#1900 HEALTH

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Heart Failure (HF) Pathways for use in General Practice

Suspected diagnosis of HF

For use in primary care after the breathlessness algorithm for potential diagnosis of HF

Patient on HF register?

For use in primary care for patients with confirmed HF who have recently moved to your practice or under your long term care

Expected treatment pathway for HF with left ventricular systolic dysfunction (LVSD) LVEF ≤40%

For use in primary care – a quide outlining the expected treatment of HF with LVSD.

Expected treatment pathway for HF with preserved ejection fraction (HF-pEF) LVEF >40%

For use in primary care – a quide outlining the expected treatment of heart failure with preserved ejection fraction

- General Practice Six Month HF Review 5.
- 6. Glossary

The guidance does <u>not</u> override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or guardian or carer.







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If having completed the breathlessness algorithm on DXS and there is... Suspected new diagnosis of heart failure? See ESC guidelines for further information on symptoms of HF Chest X-ray & ECG **Prior history** Do NOT book open access echo of MI Bloods (FBC, U&E, HbA1c, Chol, TFTs) **NT Pro-BNP** NT-proBNP NT-proBNP NT-proBNP <400 400-2000 >2000 pg/mL pg/mL pg/mL Requires assessment by specialist and echocardiogram in one stop Heart Failure Clinic Unlikely HF NHS e-referral consider NHS e-referral seen within 6 alternative seen within 2 weeks weeks diagnosis

At KCH and GSTT refer to 2 week or 6 week Heart Failure Clinic on NHS e-referral service (for 2 week select 'urgent' filter)

For SGH refer to 'Rapid Access Heart Failure Clinic' on NHS e-referral service



2. Patient on HF register?

Previous diagnosis by cardiologist or HF specialist Contact your locality HF team for support

Stable and well

If LVSD is patient on maximum tolerated licensed dose: ACE-I, beta-blocker +/-MRA/AA

If HF-pEF manage fluid overload with diuretics and address any comorbidities

Consider review at **HF virtual clinic**

Review 6 monthly either in General Practice or by specialist to ensure stability dependent on complexity (please see pathway 5)

Symptomatic despite maximum tolerated first line medical therapy? (See pathway 3 & 4)

Consider referral to heart failure specialist

If significant comorbidity, frailty and over **70** years consider if more appropriate to be seen in HF older adult clinic with Dr Wilson (KCH) or Dr Schiff (GSTT) If unsure you can access electronic frailty score via FMIS or DXS

> If not refer to heart failure cardiologist at KCH or GSTT.

For SGH refer to heart failure specialist clinic regardless of comorbidity and age.

If previously known to community heart failure team within last year refer for review

For referral to community heart failure team email: gst-tr.KHPcommunityHF@nhs.net Please include GP summary and Echo

Need advice?

For support with education and management contact locality team For complex management advice or admission avoidance email KHP consultant mailbox: gsttr.KHP-HFconsultant@nhs.net for GSTT and KCH. For SGH email stgh-tr.heartfailureteam@nhs.net



3. Expected treatment pathway for confirmed LVSD (LVEF ≤40%) read code 585f

For further information on the specialist treatment pathway please click here

Following diagnosis and specialist treatment plan: Prescription of disease modifying therapy & diuretics: ACE-I/ARB **Beta Blockers** To maximum tolerated licensed dose

Screen for co-morbidities

Hypertension

Renal dysfunction

Diabetes

Pulmonary disease

Ischaemic heart disease

If still symptomatic consider second line medication: MRA/AA

If any questions or concerns about patient or medication contact locality team. (See yellow box below)

6 monthly review for all HF patients (see pathway 5)

If still symptomatic despite maximum tolerated medication refer for:

- Specialist re-assessment of symptoms, LV function and ECG
- Specialist consideration of advanced therapies: including sacubitril valsartan/ivabradine/digoxin/hydralazine + nitrate/device therapy/transplant

See pathway 2 for referral guidance

Need advice?

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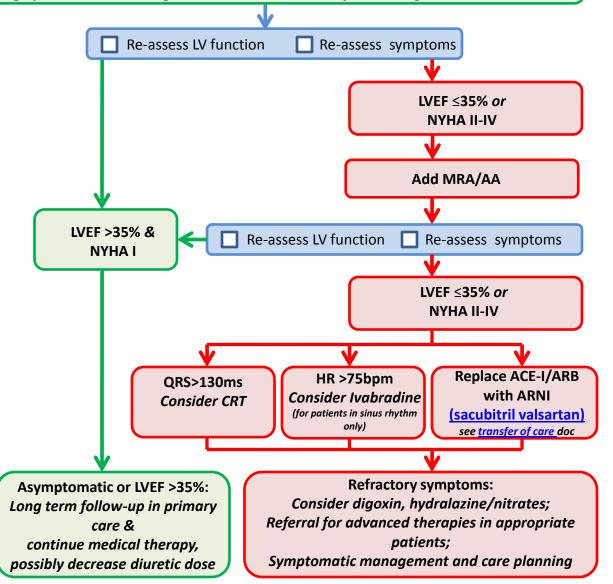
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For use in secondary care only

