

Patient Name TESTINGRNV,ABNORMAL	Patient ID SA00064990	Age 46	Gender F	Order # SA00064990
Ordering Phys CLIENT,CLIENT				DOB 10/12/1967
Client Order # SA00064990	Account Information			Report Notes
Collected 12/23/2013 04:00	C7028846-DLMP Rochester SDSC 2 - Client Support Rochester, MN 55901			
Printed 01/17/2014 15:33				

Test	Flag	Results	Unit	Reference Value	Perform Site*
LDL and HDL NMR with Lipids, P					
RECEIVED: 12/24/2013 13:58 REPORTED: 12/24/2013 14:00					
LDL and HDL Particles NMR, P					
Total LDL Particle Concentration	H	3400	nmol/L	<1300	MCR
Small LDL Particle concentration	H	860	nmol/L	<527	MCR
Total HDL Particle concentration	L	21.0	mcmol/L	>34.9	MCR
Large HDL Particle concentration	L	3.0	mcmol/L	>7.3	MCR
Interpretation					
<p>Studies have shown that elevated LDL particle concentration is associated with increased risk for coronary heart disease. Increased concentrations of small LDL particles may be observed in association with the metabolic syndrome and pre-diabetes. Statins effectively reduce the number of LDL particles, but do not generally influence the size distribution of the LDL particles. Fibrates and niacin have been shown to increase LDL particle size. Decreased HDL particles have been associated with increased risk for cardiovascular disease. HDL particle concentration may be increased by exercise, fish oil, or alcohol consumption in moderation. Fibrates, niacin, and combination therapy (statin + niacin) have been shown to effectively increase HDL particle size.</p> <p>Laboratory Developed Test Small LDL, Total HDL and Large HDL Particle Concentrations were validated by LipoScience, Inc., 2500 Sumner Boulevard, Raleigh NC 27616</p>					
Cholesterol, Total, CDC, P	H	250	mg/dL		MCR
-- REFERENCE VALUE -- NCEP guidelines (ages 18y and up) Desirable: <200 Borderline high: 200-239 High: > or =240					
Triglycerides, CDC, P	H	380	mg/dL		MCR
-- REFERENCE VALUE -- NCEP guidelines (ages 18y and up) Normal: <150 Borderline high: 150-199 High: 200-499 Very high: > or =500					
HDL Cholesterol, CDC, P	L	12	mg/dL		MCR
-- REFERENCE VALUE -- NCEP guidelines					

Performing Site Legend on Last Page of Report

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* Report times for Mayo performed tests are CST/CDT

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Test	Flag	Results	Unit	Reference Value	Perform Site*
(ages 18y and up) Low: <40 Normal: 40-59 High : > or =60					
Calculated LDL	H	162	mg/dL		MCR
-- REFERENCE VALUE -- NCEP guidelines (ages 18y and up) Optimal: <100 Near Optimal: 100-129 Borderline high: 130-159 High: 160-189 Very high: > or =190					
Non-HDL Cholesterol	H	238	mg/dL		MCR
-- REFERENCE VALUE -- NCEP guidelines Desirable: <130 Borderline high: 130-159 High: 160-189 Very high: > or =190					

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:
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