

PRIMARY CARE DIABETES SOCIETY (PCDS) SCOTLAND - A UNIFIED APPROACH TO THE MANAGEMENT OF CVRM CONDITIONS

HEART FAILURE

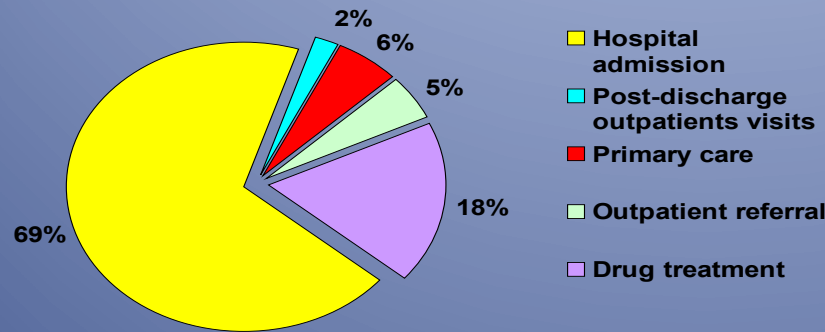
SHIRLEY ROBERTSON
LEAD HEART FAILURE ANP
LOTHIAN

Prevalence of Heart Failure

- Around **900,000 people** in the UK have heart failure - with almost as many people having damaged hearts but no symptoms as yet
 - Around 1 in 35 people aged 65-74 years
 - About 1 in 15 of those aged 75-84 years
 - Just over 1 in 7 in those aged 85 years and above
- **Prevalence expected to rise** through a combination of:
 - Improved survival of people with ischaemic heart disease
 - More effective treatments for heart failure
 - Effects of population ageing
- **Poor prognosis:** About half of all people who develop heart failure will die within 5 years of diagnosis.
- Survival rates are similar to those from cancer of the colon, and worse than those from cancer of the breast or prostate

