



LabCorp Seattle
550 17th Avenue Ste 300
Seattle, WA 98122-5789

Phone: 206-861-7000

Specimen Number 160-535-0175-0		Patient ID		Control Number 62014243941	Account Number 09149190	Account Phone Number 866-999-4041	Route 09
Patient Last Name GREENFIELD				Account Address PROFESSIONAL CO-OP SERVICE INC			
Patient First Name BENJAMIN		Patient Middle Name		850 West Dania Beach Blvd Dania Beach FL 33004			
Patient SS#	Patient Phone 208-883-7705	Total Volume					
Age (Y/M/D) 34/05/19	Date of Birth 12/20/81	Sex M	Fasting Yes	Additional Information			
Patient Address 8515 N ARGONNE RD SPOKANE WA 99217							
Date and Time Collected 06/08/16 09:14	Date Entered 06/08/16	Date and Time Reported 06/12/16 06:35ET	Physician Name HURST, B	NPI 1366580102	Physician ID GADC1207		

Tests Ordered
NMR LipoProf wSubCls+Graph; Lipid Panel With LDL/HDL Ratio; Testosterone, Total, LC/MS; Cortisol; Luteinizing Hormone(LH), S; FSH, Serum; Aldosterone LCMS, Serum; ACTH, Plasma; Prolactin; C-Peptide, Serum; Testosterone, Free, Direct; Venipuncture; Cardiovascular Report

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
-------	--------	------	-------	--------------------	-----

NMR LipoProf wSubCls+Graph

LDL Particle Number					01
LDL-P	909		nmol/L	<1000	01
			Low	< 1000	
			Moderate	1000 - 1299	
			Borderline-High	1300 - 1599	
			High	1600 - 2000	
			Very High	> 2000	
Lipids					01
LDL-C	109	High	mg/dL	0 - 99	
			Optimal	< 100	
			Above optimal	100 - 129	
			Borderline	130 - 159	
			High	160 - 189	
			Very high	> 189	

Comment:

LDL-C is inaccurate if patient is non-fasting.

HDL-C	105		mg/dL	>39	01
Triglycerides	46		mg/dL	0 - 149	01
Cholesterol, Total	223	High	mg/dL	100 - 199	01
LDL and HDL Particles					01
HDL-P (Total)	41.5		umol/L	>=30.5	01
Small LDL-P	<90		nmol/L	<=527	01
LDL Size	21.4		nm	>20.5	01

** INTERPRETATIVE INFORMATION**

PARTICLE CONCENTRATION AND SIZE

<--Lower CVD Risk Higher CVD Risk-->

LDL AND HDL PARTICLES	Percentile in Reference Population				
	High	75th	50th	25th	Low
HDL-P (total)	>34.9	34.9	30.5	26.7	<26.7

GREENFIELD, BENJAMIN		160-535-0175-0	Seq # 1167
-----------------------------	--	-----------------------	------------

06/12/16 06:35 ET

FINAL REPORT

Page 1 of 4

This document contains private and confidential health information protected by state and federal law.

©2004-16 Laboratory Corporation of America © Holdings

If you have received this document in error, please call 800-877-5227

All Rights Reserved

DOC1 Ver: 1.49



LabCorp Seattle
550 17th Avenue Ste 300
Seattle, WA 98122-5789

Phone: 206-861-7000

Patient Name GREENFIELD, BENJAMIN					Specimen Number 160-535-0175-0		
Account Number 09149190	Patient ID	Control Number 62014243941	Date and Time Collected 06/08/16 09:14	Date Reported 06/12/16	Sex M	Age(Y/M/D) 34/05/19	Date of Birth 12/20/81

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
Small LDL-P	Low <117	25th 117	50th 527	75th 839	High >839
LDL Size	<-Large (Pattern A)-> 23.0	20.6	<-Small (Pattern B)-> 20.5	19.0	

Comment:

Small LDL-P and LDL Size are associated with CVD risk, but not after LDL-P is taken into account.

01

These assays were developed and their performance characteristics determined by LipoScience. These assays have not been cleared by the US Food and Drug Administration. The clinical utility of these laboratory values have not been fully established.

