

PF-PTD-91

HDL Cholesterol



Synonyms

Clinical Indication

High Density Lipoprotein Cholesterol

Cholesterol circulates in blood bound to lipoproteins; the two main ones being low density lipoprotein (LDL) and high density lipoprotein (HDL). HDL concentrations are inversely correlated with risk of atherosclerosis, that is, high levels are beneficial. However, a causal relationship has not been established.

Modest increases in total cholesterol may be due to increased HDL cholesterol so it is important that HDL is measured before any treatment is initiated.

High-density lipoprotein (HDL) cholesterol should be measured (alongside the lipid profile):

- to achieve the best estimate of CVD risk
- before starting lipid modification therapy for the primary prevention of CVD
- monitoring patients on high-intensity statin treatment

Lipid profile

Combined Pathology manual Blood form or ICE request

On request.

Same day

Reported as part of lipid profile

Analysis

Request Form

Part of Profile / See Also

Availability / Frequency of

Turnaround Time

Patient Preparation

Sample Requirements

Specimen Type

Volume

Acceptable Containers

Serum and plasma

2 ml



Yellow top (SST) tube



Green top (lithium-heparin)

tube



paediatric orange top (lithium-heparin)



paediatric green top (lithium-heparin)

Plain serum samples may also be used.



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Reference Range & Units Ideally levels should be > 1.0 mmol/L Interferences Drugs such as beta blockers, benzodiazepines, and anabolic steroids may lower HDL cholesterol **Interpretation & Clinical** Exercise, weight loss (in overweight subjects), smoking cessation, and substitution of monounsaturated for saturated fatty acids raise HDL **Decision Value (if applicable)** cholesterol. There is no firm evidence of benefit from drug therapy to target low HDL cholesterol NICE CG187 Cardiovascular disease: risk assessment and reduction, References including lipid modification (2014). Beckman kit insert. **Test code** LIP/FLIP (Part of the lipid profile)

Lab Handling

Analysed from primary tube and stored at 4°C

Serum and plasma stable for 7 days at 2-8°C