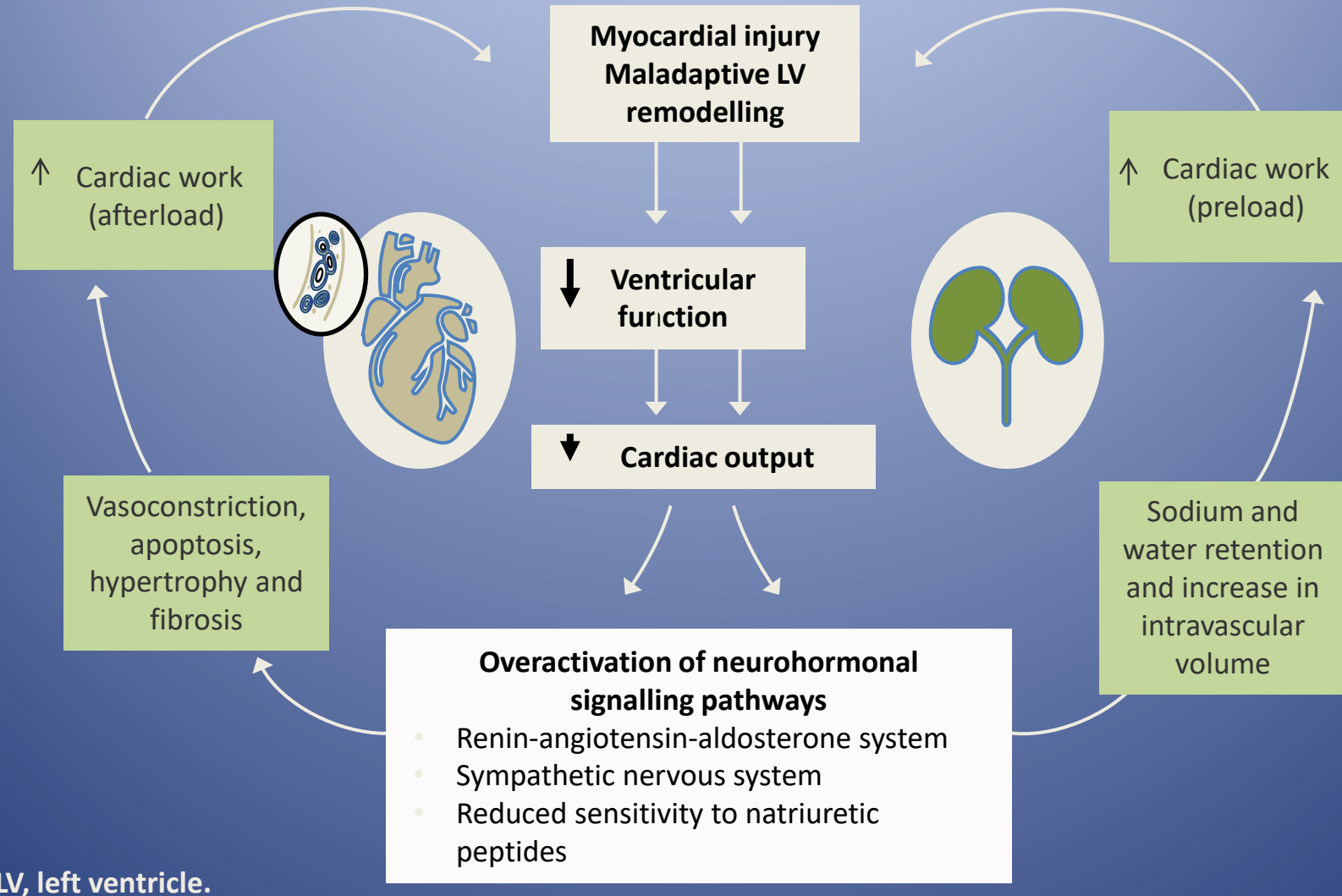
Financial burden of heart failure

- 1 million inpatient bed days ¹
- 2% of all NHS inpatient bed-days ¹
- 5% of all emergency medical admissions to hospital ¹

