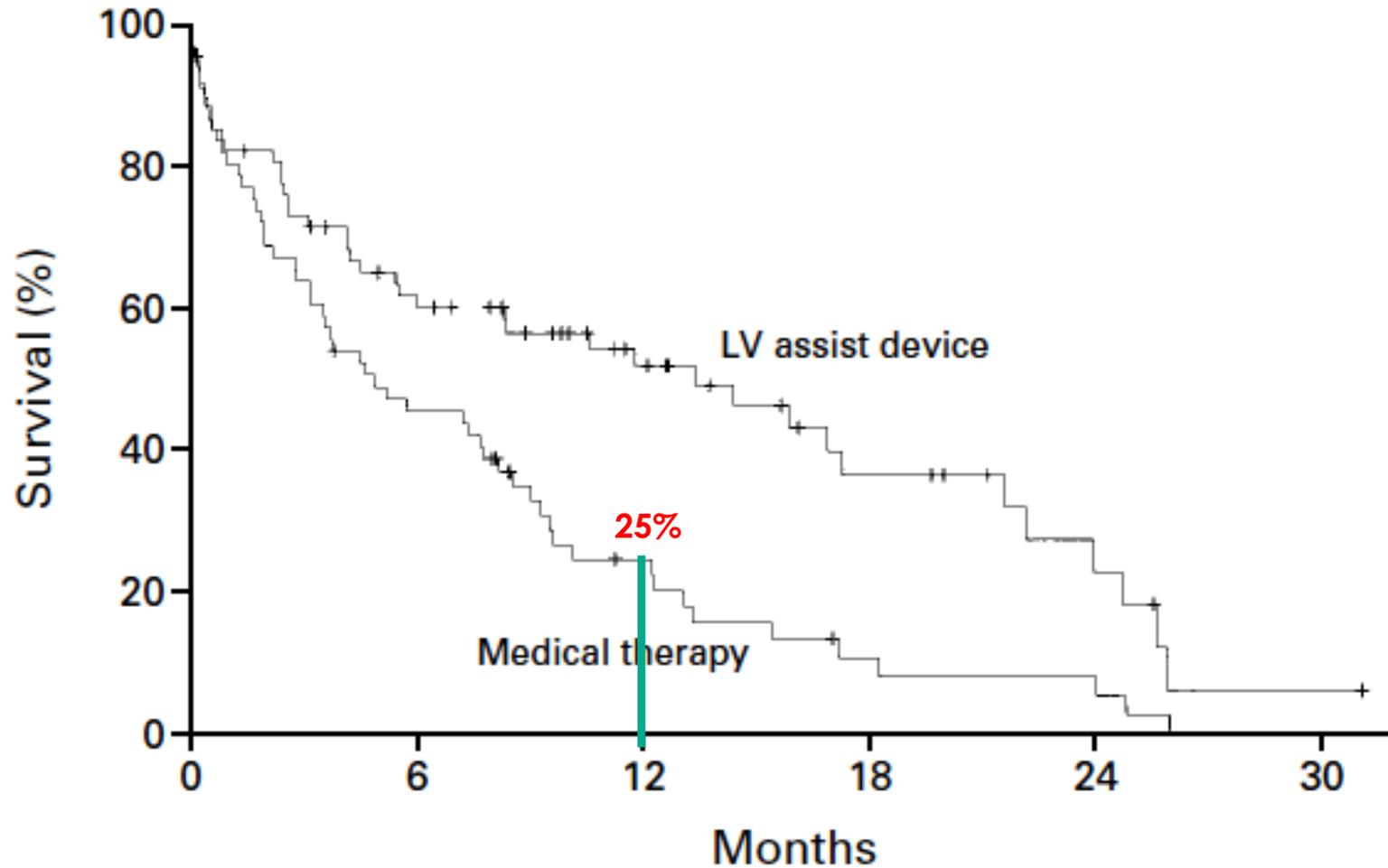
Clinical Course of HF



