

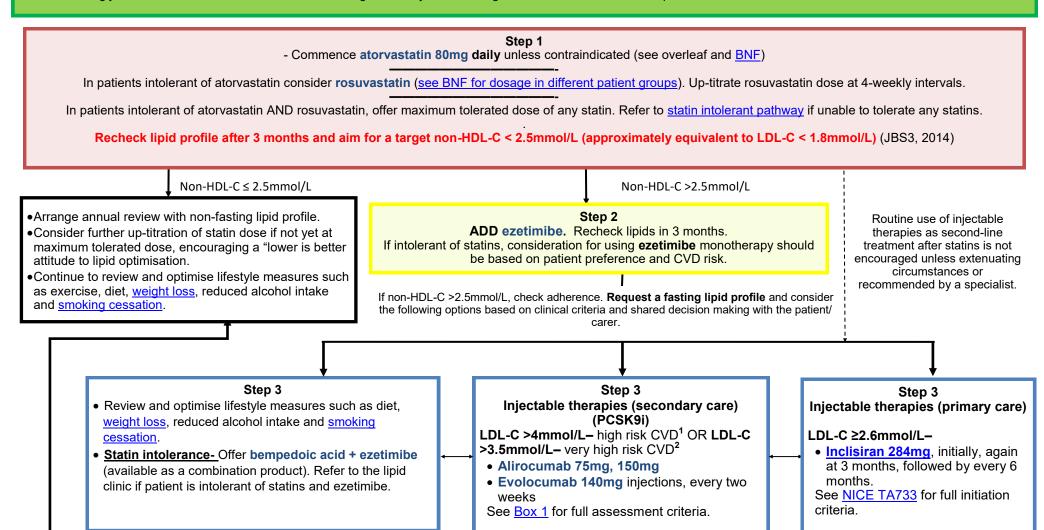


LIPID OPTIMISATION FOR THE SECONDARY PREVENTION OF CARDIOVASCULAR DISEASE IN ADULTS: A 3 Step Approach

Offer statin therapy to adults with CVD, this includes angina, previous MI, revascularisation, ischaemic stroke or TIA or symptomatic peripheral arterial disease. Do not delay statin treatment if a person has acute coronary syndrome. In acute ischaemic stroke commence statin at 48 hours post-stroke.

Address all modifiable risk factors (smoking, diet, obesity, alcohol intake, physical activity, blood pressure and HbA1c) at every given opportunity.

Do not delay statin treatment in secondary prevention while managing modifiable risk factors. See <u>Lipid modification for primary prevention of CVD</u> for more details on the requirements for baseline clinical assessment as well as providing lifestyle advice and managing modifiable risk factors. Refer to the <u>managing raised triglycerides</u> guidelines in people with baseline serum triglyceride levels >10mmol/l and consider excluding secondary causes of high cholesterol when treatment options fail to reduce cholesterol to recommended levels.







Safety Monitoring

Check LFTs at baseline and then at 3 and 12 months after initiating statin treatment or dose change. Monitor more frequently if abnormal results. LFTs should also be checked 3 months after starting treatment with bempedoic acid + ezetimibe (see also cautions below).

Statins: Stop if ALT is >3x upper limit of normal (ULN) and seek specialist advice. Routine CK testing is not required unless patient reports symptoms of unexplained muscle pain, tenderness or weakness. Stop if CK is >5xULN and seek specialist advice.

Cautions and Contraindications

Statins should be used with caution in those who are; elderly, have high alcohol intake (>50units/ week), previous history of liver disease or deranged transaminases or at increased risk of muscle toxicity (e.g. those with a personal or family history of muscular disorders, previous history of muscular toxicity, renal impairment or hypothyroidism). For patients at increased risk of muscle effects baseline CK should be done and if levels are >5x ULN levels should be rechecked in 7 days. Statin should <u>not</u> be started if CK level is still >5xULN.

Bempedoic acid is not recommended in people with moderate or severe liver impairment due to the unknown effect of prolonged exposure to ezetimibe. Discontinue if persistently high liver transaminases (>3xULN) or if hyperuricaemia accompanied with symptoms of gout appear.

Pregnancy- Statins are contraindicated in pregnancy and breastfeeding. Bempedoic acid with ezetimibe is **also** contraindicated in pregnancy and breastfeeding. These should be discontinued prior to conception or as soon as pregnancy is recognized. Adequate contraception should be used in those taking statins or bempedoic acid with ezetimibe.

Use of the other lipid lowering drugs included in this guidance is not recommended in pregnancy or breastfeeding unless recommended by a specialist, once the risks and benefits of treatment versus cardiovascular disease risk has been assessed.

Box 1 : Refer for PCSK9i treatment if LDL meets these levels

With CVD

High risk¹

Very High Risk 2

Non- Familial

Hypercholesterolemia

LDL-C > 4.0 mmol/L LDL-C > 3.5 mmol/L

Primary heterozygous-

Familial

Hypercholesterolemia

LDL-C > 3.5mmol/L

¹ History of any of the following: ACS; coronary or other arterial revascularisation procedures; coronary hear disease (CHD), ischaemic stroke; peripheral vascular disease (PAD). ² Recurrent CV events or CV events in more than 1 vascular bed (that is, polyvascular disease).

Bempedoic acid with ezetimibe (Nustendi®) and inclisiran (Leqvio®) are black triangle (▼) and as such are subject to additional monitoring. Any suspected adverse effects to these drugs should therefore be reported under the Yellow Card scheme to the MHRA. Please refer to the current BNF or SPC for full prescribing information.

References

JBS3 (2014)- Joint British Societies' consensus recommendations for the prevention of cardiovascular disease (JBS3)

NHSE/AAC (2021)- Summary of national guidance for lipid management for primary and secondary prevention of CVD

NICE TA694 (2021)- Bempedoic acid with ezetimibe for treating primary hypercholesterolaemia or mixed dyslipidaemia

NICE TA385 (2016)- Ezetimibe for treating primary hypercholesterolaemia and non-familial hypercholesterolaemia

NICE TA393 (2016)- Alirocumab for treating primary hypercholesterolaemia and mixed dyslipidaemia

NICE TA394 (2016)- Evolocumab for treating primary hypercholesterolaemia and mixed dyslipidaemia

NICE TA733 (2021)- Inclisiran for treating primary hypercholesterolaemia or mixed dyslipidaemia

Adapted from Sheffield Joint Lipid optimisation in secondary prevention of CVD pathway.

Approved by Doncaster and Bassetlaw APC & MOG – September 2022 Review date– September 2025

Box 2- Statin Intolerance

Statin intolerance is defined as the presence of <u>clinically</u> <u>significant</u> adverse effects from statin therapy that are considered to represent an unacceptable risk to the patient or that may result in adherence to therapy being compromised.

See the NHSE AAC statin intolerance pathway for establishing statin intolerance in people at high CVD risk and for whom a high intensity statin has been recommended.