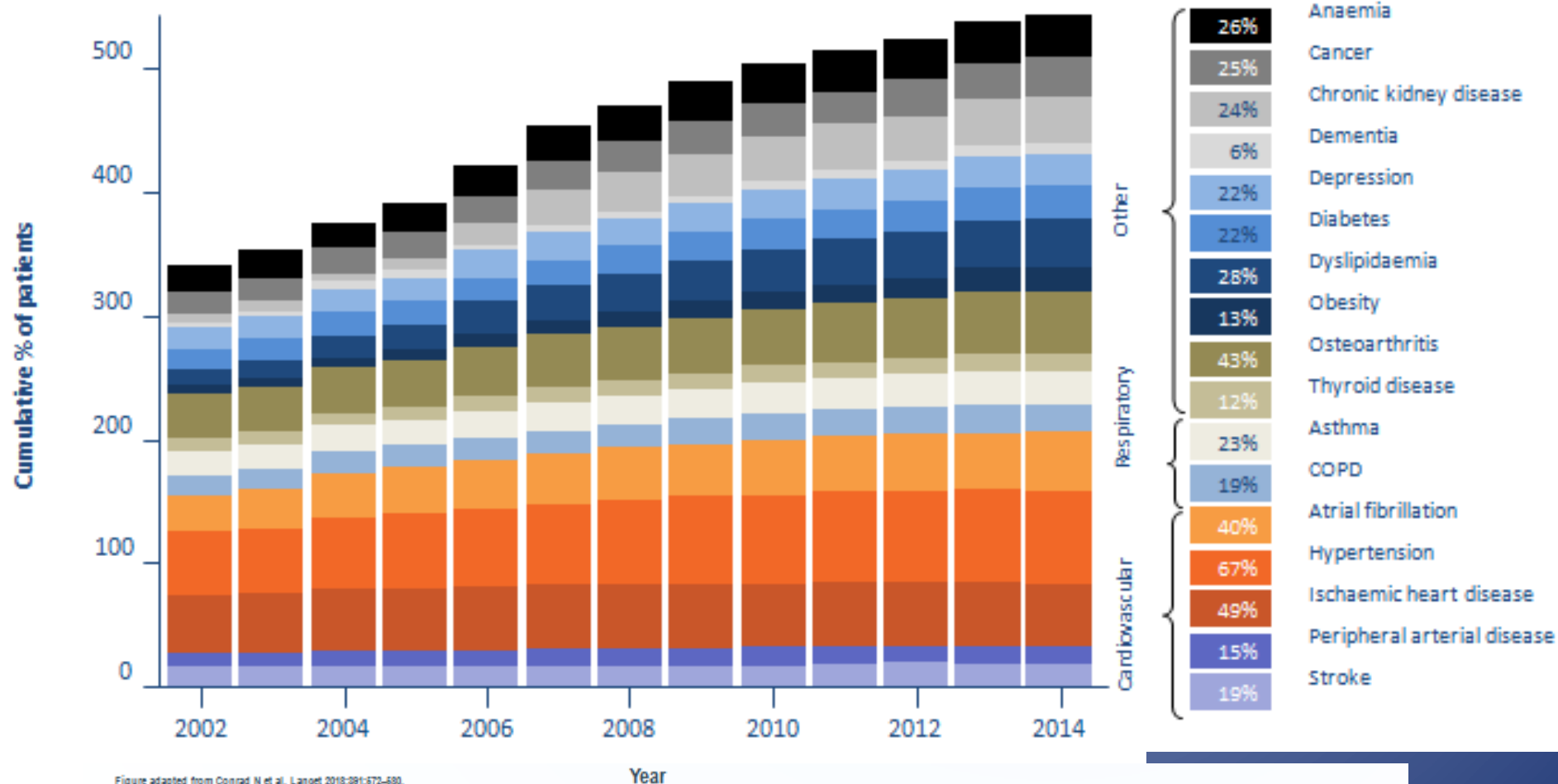


- Management of CHF currently accounts for 1-2 % of total health budget (total annual cost to NHS £625m) ¹⁻²
- As well as NHS costs, heart failure also places a burden on other agencies such as social services and the benefits system, and of course on the patients with heart failure and their families and caregivers ¹