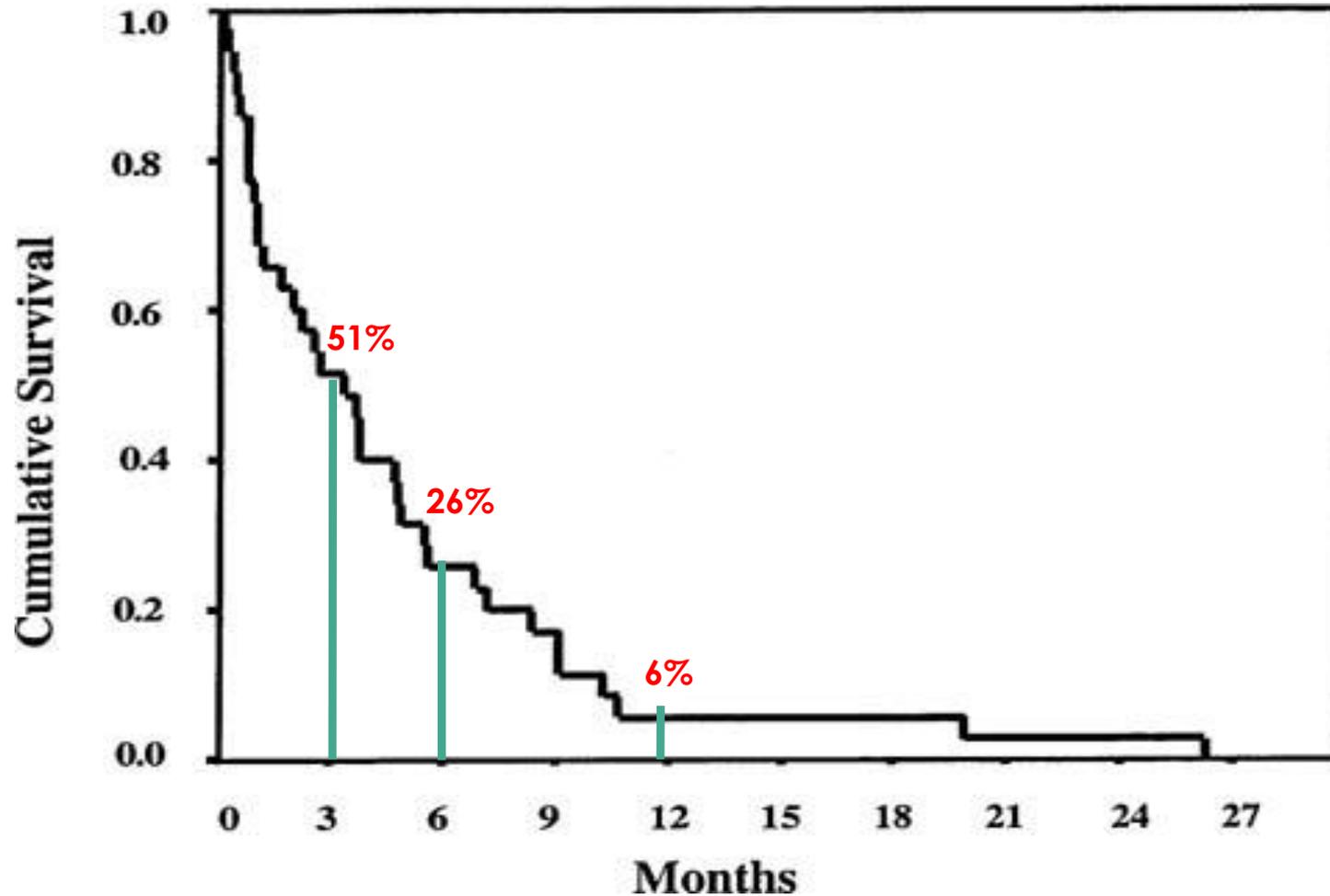
Back to the basics...



