

# Heart Failure Case Studies

**Rebecca AK Newey** -Heart Failure Nurse Specialist Tayside  
Vice Chair Scottish Heart Failure Nurse Forum

# Impact of Heart Failure

- Associated with considerable morbidity and mortality
- One million bed days are attributed to HF in the UK each year
- A major effect on the Quality of Life of patients and their families
- The management of the patient with HF is complex
- The numbers of patients involved are large and increasing
- 40% of patients admitted with HF had symptoms that could have been managed in primary care to possibly prevent admission  
(The NHS long term plan 2019, NCEPOD 2018)
- **Patients with HF benefit from ongoing review** and should have access to a HF specialist team (SIGN 2016)

65p

2019 MEDIA BRAND OF THE YEAR • BRITAIN'S MOST TRUSTED DIGITAL NEWS BRAND 2019

**i**

MONDAY  
4 NOVEMBER 2019



Government heralds end of benefits freeze

**Kim Jong-un**  
How Trump is fighting back

**Jan Birrell**  
Ray of hope for autistic patients

# NHS feels the strain as heart failure cases soar



- Number of cases rises by a third in five years
- More than 900,000 living with incurable heart failure, with patients needing double the average time in hospital
- Charity calls for improvements in detection, diagnosis and treatment

PLUS INSIDE GUIDE: BERLIN | APPS FOR ANXIETY | ROBO WRITERS | TV P48 | PUZZLES P42

The i reports the number of cases of heart failure has risen by a third in five years. The paper says more than 900,000 people are living with an incurable form of the heart disease.



Sign in

**Heart failure  
hospital  
admissions  
rise by a third  
in five years  
putting  
'immense  
pressure' on  
the NHS**

BHF (2019) Solution primary and secondary care to work together. NB Our Referrals have doubled in 1 year

# Patient Case Studies

## Case 1

- 78 year old Female
- Re-Referral, Discharge from HF service 6/12 ago (had declined further up titration as well). Phoned service as 2 week history new symptoms
- **Diagnosis** Echo Mod/Sev LVSD EF 38%
- **PMH** IHD, MI 5 years ago, PCI RCA, AF
- **Signs and Symptoms** Worsening ankle oedema, weight increase 2kg in 1 week, Increase SOB (could walk around Asda and now struggling)
- Loosing confidence with exercise/balance
- **Cardiac Medications** – Ramipril 5mg, Bisoprolol 5mg, Spironolactone 25mg, Furosemide 40mg, Edoxaban 60mg
- **Observations/Assessment** BP 133/78mmHg, HR 88bpm irreg, Creps right base, 4 pillow orthopnoea, occasional PND, Nil chest pain
- **Renal function** stable, eGFR 56

## What are the Issues?

- New Oedema
- Worsening SOB
- Increase Weight
- Mobility/Confidence
- ? Compliance – discuss loop diuretic flexibility/PRN loop

## Things to consider

What NYHA?

What can you offer?

Scope to alter medication?

Advice?

Tests? Other Diagnosis?

Further Referrals?

Follow up and Management Plan?

Patient Advise and education?

## Whats next?

Increase Furosemide and what dose? (mention bendroflumathiazide)

OR

Up Titrate Ramipril

OR

Switch to Entresto (Sacubitril/Valsartan)

OR

Increase Furosemide and switch to Entresto

OR

Up titrate Bisoprolol (AF)

OR

Add Dapagliflozin (NB mobility/confidence improved with medication changes)

## Case 2

- 32 year old male
- New Presentation SOB minimal exertion and fatigue ++, 3 months post CPVID, He thought it was long covid so didnt report symptoms (NB increase of this history recently). Could not play his weekly 7 a side football. GP did BNP >3000
- **Diagnosis** Echo Sev LVSD EF 15%
- **PMH** Hypertension, Excess Alcohol (had not been documented, 3-4 beer/night)
- **Signs and Symptoms** Improvement since diagnosis and medication commenced promptly. Walk 2 miles, short of breath doing stairs/incline or walking at a pace, increase thirst.
- Working FT Teacher, married, had stopped drumming in band due to worry about heart.
- Reduced Beer therefore fluid intake to 2L/day (was 4L/day!)
- **Cardiac Medications** – Ramipril 10mg, Bisoprolol 5mg, Eplerenone 25mg, Furosemide 80mg
- **Observations/Assessment** BP 142/63mmHg, HR 98bpm reg, Nil oedema, PND, orthopnoea
- **Renal function** stable, eGFR 60

## What are the issues?

- Symptomatic
- Tachycardiac
- Increase Thirst
- Scope to Improve medications

## Things to consider

What NYHA?