The vicious cycle of heart failure with reduced ejection fraction¹



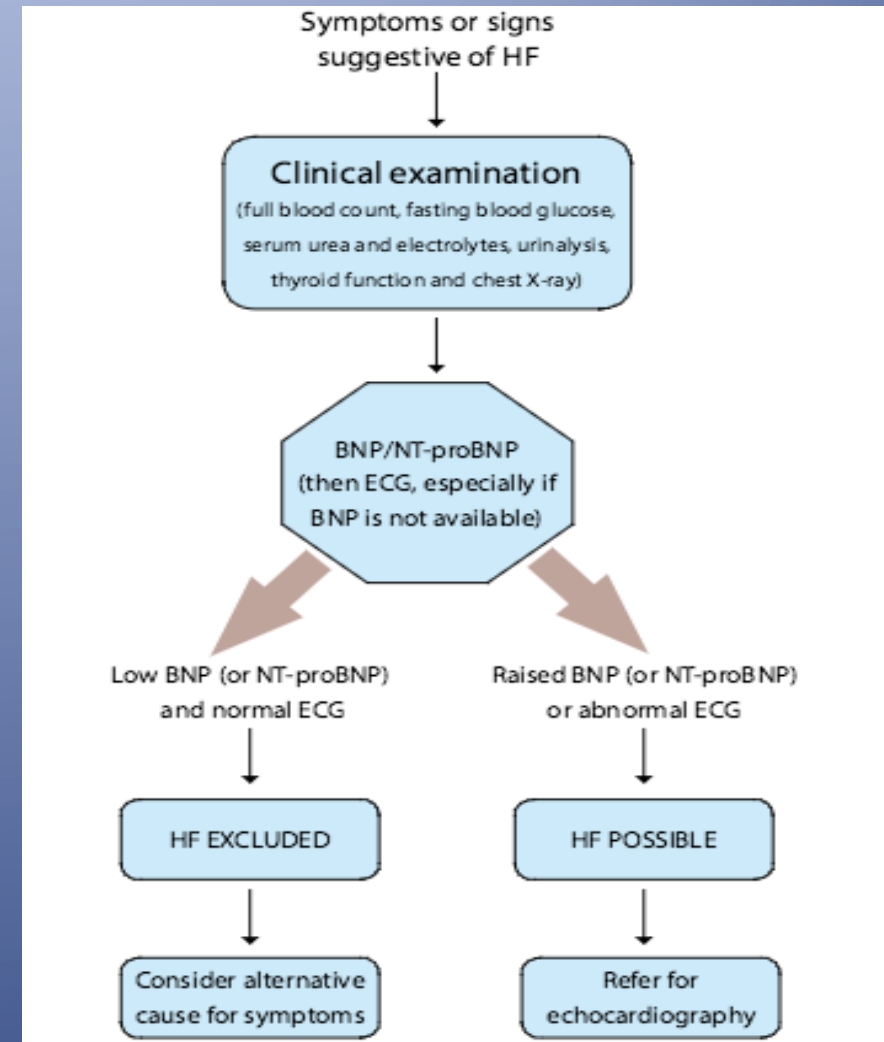
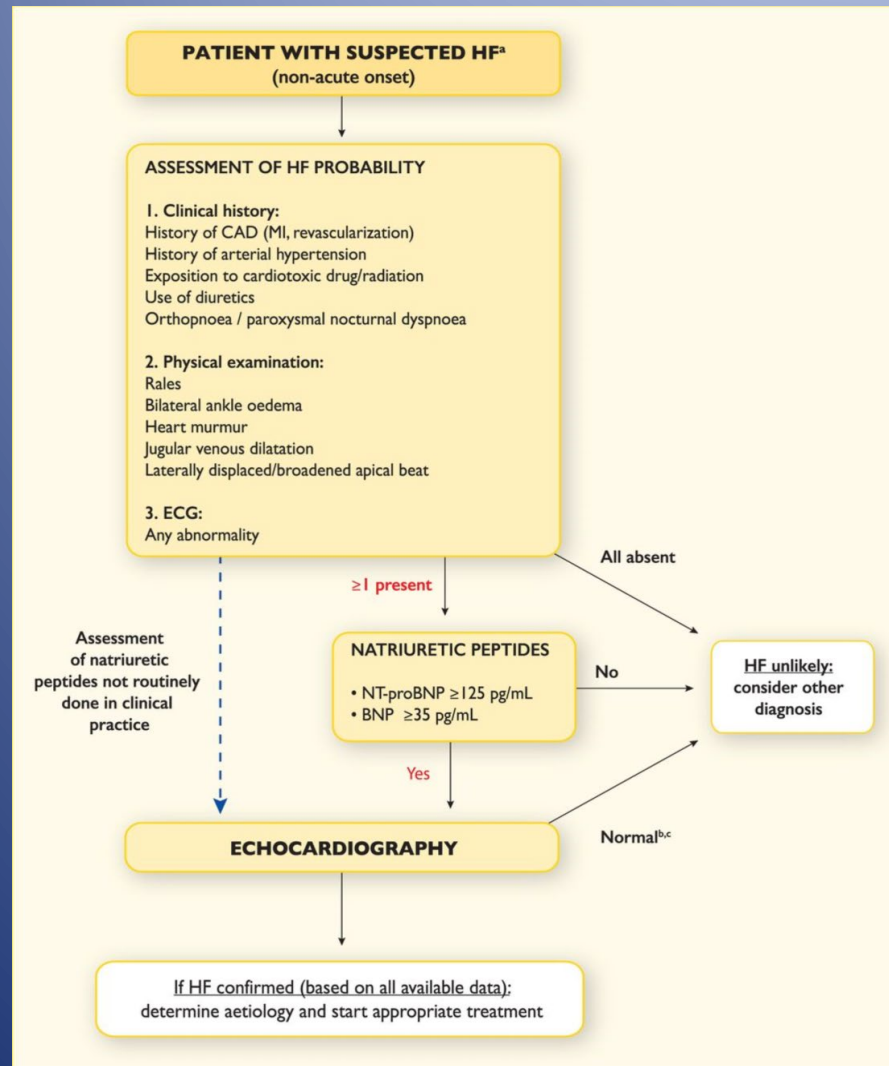
Patients with heart failure have a wide range of comorbidities, in part due to their advanced age¹
 This can lead to the concurrent use of multiple medications²
 Most comorbidities are associated with worse clinical status and are predictors of poor prognosis in heart failure²