Medications in Stage D HF



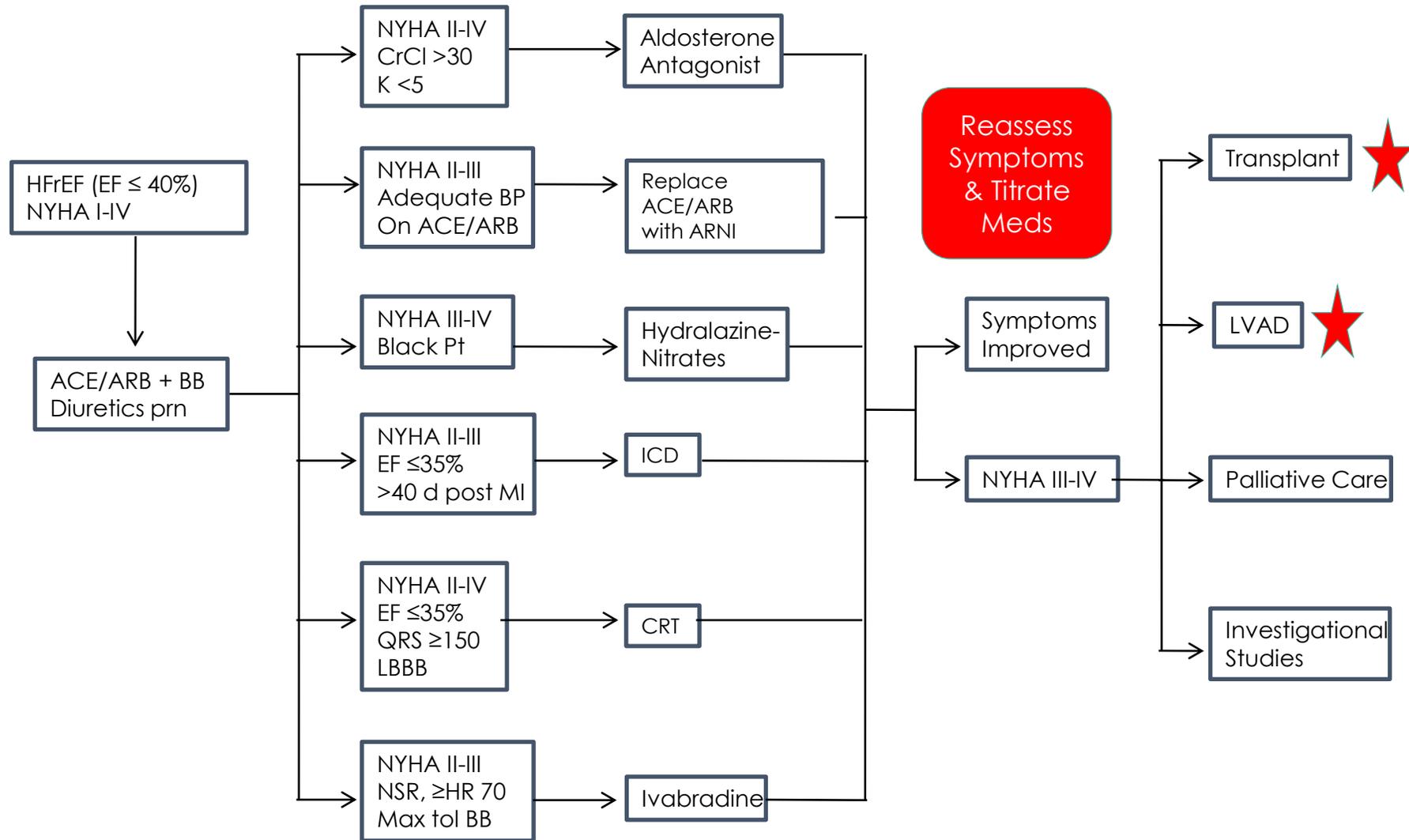
Medications in Stage D HF



What to do when medicine fails?

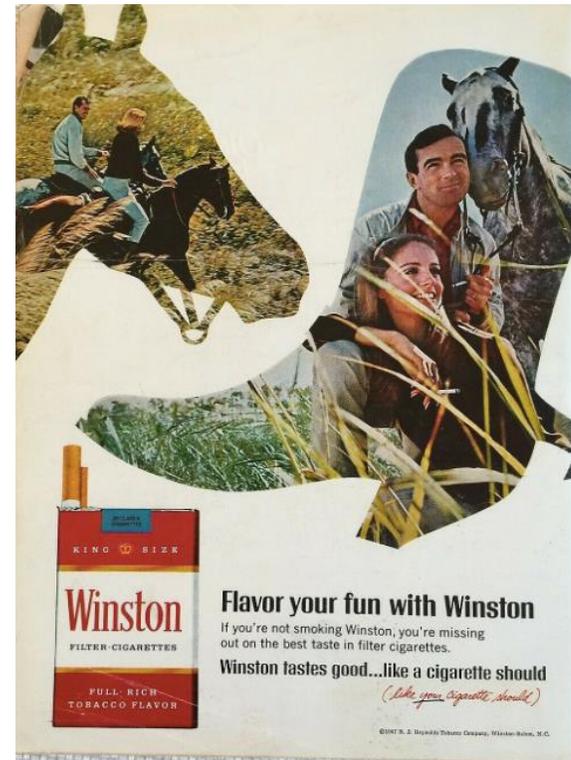


HFrEF: Guideline Directed Medical Therapy (GDMT)



