

# LIPID PROFILE

## Orderable - LIPIDS

Turn Around Time: 24 hours

### Alternate Name(s):

Cholesterol, Triglyceride, HDL, LDL

### Specimen:

Adult	Pediatric
4.5 mL Green top Vacutainer tube	0-2 years: 0.5 mL Green Microtainer 2-10 years: 1 mL Green top tube

### Collection Information:

Collect blood aseptically in a Vacutainer tube.

Patient must be fasting at least 12 hours.

### Reference Ranges:

See reference ranges and interpretive comments for individual tests.

Increased risk of cardiovascular disease at triglycerides level greater than 2.0 mmol/L; increased risk of acute pancreatitis at triglycerides level greater than 10.0 mmol/L (Lancet 2014;384:626-635).

### Interpretive Comments:

Cholesterol target levels are dependent upon patient 10-year risk of coronary artery disease (Can J Cardiol 2016). "Cardiovascular Age" and the Framingham Risk Score (FRS) calculation is provided at <https://www.ccs.ca/en/resources/calculators-forms>

### Table Treatment Thresholds and Target Lipid Levels\*



**Laboratory:**  
Core Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
See individual tests:  
Cholesterol, Triglycerides,  
HDL & LDL



**Test Schedule:**  
As required

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Risk Level	Initiate therapy if:	Primary Target LDL-C	Alternate Target
<b>High</b>			
FRS $\geq$ 20%	Consider treatment in all patients	<2.0 mmol/L or <50% decrease LDL-C	Apo B <0.8 g/L  Non HDL-C <2.6 mmol/L
<b>Intermediate</b>			
FRS 10%-19%	LDL-C $\geq$ 3.5 mmol/L  Apo B $\geq$ 1.2 g/L or Non-HDL-C $\geq$ 4.3 mmol/L	<2 mmol/L or >50% decrease in LDL-C	Apo B <0.80 g/L  Non HDL-C <2.6
<b>Low</b>			
FRS <10%	LDL-C $\geq$ 5.0 mmol/L  Familial hypercholesterolemia	>50% decrease in LDL-C	

FRS: Framingham Risk Score

2016 Canadian Cardiovascular Society Guidelines for the management of dyslipidemia for the prevention of cardiovascular disease in the adult. Can J Cardiol. 2016;32:1263-82