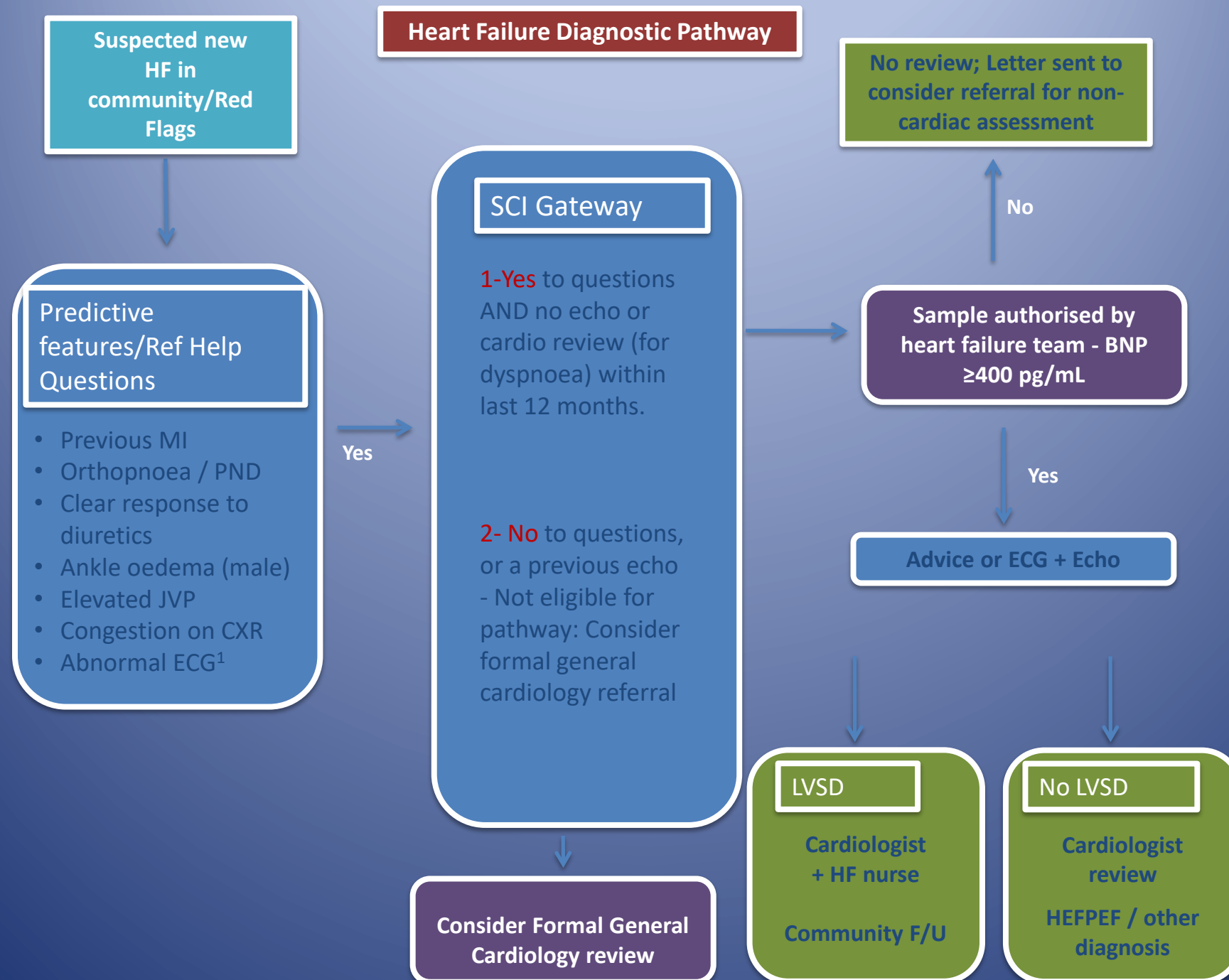


Patient Pathways

- A/E Presentation
- Hospital Admission
- Hospital Discharge
- Heart Failure Nurse Follow up
- Primary Care Review
- New Diagnosis Heart Failure