What can you offer?

Scope to alter medication

Advice?

Tests? Other Diagnosis?

Further Referrals?

Follow up and Management Plan?

Patient Advise and education?

## What Next?

Up titrate Bisoprolol

OR

Switch to Entresto (Can now commence Entresto for ACEI naive)

OR

Add Dapagliflozin

OR

Reduce Furosemide

## AND

- Referred to Golden Jubilee National Hospital Glasgow
- Genetic Testing – Implication Family
- Assessment for primary prevention ICD (narrow QRS on ECG)
- Discuss side effect BB and medications, Drumming in Band Advice

## Case 3

- 48 year old male
- Primary Care Routine annual review in practice
- **Diagnosis** Echo Severe LVSD
- **PMH** MI, CABG
- **Signs and Symptoms** Worse exercise capacity in 6/12, cant cycle, using car more, SOBOE, Fatigue (thought to be expected), ankle oedema (didnt want to bother practice)
- Reduced hours as Tesco manager due to fatigue (had not informed GP)
- Low mood and no motivation 6/12
- **Cardiac Medications** – Entresto 49/51mg bd, Bisoprolol 10mg, Eplerenone 50mg, Dapagliflozin 10mg od
- **Observations/Assessment** BP 122/68 mmHg, HR 68bpm regular **ECG** – new LBBB, QRS 148
- **Renal function** stable, eGFR 60

## What are the issues?

Reduce working hours

Symptomatic despite 4 pillars/HF therapies

Had not reported Symptoms

## Things to consider

What NYHA?

What can you offer?

Scope to alter medication

Advice?

Tests? Other Diagnosis?

Further Referrals?

Follow up and Management Plan?

Patient Advise and education?

## Whats next?

Up titrate Entresto

OR

Add Furosemide

OR

Anything Else?

## AND

- Discuss mental health - Psychology of Health and Wellbeing referral
- Cardiac Rehab or Active for Life referral
- Self Management/Traffic Lights/Seek Help
- Highlights importance of 6 monthly (NICE)/Annual (SIGN) Reviews
- Good medications but symptomatic - Refer cardiology

## Case 4

- 75 year old male
- **Diagnosis** Severe LVSD EF 32%
- **PMH** MI x3, CABG x3 grafts
- **Signs and Symptoms** Weight decrease 1.5kg, skin dry, thirsty, increased fatigue, frail
- **Cardiac Medications** – Aspirin 75mg, Furosemide 120mg + 40mg, Ramipril 10mg, Bisoprolol 10mg od, Spironolactone 25mg, GTN PRN
- **Observations/Assessment** BP 90/60mmHg sitting (normal for him), dizzy, HR 62bpm, chest clear, nil oedema, PND, orthopnoea
- **Renal function** Na 135, K+5.6, eGFR 31 (decline in 1 month)

## What are the issues?

SOB

Dehydrated/Thirst/Weight Loss

Hypotension/Dizzy

Frail/Risk of Fall

Renal Dysfunction

## Things to consider

What NYHA?

What can you offer?

Scope to alter medication

Advice?

Tests? Other Diagnosis?

Further Referrals?

Follow up and Management Plan?

Patient Advise and education?

## What next?

Reduce Furosemide (help BP and renal)

OR

STOP Spironolactone OR Reduce spironolactone

OR

Add Dapagliflozin

OR

Switch to Entresto

## AND

- MDT to discuss if plan doesnt work
- Discuss diuretics with daughter who visits daily and does medications
- DN visit – support frailty, refer HOPE
- Risk hyperkalaemia dont forget to check not consuming a high K+ diet (Lo salt, bananas, tomato juice, processed food)

Thank you  
Questions Welcome

Rebecca.Newey2@nhs.scot