



SHRADDHADEEP GREEN CROSS

PATHOLOGY LABORATORY

Pt's Name: Tejal Patel
Ref by: SWAMINARAYAN DHAM .
Sample no:5944

Age: 38 Years/Female
Reg. Date: 07/01/2018 08:52
Lab Collection

LIPID PROFILE

Sample: Serum

Test name	Result	Units	Biological Reference interval
Cholesterol (CHOD-POD)	:178.87	mg/dl	Normal : <160 Near or Above Normal : 160-199 Boderline :200-239 High : 240-279 Very High : >280
Triglyceride (GPO)	:142.07	mg/dl	Normal : < 150 Borderline high : 150-199 High : 200-499 Very high : >500 <i>TG > 400 MG/dl, sample is lipimic So, ADV:LDL value can be erroneous Adv: repeat after clearance of lipemia & 10 - 12 hrs of proper fasting</i>
Direct HDL (Enzymatic)	:42.23	mg/dl	High risk : < 40 Low risk : > 40
Direct LDL (Enzymatic)	:126.39	mg/dl	Optimal : < 100 Near optimal : 100-129 Borderline High : >160 High : 160-189 Very High : >190
LDL Cholesterol (Calculation)	:108.2	mg/dl	Normal : 65-100
Non - HDL Cholesterol (Calculation)	:136.6	mg/dl	Very good : <100 Good : 100-160 Borderline : 160-189 High : 190-219 Very high :>220
VLDL Cholesterol (Calculation)	:28.41	mg/dl	Upto 34



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Total CHOL/HDL Ratio : 4.24
(Calculation)

Average risk : 4.4-6.1
Moderate risk : 6.1-11.0
High risk : >11.0

LDL/HDL Ratio : 2.99
(Calculation)

Desirable level/low risk : 4.0-5.0
Borderline level/moderate risk : 5.0-6.0
Elevated level/ high risk : >6.0

Triglyceride level changes acutely & temporarily because of previous night's diet , fasting / non fasting state & changes in the blood sugar level.

Direct LDL Cholesterol is the most powerful indicator for coronary atherosclerosis.

NCEP guideline recommends Direct LDL measurement as therapy target and assessment

Calculated LDL may be misleading (Low) in presence of chylomicrons and abnormal lipoproteins.

Usually Calculated LDL is Lower than Direct LDL

Extended Lipid (On demand)

Apolipoprotein A-1	: Not done	Men : 104-202 mg/dL	Women : 108-225 mg/dL
Apolipoprotein B	: Not done	Men: 66-133 mg/dL	Women: 60-117 mg/dL
Apo B/Apo A-1 Ratio	: Not done	Male : half average 0.4 - 1.0 twice average 0.9 - 1.5 three average >1.5	Female : half average 0.3 - 0.9 twice average 1.0 - 1.6 three average >1.6
Lipoprotein - a	: Not done	<30 mg/dl	

ApoB/Apo A1 ratio is strongly associated with future coronary heart disease than LDL Cholesterol

ApoB/Apo A1 ratio is not depending on traditional Lipid Variable

High lipoprotein (a) level is considered to be the most sensitive parameter for the development of coronary heart disease, correlate with atherosclerosis and strokes. It should be determined in patients suffering from dyslipoproteinemia, diabetes mellitus, renal failure and cardiovascular or cerebrovascular disorders and premature onset of atherosclerosis

-----End of Report-----

Dr. Dinesh Rathod

M D Pathology