Insulin Resistance/Diab. Risk

Large VLDL-P	0.8	nmol/L	<=2.7	01
Small LDL-P	<90	nmol/L	<=527	01
Large HDL-P	16.9	umol/L	>=4.8	01
VLDL Size	41.4	nm	<=46.6	01
LDL Size	21.4	nm	>=20.8	01
HDL Size	10.4	nm	>=9.2	01
Insulin Resistance Score				01
LP-IR Score	<25		<=45	01

INSULIN RESISTANCE / DIABETES RISK MARKERS
<--Insulin Sensitive Insulin Resistant-->
Percentile in Reference Population

Large VLDL-P	Low	25th	50th	75th	High
	<0.9	0.9	2.7	6.9	>6.9
Small LDL-P	Low	25th	50th	75th	High
	<117	117	527	839	>839
Large HDL-P	High	75th	50th	25th	Low
	>7.3	7.3	4.8	3.1	<3.1
VLDL Size	Small	25th	50th	75th	Large
	<42.4	42.4	46.6	52.5	>52.5
LDL Size	Large	75th	50th	25th	Small
	>21.2	21.2	20.8	20.4	<20.4
HDL Size	Large	75th	50th	25th	Small
	>9.6	9.6	9.2	8.9	<8.9
Insulin Resistance Score					
LP-IR SCORE	Low	25th	50th	75th	High

GREENFIELD, BENJAMIN		160-535-0175-0	Seq # 1167
-----------------------------	--	-----------------------	------------

06/12/16 06:35 ET

FINAL REPORT

Page 2 of 4

This document contains private and confidential health information protected by state and federal law.
If you have received this document in error, please call 800-877-5227

©2004-16 Laboratory Corporation of America © Holdings
All Rights Reserved
DOC1 Ver: 1.49



LabCorp Seattle
550 17th Avenue Ste 300
Seattle, WA 98122-5789

Phone: 206-861-7000

Patient Name GREENFIELD, BENJAMIN					Specimen Number 160-535-0175-0		
Account Number 09149190	Patient ID	Control Number 62014243941	Date and Time Collected 06/08/16 09:14	Date Reported 06/12/16	Sex M	Age(Y/M/D) 34/05/19	Date of Birth 12/20/81

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
	<27	27	45	63	>63

Comment: LP-IR Score is inaccurate if patient is non-fasting. 01

The LP-IR score is a laboratory developed index that has been associated with insulin resistance and diabetes risk and should be used as one component of a physician's clinical assessment. Neither the LP-IR score nor the subclasses listed above have been cleared by the US Food and Drug Administration.

NMR PDF Image . 01

Lipid Panel With LDL/HDL Ratio

Cholesterol, Total	210	High	mg/dL	100 - 199	02
Triglycerides	38		mg/dL	0 - 149	02
HDL Cholesterol	107		mg/dL	>39	02

Comment 02

According to ATP-III Guidelines, HDL-C >59 mg/dL is considered a negative risk factor for CHD.

VLDL Cholesterol Cal	8		mg/dL	5 - 40	
LDL Cholesterol Calc	95		mg/dL	0 - 99	
LDL/HDL Ratio	0.9		ratio units	0.0 - 3.6	

Please Note: 02

LDL/HDL Ratio

	Men	Women
1/2 Avg.Risk	1.0	1.5
Avg.Risk	3.6	3.2
2X Avg.Risk	6.2	5.0
3X Avg.Risk	8.0	6.1

Testosterone, Total, LC/MS

Testosterone, Total, LC/MS	496		ng/dL		03
----------------------------	-----	--	-------	--	----

Reference Range:

Adult Males

>18 years 348 - 1197

Comment:

Adult male reference interval is based on a population of lean males up to 40 years old.

Cortisol	23.3		ug/dL		02
-----------------	------	--	-------	--	----

Cortisol AM	6.2 - 19.4
Cortisol PM	2.3 - 11.9

Luteinizing Hormone(LH), S

LH	1.8		mIU/mL	1.7 - 8.6	02
----	-----	--	--------	-----------	----

GREENFIELD, BENJAMIN		160-535-0175-0	Seq # 1167
-----------------------------	--	-----------------------	------------

06/12/16 06:35 ET

FINAL REPORT

Page 3 of 4

This document contains private and confidential health information protected by state and federal law.