Diagnostic Pathway - SIGN 147/ESC

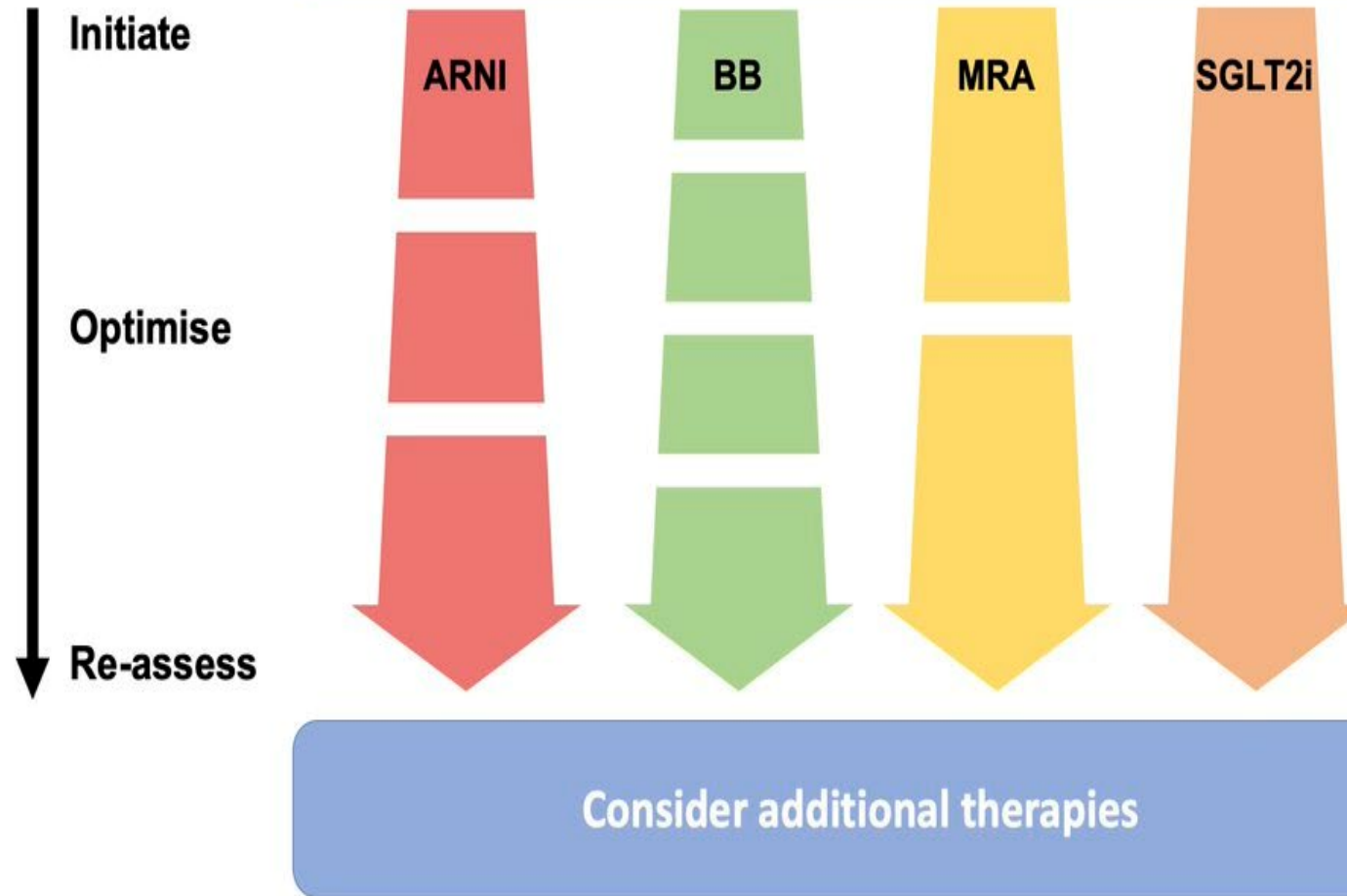




Other conditions that may present with similar symptoms

• Obesity	• Hypoalbuminaemia
• Chest disease – including lung, diaphragm or chest wall	• Intrinsic renal or hepatic disease
• Venous insufficiency in lower limbs	• Pulmonary embolic disease
• Drug-induced ankle swelling	• Depression and/or anxiety disorders
• Drug-induced fluid retention (e.g. NSAIDs)	• Severe anaemia or thyroid disease
• Angina	• Atrial Fibrillation/Hypertension

The Four Pillars of Heart Failure



NHS Lothian Heart Failure Team: Standard Drug Optimisation Protocol*

To be used **ONLY** in patients under the direct supervision of NHS Lothian Heart Failure Service

Phase 1: Stabilise

- Frequent F2F visits; weekly U+E
- If $K < 4$ consider Eplerenone / Sando K
- Continue until euvolaemic / stable U+E

- Loop diuretic in sufficient dose to relieve congestion
- Consider adjunctive treatment with Dapagliflozin 10mg od +/- Eplerenone 25 mg od
- Review maintenance dose of loop diuretic once euvolaemic

Phase 2: Initiate 'Core 4'

- Could replace Candesartan with Ramipril if Entresto not appropriate.
- F2F initiation visit then phone review, BP & HR at each step
- U+E 1-2 weeks after ARNI/ARB & MRA

