





Barnsley Severe Hyperlipidaemia Pathway

To be used in alongside the Barnsley Lipid Management Pathways for Primary and Secondary Prevention Pathway in development)

SEVERE HYPERLIPIDAEMIA

If TC>7.5mmol/L and/or LDL-C>4.9mmol/L and/or non-HDL-C >5.9mmol/L, a personal and/or family history of confirmed CHD (<60 years) and with no secondary causes:

suspect familial hypercholesterolaemia (possible heterozygous FH)

Do not use QRISK risk assessment tool

For referrals to Sheffield, see Sheffield FH referral criteria (page 2)*

DIAGNOSIS AND REFERRAL

Take fasting blood for repeat lipid profile to measure LDL-C.

Use the **Simon Broome** or **Dutch Lipid Clinic Network** (DLCN) criteria to make a **clinical diagnosis of FH**.

Refer to Lipid Clinic for further assessment if **clinical diagnosis of FH**OR contact medicine.information1@nhs.net (for attention of Lead Pharmacist, Medicines Information and Cardiology, BHNFT) for advice and guidance;

if TC>9.0mmol/L and/or

LDL-C >6.5mmol/L and/or

non-HDL-C >7.5mmol/L or

Fasting triglycerides > 10mmol/L (regardless of family history) (see page 4 Barnsley Lipid Management for Primary Prevention of CVD in adults)

TREATMENT TARGETS IN FH

If clinical diagnosis of FH and/or other risk factors present follow the recommended treatment management pathway for primary or secondary prevention as for non-FH (see relevant Barnsley Guideline), **BUT**

Aim to achieve at least a 50% reduction of LDL-C (or non-fasting non-HDL-C) from baseline.

Consider specialist referral for further treatment and/or consideration of PCSK9i therapy (also see NICE eligibility criteria on page 2) IF

- they are assessed to be at very high risk of a coronary event**
- OR therapy is not tolerated
- OR LDL-C remains >5mmol/L (primary prevention)
- OR LDL-C remains >3.5mmol/L (secondary prevention) despite maximal tolerated statin and ezetimibe therapy.

**defined as any of the following:

- Established coronary heart disease
- · Two or more other CVD risk factors

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*STH referral pathway for adult patients with query familial hypercholesterolaemia (FH): http://nww.sth.nhs.uk/NHS/LaboratoryMedicine/Guidelines/LMGRP0032%20Query%20Familial%20Hypercholesterolaemia.pdf

PCSK9i NICE eligibility criteria

NICE eligibility criteria for PCSK9i and fasting LDL-C thresholds are summarised below:

NICE TA393 Alirocumab	Without CVD	With CVD	
NICE TA394 Evolocumab		High risk ¹	Very High Risk ²
Primary heterozygous-FH	LDL-C > 5.0 mmoL/L	LDL-C > 3.5 mmoL/L	

¹ History of any of the following: ACS; coronary or other arterial revascularisation procedures; CHD, ischaemic stroke; PAD.

PCSK9 inhibitors have a red classification on the Barnsley Formulary.

Abbreviations and Definitions

CHD: coronary heart disease
CVD: cardiovascular disease
FH: familial hypercholesterolaemia
LDL-C: low density lipoprotein cholesterol

non-HDL-C: non-high density lipoprotein cholesterol

PCSK9i: proprotein convertase subtilisin kexin 9 monoclonal antibody inhibitor

TC: total cholesterol

non-HDL-C = TC minus HDL-C

LDL-C = non-HDL-C minus (Fasting triglycerides ^a/2.2)

Acknowledgements

This guidance has been adapted from the NHS Accelerated Access Collaborative Summary of National Guidance for Lipid Management for Primary and Secondary Prevention of CVD. <u>Summary-of-national-guidance-for-lipid-management-for-primary-and-secondary-prevention-of-cardiovascular-disea.pdf (england.nhs.uk)</u>

Development Process

This guidance was endorsed by the Barnsley Area Prescribing Committee on 13th July 2022.

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² Recurrent CV events or CV events in more than 1 vascular bed (that is, polyvascular disease).

a valid only when fasting triglycerides are less than 4.5 mmol/L