©2004-16 Laboratory Corporation of America © Holdings

If you have received this document in error, please call 800-877-5227

All Rights Reserved

DOC1 Ver: 1.49



LabCorp Seattle
550 17th Avenue Ste 300
Seattle, WA 98122-5789

Phone: 206-861-7000

Patient Name GREENFIELD, BENJAMIN					Specimen Number 160-535-0175-0		
Account Number 09149190	Patient ID	Control Number 62014243941	Date and Time Collected 06/08/16 09:14	Date Reported 06/12/16	Sex M	Age(Y/M/D) 34/05/19	Date of Birth 12/20/81

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
FSH, Serum					
FSH	4.9		mIU/mL	1.5 - 12.4	02
Aldosterone LCMS, Serum					
Aldosterone	4.4		ng/dL	0.0 - 30.0	01
ACTH, Plasma					
ACTH	47.9		pg/mL	7.2 - 63.3	02
ACTH reference interval for samples collected between 7 and 10 AM.					
Prolactin	6.6		ng/mL	4.0 - 15.2	02
C-Peptide, Serum					
C-Peptide	1.5		ng/mL	1.1 - 4.4	02
C-Peptide reference interval is for fasting patients.					
Testosterone, Free, Direct					
Free Testosterone(Direct)	5.6	Low	pg/mL	8.7 - 25.1	01
Cardiovascular Report					
Interpretation	Note				04
Supplement report is available.					
PDF Image	.				04

01	BN	LabCorp Burlington 1447 York Court, Burlington, NC 27215-3361	Dir: William F Hancock, MD
02	SE	LabCorp Seattle 550 17th Avenue Ste 300, Seattle, WA 98122-5789	Dir: Daniel Toweill, MD
03	ES	Esoterix Endocrinology 4301 Lost Hills Road, Calabasas Hills, CA 91301-5358	Dir: Samuel Pepkowitz, MD
04	LITIL	Litholink Corporation 2250 West Campbell Park Drive, Chicago, IL 60612-3502	Dir: Mitchell Laks, PhD
For inquiries, the physician may contact Branch: 800-762-4344 Lab: 206-861-7000			

GREENFIELD, BENJAMIN		160-535-0175-0	Seq # 1167
-----------------------------	--	-----------------------	------------

06/12/16 06:35 ET

FINAL REPORT

Page 4 of 4

This document contains private and confidential health information protected by state and federal law.
If you have received this document in error, please call 800-877-5227

©2004-16 Laboratory Corporation of America © Holdings
All Rights Reserved
DOC1 Ver: 1.49

Specimen Number 160-535-0175-0		Patient ID		Account Number 09149190	Account Phone (866) 999-4041	Account Fax (866) 999-4041
Patient Last Name GREENFIELD		Patient First Name BENJAMIN		Account Address PROFESSIONAL CO-OP SERVICE INC 850 West Dania Beach Blvd Dania Beach, FL 33004		
Age 34	Date of Birth 12/20/1981	Sex M	Fasting YES			
Control Number 62014243941		NPI 1366580102				
Date Collected 06/08/2016	Date Entered 06/08/2016	Date and Time Reported 06/10/2016 11:40 AM ET		Physician ID & Name GADC1207 - HURST, B		Page Number 1 of 2

NMR LipoProfile® test

Reference Range¹

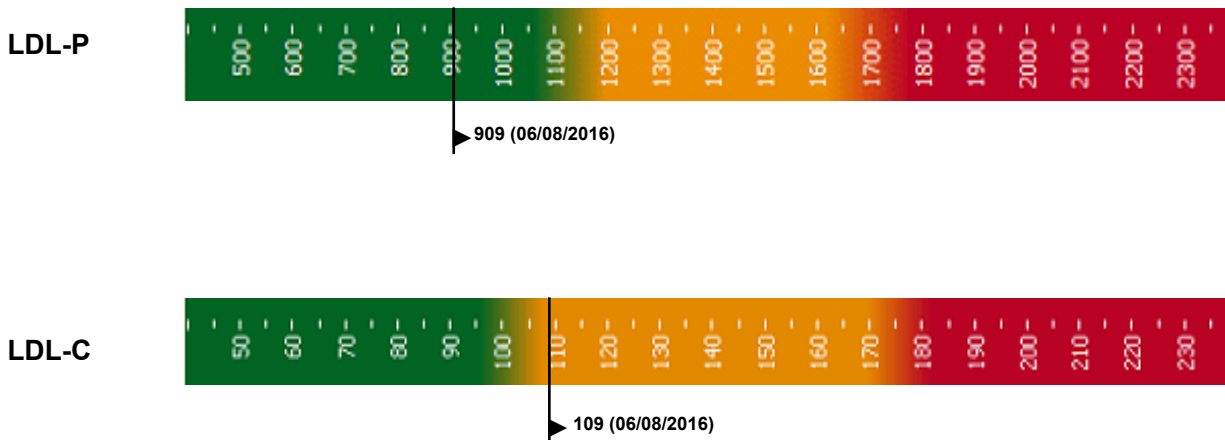
	Percentile ¹	20th	50th	80th	95th
nmol/L	Low	Moderate	Borderline High	High	Very High
LDL-P (LDL Particle Number)	909	< 1000	1000 - 1299	1300 - 1599	1600 - 2000

1. Reference population (5,362 men and women) not on lipid medication enrolled in the Multi-Ethnic Study of Atherosclerosis (MESA). Mora, et al. Atherosclerosis 2007.