Entresto 24/26 mg bd
or
Candesartan 4mg od

Bisoprolol 1.25-
2.5mg od

Dapagliflozin 10mg od

Eplerenone 25mg od

4-6 weeks

Phase 3: Uptitrate

- F2F Review after 2 weeks of Core 4:
 - review symptoms and bloods
 - adjust diuretic as required
 - prescribe drugs
- Switch ARB to Entresto if ongoing HF symptoms (otherwise \uparrow ARB)
- Phone review, BP & HR at each step
- U+E 1-2 weeks after \uparrow ARNI/ARB

Entresto 24/26 mg bd (or Candesartan 8mg od)

Entresto 49/51 mg bd (or Candesartan 16mg od)

Entresto 97/103 mg bd (or Candesartan 32mg od)

Bisoprolol 5mg od

Bisoprolol 7.5mg od

Bisoprolol 10mg od

8-12 weeks

*Appropriate for patients with moderate or severe LVSD and: $eGFR > 30$; $K < 5.2$; $SBP > 100$; no major frailty / cognitive impairment

Changes in Practice

Scottish Heart Failure Hub (National Advisory Committee for /Heart Disease) - advocated changes to medication titration

Increased use of telephone reviews

Development of remote monitoring/medication up-titration

Future Challenges

Predicted increase in numbers of heart failure presentations

Increasing frailty and multiple co-morbidities

Polypharmacy

Sustainable availability of diagnostic services

Funding for increased heart failure services, increased referrals

Thank you

Any Questions?