Heart Transplantation

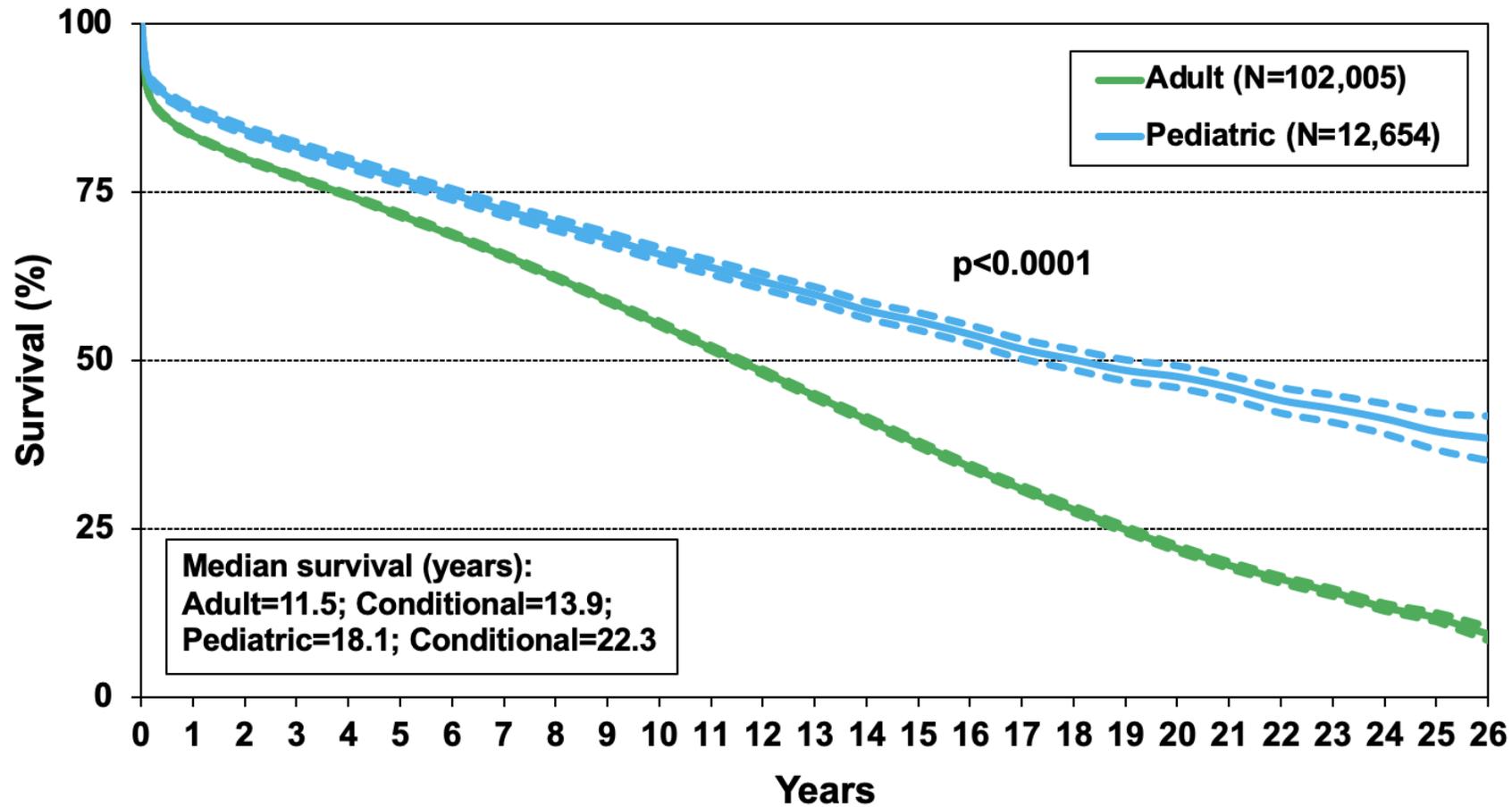
- Gold standard
- Risk of rejection is always present. Therefore, need immunosuppression necessary