Lipids

mg/dL	Optimal	Near or Above Optimal	Borderline High	High	Very High
LDL-C (calculated)	109	100 - 129	130 - 159	160 - 189	≥ 190
		109			
HDL-C	105	Triglycerides	46	Total Cholesterol	223
Desirable ≥ 40		Desirable < 150		Desirable < 200	

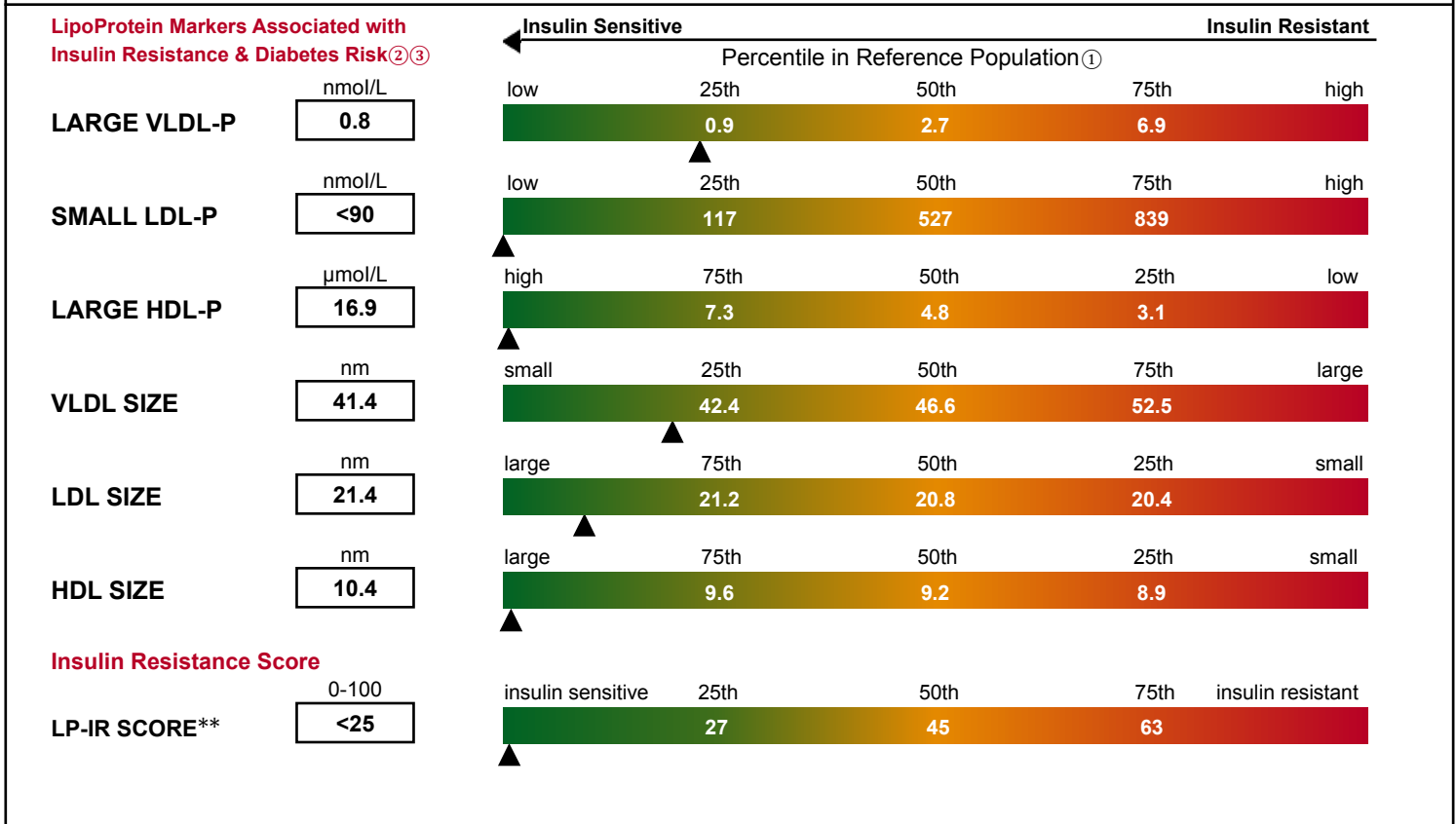
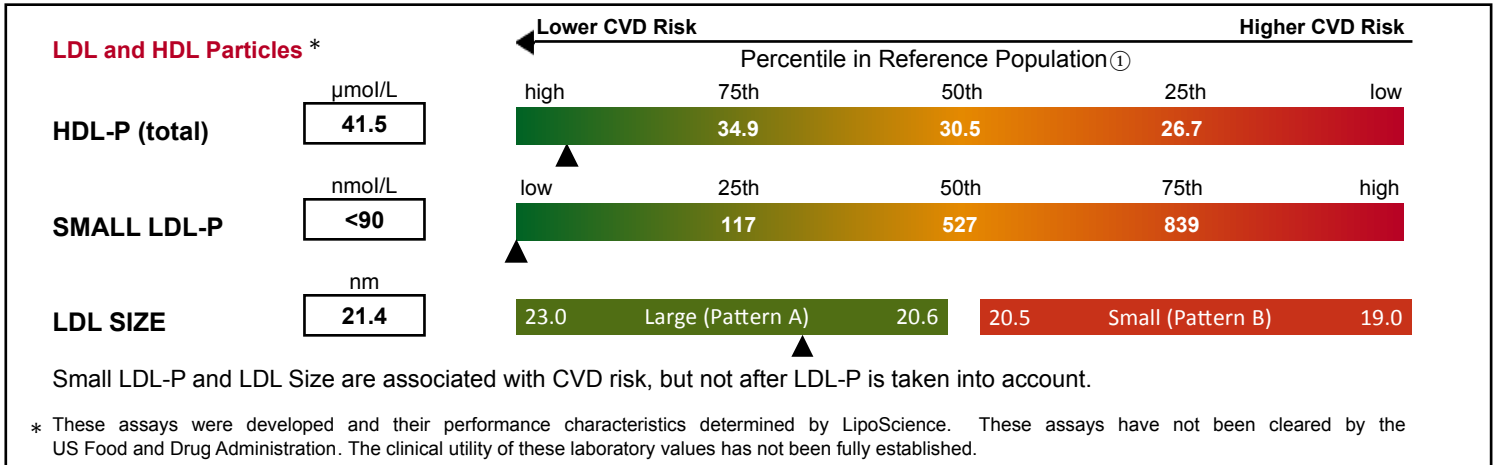
Historical Reporting