3i. Expected treatment pathway for confirmed LVSD

Commence ACE-| & Beta-blocker and up-titrate to maximum tolerated licensed dose in primary care

Sign post to HF titration guide or contact community team for guidance/education



Primary care to carry out 6 monthly review for all HF patients (please see General Practice Six Month Review)



If NYHA I-III and LVEF <35% despite OMT or history of VF/VT - implant ICD



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4. Expected treatment pathway for confirmed HF-pEF (LVEF >40%) read code G583 (symptomatic HF with preserved ejection fraction) GPs identify and treat co-morbidities **Hypertension** No evidence for disease Renal dysfunction modifying therapies in Diabetes HF-pEF Pulmonary disease Ischaemic heart disease Prescribe diuretics to relieve symptoms & signs of congestion and manage comorbidities General Practice carry out 6 monthly review for all HF patients (please see pathway 5)

The ESC recently termed heart failure with LVEF from 41-49% as **heart failure** with mid-range ejection fraction (HF-mrEF). There are currently no evidence based therapies for this group, these patients can therefore be treated as HF-pEF pending clinical trials.

See pathway 2 for referral guidance

Need advice?

For support with education and management <u>contact locality team</u>

For complex management advice or admission avoidance email KHP consultant mailbox <u>gst-tr.KHP-HFconsultant@nhs.net</u> for GSTT and KCH

For **SGH** email stgh-tr.heartfailureteam@nhs.net



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5. General Practice Six Month HF Review

(NICE guidelines state that stable patients should be reviewed every six months)

1. Symptoms	 □ Are symptoms stable (<u>NYHA Class</u>) □ Pulse assessment rate &rhythm □ Weight □ Fluid assessment (dehydrated/overloaded)?
2. Medication Review	 (HF-REF/LVSD only) □ ACE inhibitor at maximum tolerated licensed dose? □ Beta-blocker at maximum tolerated licensed dose? □ MRA/AA (e.g. spironolactone or eplerenone) at maximum tolerated licensed dose?
3. Bloods	Renal function, potassium, sodium stable? Haemoglobin
4. Other	Consider: Optimal management of co-morbidities e.g. hypertension, diabetes Cardiac rehabilitation or recommend exercise Depression/anxiety screen Nutrition assessment (MUST tool) Smoking cessation, if appropriate Alcohol screen (FAST) Flu/pneumococcal vaccine Contraception review, if appropriate Neurological status assessment Annual ECG – if QRS newly >130ms refer for reassessment Self management advice and educational films

If your patient is symptomatic despite optimal medical therapy, or there is evidence of rapid deterioration, please contact your locality team

For complex management advice or admission avoidance email consultant mailbox gst-tr.KHP-HFconsultant@nhs.net for KCH and GSTT

For SGH email stgh-tr.heartfailureteam@nhs.net





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Glossary

ACE-I: Angiotensin Converting Enzyme Inhibitor

AA: Aldosterone Atagonist

ARB: Angiotensin Receptor Blockers

ARNI: Angiotensin-Receptor/Neprilysin Inhibitor

BPM: Beats Per Minute

Chol: Cholesterol

CRT: Cardiac Resynchronisation Therapy

ECG: Electrocardiogram

Echo: Echocardiogram

EMIS: Egton Medical Information System

ESC: European Society of Cardiology

FAST: Fast Alcohol Screening Tool

FBC: Full Blood Count

GP: General Practitioner

GSTT: Guy's and St Thomas' NHS Foundation

Trust

HbA1c: Glycated Haemoglobin Test

HF: Heart Failure

HR: Heart Rate

HFrEF: Heart Failure with Reduced Ejection

Fraction

HFmrEF: Heart Failure with Mid-range Ejection

Fraction

HFpEF: Heart Failure with Preserved Ejection

Fraction

ICD: Implantable Cardioverter Defibrillator

KCH: King's College Hospital NHS Foundation

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KHP: King's Health Partners

LV: Left Ventricle

LVEF: Left Ventricular Ejection Fraction

LVSD: Left Ventricular Systolic Dysfunction

MI: Myocardial infarction

MRA: Mineralocorticoid Receptor Antagonist

MUST: Malnutrition Universal Screening Tool

NHS: National Health Service

NICE: National Institute for Clinical Excellence

NTPro-BNP: N-terminal pro B-Type Natriuretic

Peptide

NYHA: New York Heart Association

OMT: Optimal Medical Therapy

Pg/mL: Picogram/Milliliter

SGH: St George's Hospital

TFTs: Thyroid function tests

U&E: Urea and Electrolytes

VF: Ventricular Fibrillation

VT: Ventricular Tachycardia





