

Lipoprotein(a) Cardiovascular Health Test

Date Presented - July 6, 2019

Ordering Doctor

Name: Dr. Jody Smith
License #: 00515515
UPIN #: A999Z9
NPI #: 9999999999

Patient Details

Jane Smith
Patient Number: 100523
DOB: Jan 1, 1980
Gender: Female
Ph: (234) 234-2343

Specimen Details

Collected: July 1, 2019
Sent: July 1, 2019
Tested: July 5, 2019
Source: Capillary Blood

Welcome To Your Results

Dear Jane Smith,

We received your small volume blood sample, and tested it for the presence of Lipoprotein(a).

The testing platform used to produce the results described in this report has been shown to detect these biomarkers to a high level of accuracy when they are present.

When shared with your healthcare professional, we are confident this report will provide insight to inform healthcare decisions that may improve your health and quality of life.

You and your healthcare professional can trust the science behind these results, as our lab partners have completed validation studies comparing this process to established testing methods.

For any questions about this test, please visit us at www.imaware.health or connect with us via email at support@imaware.health.

In good health,
The imaware team

Medical Advisory Team



Dr. Tsimikas
Director of Vascular Medicine
at the UC San Diego Health



Dr. Davidson
Preventive Cardiology
at University of Chicago

Lipoprotein(a) Cardiovascular Health Test – Your Results Summary

Jane, you **appear to have slightly elevated Lipoprotein(a) levels**

based on biomarker sampling. Patient specific information is listed below

BIOMARKER SAMPLING

A biomarker (“biological marker”) refers to a category of objective signs that indicate medical state. Elevated biomarker levels in your blood can signal the presence of a disease. We tested your blood for Lp(a), a biomarker associated with cardiovascular disease:

Lipoprotein(a)

SLIGHTLY ELEVATED



PATIENT SPECIFIC INFORMATION

We included specific aspects of your history and condition as part of this test in order to confirm your likelihood.

- You indicated that you don't have a family history of cardiovascular disease
- You indicated that you normal cholesterol levels
- You indicated you do not smoke

Your overall likelihood is compared to the possible scenarios

High Risk

Lp(a) > 50 mg/dL

Medium Risk

Lp(a) 30 - 50 mg/dL

Lower Risk

Lp(a) < 30 mg/dL

Medium Risk

Likelihood of additional risk for Cardiovascular Disease as measured by Lp(a)

Your likelihood estimate is based on biomarker sampling and preconditions:



Your blood sample contained abnormal biomarker levels



You indicated a pre-condition that may increase your likelihood of having this condition

Your Next Steps



Share these results with your doctor, who can review these results and recommend next steps, which may include verification with additional testing, lifestyle or dietary changes.



If your Lp(a) levels are high or you have some of the increasing risk factors, it's important to test all blood-related members of a family given the highly genetic nature of Lp(a).

Lipoprotein(a) Cardiovascular Health Test – Detailed Results

The following pages provide additional information that should be shared with your healthcare professional. Dried blood specimen have been validated for general health screening and abnormal or unexpected results should be confirmed by a diagnostic venous collection.

DETAILED PATIENT RESULTS TABLE

Analyte	Quantitative	Qualitative	Reportable Range	Cutoff	Target Range
Lp(a)	40.0 mg/dL	Slightly Elevated	0.0 – 80.0 mg/dL	50 mg/dL	0 – 30 mg/dL

PATIENT DISEASE AND SYMPTOMS STATUS

- You indicated that you don't have a family history of cardiovascular disease
- You indicated that you normal cholesterol levels
- You indicated you do not smoke

Lipoprotein(a) Test – Detailed Scientific Validation

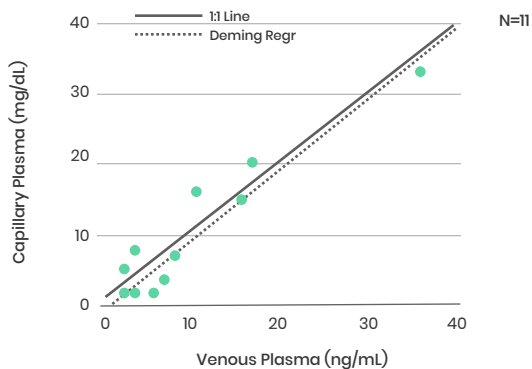
imaware™ tests are tested to be highly accurate and precise. The following data can be reviewed by your medical professional to better understand the validity of the imaware test.

LIPOPROTEIN(A) TEST – SCIENTIFIC VALIDATION

Accuracy

Paired serum and dried serum spot samples containing varying concentrations of Lp(a) were tested. Lp(a) concentrations observed for the dried serum samples versus serum (particle immunoturbidimetric method) were statistically analyzed by simple regression:

N=11		
Correlation Coefficient	0.93	
Slope	0.95	
Intercept	1.59	
	DBS Lp(a)	Comparable Serum Method
Mean Lp(a)	10.00	8.84
Standard Deviation of Range	10.24	10.03



Lipoprotein(a) Cardiovascular Health Test – Additional Information

SCIENTIFIC REFERENCES

1. McCormick SP. Lipoprotein(a): biology and clinical importance. Clin Biochem Rev. 2004;25(1):69–80
2. Tsimikas S. Lipoprotein(a): novel target and emergence of novel therapies to lower cardiovascular disease risk. Curr Opin Endocrinol Diabetes Obes. 2016;23(2):157–164. doi:10.1097/MED.000000000000237.
3. George Thanassoulis. Screening for High Lipoprotein(a). Circulation. 2019;139(12):1493–1496. doi:10.1161/CIRCULATIONAHA.119.038989
4. Tsimikas S, Karwatowska-Prokopczuk E, Gouni-Berthold I, Tardif JC, et al. Lipoprotein(a) Reduction in Persons with Cardiovascular Disease. N Engl J Med. 2020; 382(3): 244–255. doi: 10.1056/NEJMoa1905239
5. Saeed A, Virani SS. Lipoprotein(a) and cardiovascular disease: current state and future directions for an enigmatic lipoprotein. Front Biosci (Landmark Ed) 2018;23:1099–1112.
6. Orsó E, Schmitz G. Lipoprotein(a) and its role in inflammation, atherosclerosis and malignancies. Clin Res Cardiol Suppl. 2017;12(Suppl 1): 31–37. doi:10.1007/s11789-017-0084-1

PERFORMING LABORATORY INFORMATION

- Patient Sample was performed on July 5, 2019 by MyGenetx Laboratory, LLC
- CLIA Number 44D2031868
- Lab Location: 4037 Rural Plains Cir., Suite 150, Franklin, TN 37064
- Lab Director: Jack T. Pearson, M.D. .

TEST NOTES AND LIMITATIONS

- These test results should be shared with your healthcare provider
- This test is not to diagnose any health condition - only your healthcare provider can make that determination, in light of your overall health history and the results of other testing they may decide to order
- Please consult your healthcare provider before making any dietary changes
- Dried blood specimen have been validated for general health screening and abnormal or unexpected results should be confirmed by a diagnostic venous collection.