The NMR LipoProfile® test may be covered by one or more issued or pending patents, including U.S. Patent Nos. 6,518,069; 6,576,471; 6,653,140; and 7,243,030	CLIA Number 34D0655059
--	---------------------------

Specimen Number 160-535-0175-0		Patient ID		Account Number 09149190	Account Phone (866) 999-4041	Account Fax (866) 999-4041
Patient Last Name GREENFIELD		Patient First Name BENJAMIN		Account Address PROFESSIONAL CO-OP SERVICE INC 850 West Dania Beach Blvd Dania Beach, FL 33004		
Age 34	Date of Birth 12/20/1981	Sex M	Fasting YES			
Control Number 62014243941		NPI 1366580102				
Date Collected 06/08/2016	Date Entered 06/08/2016	Date and Time Reported 06/10/2016 11:40 AM ET		Physician ID & Name GADC1207 - HURST, B		Page Number 2 of 2

PARTICLE CONCENTRATION AND SIZE



** The LP-IR score is a laboratory developed index that has been associated with insulin resistance and diabetes risk and should be used as one component of a physician's clinical assessment. Neither the LP-IR score nor the subclasses listed above have been cleared by the US Food and Drug Administration.

① LipoScience reference population comprises 4,588 men and women without known CVD or diabetes and not on lipid medication.
 ② Shalauraova I et al., Metab Syndr Relat Disord 2014; 12:422-9. ③ Mackey RH et al., Diab Care 2015; 38:628-36.

Accessions: 16053501750

DISCLAIMER: These assessments and treatment suggestions are provided as a convenience in support of the physician-patient relationship and are not intended to replace the physician's clinical judgment. They are derived from the national guidelines in addition to other evidence and expert opinion. The clinician should consider this information within the context of clinical opinion and the individual patient.