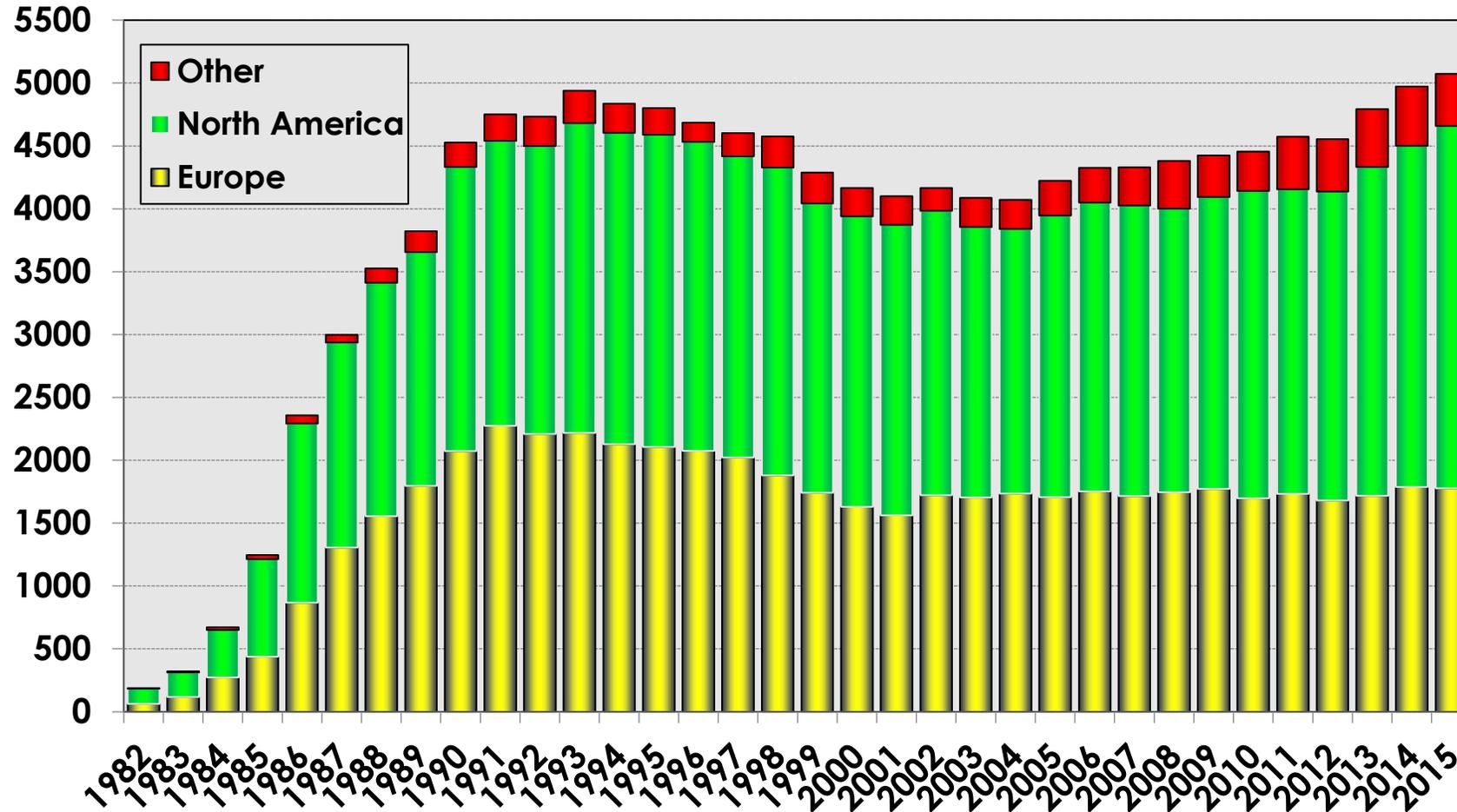
Hardships with the transplant route

- Waitlist time is dependent on many factors
- Rejection
- Cardiac allograft vasculopathy
- Adverse effects of immunosuppression:
 - Infection
 - Malignancy
 - Each medication has specific side effects
 - HTN, dyslipidemia
 - Diabetes
 - Renal disease

Survival with Heart Transplant



Number of transplants over the years



There just aren't enough donor hearts

Back to the basics...

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Placeholder text



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