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North Central London Joint Formulary Committee

Guidance for the management of hypertriglyceridaemia

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NCL JFC is funded by and provides advice to Acute Trusts and Clinical Commissioning Groups in NCL.

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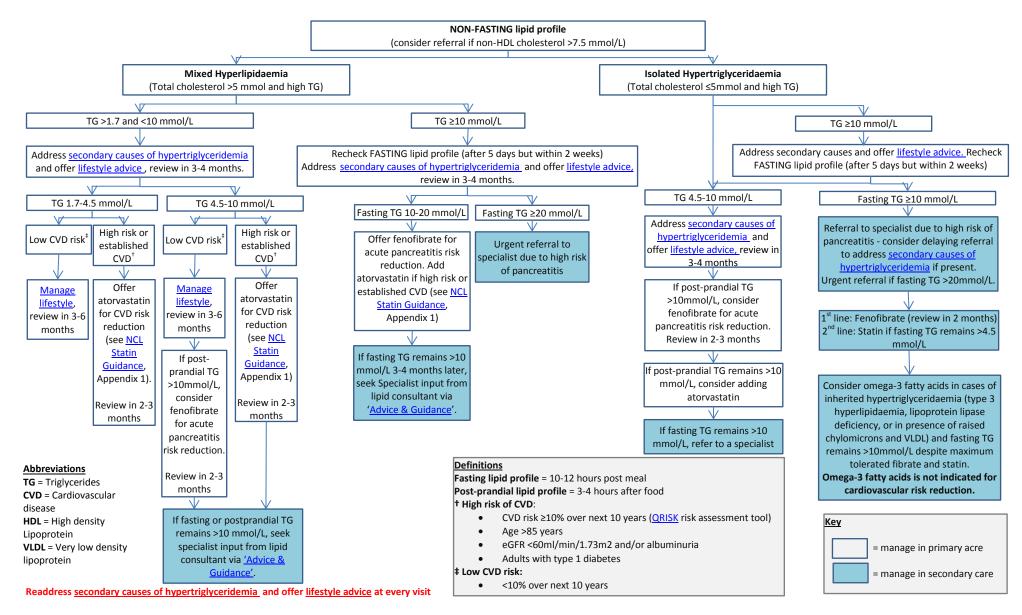
Document control

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Document management

Groups / Individuals who have overseen the development of this guidance:	Dr Devika Nair, Royal Free London NCL JFC Support Pharmacist
Groups which were consulted and have given approval:	Royal Free London Drug and Therapeutics Committee
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Management of raised triglyceride concentration



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Secondary causes of hypertriglyceridemia ¹	<u>Lifestyle advice</u>
Obesity, often in association with an elevation in serum cholesterol	Lifestyle modifications to reduce triglyceride levels are similar to those recommended for individuals
• Diabetes mellitus, where there is a relationship to poor glycaemic control and, in type 2	at high risk of cardiovascular disease ¹ (full lifestyle advice published in <u>NICE CG181²</u>)
diabetes, obesity	Cardioprotective diet including:
 Nephrotic syndrome, often in association with hypercholesterolemia, and renal failure Hypothyroidism, often in association with hypercholesterolemia 	 Restrict consumption of high glycaemic index/load foods as well as refined sugars, fruit juices, and high fructose beverages¹
 Serum total cholesterol and triglyceride concentrations normally increase markedly during pregnancy 	 Increased consumption of oily fish ^{1,2} (pregnant women to limit their oily fish to no more than 2 portions per week and to avoid marlin, shark and swordfish²)
Medicines:	 People with very high triglycerides (>10mmol/L) may benefit from the specialist advice from
 Oestrogen replacement administered orally 	a lipid clinic regarding a very low fat diet
 Tamoxifen can cause marked hypertriglyceridemia in a minority of women 	Physical activity (at least 150 minutes of moderate intensity aerobic activity or 75 minutes of
 Beta blockers, with the exception of carvedilol 	vigorous intensity aerobic activity)
 Immunosuppressive medications, such as glucocorticoids and cyclosporine 	Weight management for those who are who are overweight or obese
 HIV antiretroviral regimens 	Avoid binge drinking and limit alcohol intake to national recommended limits
 Oral retinoids (e.g. isotretinoin) 	Smoking cessation (primarily CV protection)
Investigations for causes of hypertriglyceridemia	Monitoring fibrate therapy
Urine dipstick (nephrotic syndrome)	• Recheck lipid levels within 3 months of initiation, aiming for a triglyceride level <4.5 mmol/L
Blood tests:	• Check serum creatinine at baseline, within 3 months of initiation of treatment and at least
 Lipid profile (total cholesterol, HDL, non-HDL and triglycerides) 	annually thereafter (more frequently if clinical indicated).
 Fasting glucose or HbA1c 	 Hold treatment if creatinine levels >50% ULN (upper limit of normal)
 Renal function 	 Consider dose reduction if renal function declines in line with the SPC / BNF
 Thyroid function tests (TFTs) 	• Monitor liver transaminase levels every 3 months during the first 12 months of treatment and
 Liver function (LFTs) 	thereafter periodically.
	 Discontinue therapy if AST or ALT levels increase to more than 3x ULN.
	 If symptoms indicative of hepatitis occur (e.g. jaundice, pruritus), and diagnosis is confirmed by laboratory testing, fenofibrate therapy should be discontinued
	• Baseline CK should only be checked in those who may already be taking a medicine that will increase the risk of myopathy when used concomitantly with fibrate, such as statin therapy.
	• Routine CK monitoring for asymptomatic individuals is not recommended. Monitor CK for patients with muscle weakness/pain to assess severity of muscle damage and aid the decision to continue treatment

For information on prescribing statins and lipid modification for the prevention of CVD see:

• North Central London Statin Prescribing & Lipid Modification Guideline for the Prevention of Cardiovascular Disease

o https://www.ncl-mon.nhs.uk/wp-content/uploads/Guidelines/2_Lipid_modification_prevention_cardiovascular_disease.pdf

Advice and Guidance: Accessible via eRS: <u>https://nww.ebs.ncrs.nhs.uk/.</u> The Royal Free Lipid Centre supports Advice and Guidance and can be identified on eRS as "Lipid Management Service-Cardiology-Royal Free Hospital-RAL"

Acknowledgement: Sections of this guideline were taken, with permission, from the South East London APC 'Guidance for the Management of Hypertriglyceridaemia' (July 2018)

Expert opinion: There are no national guidelines available for the management of hypertriglyceridaemia therefore the pathway structure is based on expert opinion from Royal Free London NHS Foundation Trust Lipid Clinic. References:

1. UpToDate. Hypertriglyceridemia. (2019).

2. National Institute for Health and Care Excellence. CG181: Cardiovascular disease: risk assessment and reduction, including lipid modification. (2016). Available at: https://www.nice.org.uk/guidance/cg181/chapter/1-Recommendations. (Accessed: 16th January 2019)

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