

## Reference Intervals and Reporting Comments for Lipid Panel (Cholesterol, Triglycerides, HDL-C, LDL-C, non-HDL-C)

Effective September 18, 2023

Test	Adult (≥20 y)		Pediatric and Adolescent (<20y)	
	Decision Limit	Interpretation	Decision Limit	Interpretation
Cholesterol, Total	<5.20 mmol/L	Total cholesterol and HDL-c used for risk assessment and to calculate non-HDL-c.	<5.20 mmol/L	Desired: < 4.40 mmol/L Borderline: 4.40 - < 5.20 mmol/L Increased risk: ≥ 5.20 mmol/L
Triglycerides	<1.70 mmol/L	If nonfasting, triglycerides <2.00 mmol/L acceptable	0-9 yrs: <1.10 mmol/L	If fasting: Desired: < 0.80 mmol/L Borderline: 0.80 - <1.10 mmol/L Increased risk: ≥ 1.10 mmol/L  If nonfasting, triglycerides are, on average, elevated 20% above fasting levels, however individual patients may vary.
			10-19 yrs: <1.50 mmol/L	If fasting: Desired: < 1.00 mmol/L Borderline: 1.00 - <1.50 mmol/L Increased risk: ≥ 1.50 mmol/L  If nonfasting, triglycerides are, on average, elevated 20% above fasting levels, however individual patients may vary.
HDL-c	Male: ≥1.00 mmol/L	HDL-C < 1.00 mmol/L indicates risk for metabolic syndrome.	≥1.00 mmol/L	Desired: >1.20 mmol/L Borderline: 1.00 - 1.20 mmol/L Increased risk: <1.00 mmol/L
	Female: ≥1.30 mmol/L	HDL-C < 1.30 mmol/L indicates risk for metabolic syndrome.		HDL-C <0.30 mmol/L may be associated with genetic dyslipidemias. Refer to specialist.
LDL-c ( <i>HIN equation</i> )	<3.50 mmol/L	LDL-C was calculated using the NIH equation.  For additional LDL-C and non-HDL-C thresholds based on risk stratification, refer to 2021 CCS Guidelines.  ( <i>for conditional comments see test page</i> )	<3.40 mmol/L	Desired: < 2.80 mmol/L Borderline: 2.80 - <3.40 mmol/L Increased risk: ≥ 3.40 mmol/L  LDL-C was calculated using the NIH equation.  Refer to 2022 CPCA guidelines for additional LDL-C thresholds.
non-HDL-c	<4.20 mmol/L	( <i>for conditional comments see test page</i> )	<3.75 mmol/L	Desired: < 3.10 mmol/L Borderline: 3.10 - <3.75 mmol/L Increased risk: ≥ 3.75 mmol/L