SEE GUIDANCE FOR CARDIOVASCULAR REPORT: National Heart, Lung, and Blood Institute's Third Report of the NCEP Expert Panel on Detection, Evaluation and Treatment of High Blood Cholesterol in Adults (ATP III) (2002. NIH publication 02-5215); Brunzell et al. Diabetes Care 2008; 31(4):811-82; Contois et al. Clin Chem 2009; 55(3):407-419; Stone NJ et al. 2013 ACC/AHA guideline on the treatment of blood cholesterol to reduce atherosclerotic cardiovascular risk in adults: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. Circulation 2014;129(suppl 2):S1-S45.

Note: Please refer to your LabCorp Report for all results as well as any test-specific and specimen-specific comments.

Cardiovascular Report

Patient Assessment

Current available clinical information suggests the patient's risk is at least LOW. If the patient has two or more major risk factors, the risk category is intermediate. If the patient has CHD or a CHD risk equivalent, the risk category is high. If patient does not have CHD or a CHD risk equivalent, consider use of the Pooled Cohort Equations to estimate 10-year CVD risk, as individuals with greater than 7.5% risk may warrant more intensive therapy. The calculator can be found at: <http://tools.cardiosource.org/ASCVD-Risk-Estimator/>

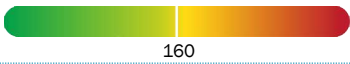


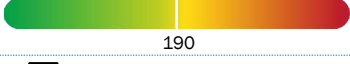


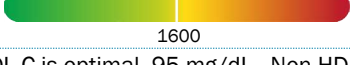
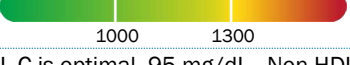
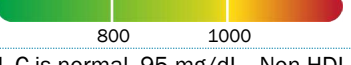
Insulin resistance, obesity, excessive alcohol use, smoking, thyroid disease, nephrotic syndrome, liver disease, and certain medications are all causes of secondary dyslipidemia. Consider evaluation if clinically indicated.

Therapeutic lifestyle changes are always valuable to achieve optimal blood lipid status (diet, exercise, weight management).

Lipid Management

Select one patient risk category based upon medical history and clinical judgment. Additional risk factors such as personal or family history of premature CHD, smoking, and hypertension modify a patient's goals of therapy. In CVD prevention, the intensity of therapy should be adjusted to the level of patient risk. MODERATE intensity statin therapy generally results in an average LDL-C reduction of 30% to less than 50% from the untreated baseline. Examples include (daily doses): atorvastatin 10-20 mg, rosuvastatin 5-10 mg, simvastatin 20-40 mg, pravastatin 40-80 mg, lovastatin 40 mg. HIGH intensity statin therapy generally results in an average LDL-C reduction of 50% or more from the untreated baseline. Examples include (daily doses): atorvastatin 40-80 mg and rosuvastatin 20 mg.

▽ = PATIENT'S RESULT

	Patient Risk Category (select one)		
ANALYTE / RESULT	LOW	INTERMEDIATE	HIGH
LDL-C 95 mg/dL	▽ 	▽ 	▽ 
non-HDL 103 mg/dL	▽ 	▽ 	▽ 
LDL-P 909 nmol/L	▽ 	▽ 	▽ 
Lipid Assessment	LDL-C is optimal, 95 mg/dL. Non-HDL Cholesterol is optimal, 103 mg/dL. LDL-P is acceptable, 909 nmol/L.	LDL-C is optimal, 95 mg/dL. Non-HDL Cholesterol is optimal, 103 mg/dL. LDL-P is optimal, 909 nmol/L.	LDL-C is normal, 95 mg/dL. Non-HDL Cholesterol is normal, 103 mg/dL. LDL-P is normal, 909 nmol/L.
Treatment Suggestions	Considerations for use of statin therapy include family history of premature atherosclerotic disease, elevated coronary artery calcium score, ankle-brachial index < 0.9, elevated CRP, or elevated lifetime CVD risk.	Factors that may influence statin use include family history of premature atherosclerotic disease, elevated coronary artery calcium score, ankle-brachial index < 0.9, elevated CRP, or elevated lifetime CVD risk. If statin cannot be tolerated or increased, alternatives include use of an intestinal agent (ezetimibe or bile acid sequestrant) or niacin.	If at least a 50% LDL reduction from baseline has not been achieved, begin or increase statin. If statin cannot be tolerated or increased, alternatives include use of an intestinal agent (ezetimibe or bile acid sequestrant) or niacin.