



Uncover your hidden risk for heart attack and stroke with

(High-Q Plac Test) (Lp-PLA2)

Lipoprotein-Associated Phospholipase- A2

(Latex Enhanced Turbidimetric Immuno Assay (LETIA)



-A new independent predictor of "Coronary Heart Disease"

-Most accurate Heart Attack and Stroke Predictor

-A vascular specific inflammatory marker critical in the formation of rupture prone plaque



Why High Q- Plac Test?



Clinical Utility of Lp-PLA2 (PLAC) Test:

The PLAC test measures the amount of lipoprotein-associated phospholipase-2 (Lp-PLA2) in blood. Lp-PLA2 is an enzyme primarily associated with low density lipoprotein (LDL). LDL carries Lp-PLA2 to the coronary artery walls where it activates an inflammatory response. This makes plaque, if present, more prone to rupture. Because this enzyme is associated with causing inflammation of coronary artery walls, high levels of Lp-PLA2 would there fore seem to indicate an increased risk of heart attack or stroke.

Traditional inflammatory markers, such as hs-CRP, and CRP, whilst recognized as being useful systemic inflammatory markers are not as sensitive for identifying inflammation of the coronary artery walls. As a result, the PLAC Test serves as a specific independent coronary marker.

Lp-PLA2 activity:

The PLAC Test measures Lp-PLA2 activity quantitatively. This assists with the prediction of risk caused by the thickening or hardening of the arteries caused by the build-up of plaque. Given that the majority of heart attacks and strokes are caused by plaque rupture and thrombosis rather than narrowing of the arteries, it would seem that individuals with high levels of Lp-PLA2 might benefit from more aggressive management with therapeutic intervention and/or lifestyle modification.

Why is the Lp-PLA2 (PLAC) test different from other tests?

- Lp-PLA2 is independent of traditional cardiovascular risk factors
- ☐ Lp-PLA2 is an enzyme produced in the plaque itself and its measurement is therefore more specific than other inflammatory markers.
- Increase in Lp-PLA2 levels are not caused by traditional risk factors.
- Imaging tests whilst able to assess the anatomical state of blood vessels, cannot identify plaque that is vulnerable to rupture

The PLAC test helps identify hidden risk:

Lp-PLA2 levels help to identify hidden risk of cardiovascular event that might be missed from the use of more conventional risk factors (eg cholesterol levels, blood pressure, family and smoking history). Lipid levels alone cannot provide a great deal of information on the status of the artery wall whereas Lp-PLA2 is a direct measure of artery wall enzyme activity, independent of other cardiovascular markers.

Cardiovascular diseases (CVDs) are the leading cause of death globally.

An estimated 17.9 million people died from CVDs in 2019, representing 32% of all global deaths. Of these deaths, 85% were due to heart attack and stroke.

Over three quarters of CVD deaths take place in low- and middle-income countries.

Out of the 17 million premature deaths (under the age of 70) due to noncommunicable diseases in 2019, 38% were caused by CVDs.

Most cardiovascular diseases can be prevented by addressing behavioural risk factors such as tobacco use, unhealthy diet and obesity, physical inactivity and harmful use of alcohol.

It is important to detect cardiovascular disease as early as possible so that management with counselling and medicines can begin.

The PLAC Test is recommended for patients with established CVD or patients at moderate to intermediate risk for CVD such as patients with including but not limited to two or more of the following risk factors:

The High Q PLAC Test is recommended for patients with established CVD3 or patients at moderate to intermediate risk for CVD, such as patients with, including but not limited to, two or more of the following risk factors:



Family history



Diabetes



Obesity



Smoker



Males aged ≥ 45 or females ≥ 55



High cholesterol



High blood pressure

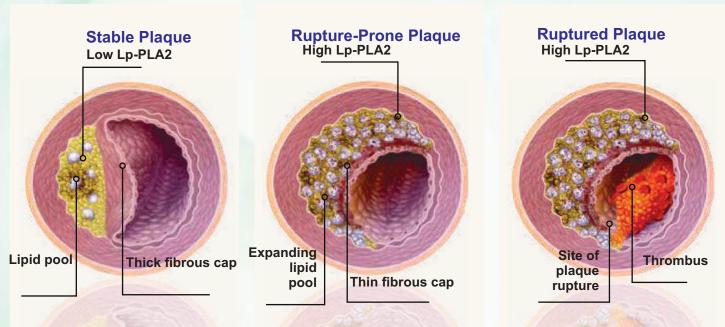
More than 125,000 published patient results confirm the PLAC Test for Lp-PLA2 is the only evidence-based assay for measuring the new modifiable risk factor, lipoprotein-associated phospholipase A², for CVD events.



The PLAC Test clearly identifies active cardiovascular inflammatory disease



The PLAC Test is the only blood test that measures Lp-PLA2 - a vascular-specific inflammatory marker critical in the formation of rupture-prone plaque.

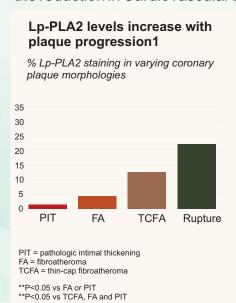


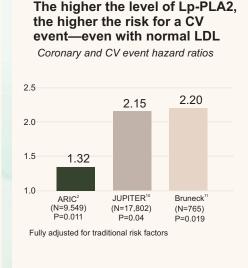
Cholesterol causes a fatty deposit called plaque that builds up inside the walls of the arteries When arterial walls become inflamed, the enzyme Lp-PLA2 is produced within the plaque If the amount of Lp-PLA2 is high, this may indicate that the plaque Is more likely to rupture through the inside lining of the artery into the bloodstream, leading to a dangerous blood clot that could result in heart attack or stroke

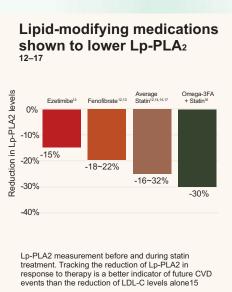
Most cardiovascular events are due to plaque rupture:

"Coronary atherosclerosis is by far the most frequent cause of ischemic heart disease, and plaque disruption with super imposed thrombosis is the main cause of the acute coronary sign of unstable angina, myocardial infarction and sudden death

"The reduction of Lp-PLA2 with statin therapy, independent of baseline Lp-PLA2 Levels, can help predict the reduction in Cardiovascular Disease events"









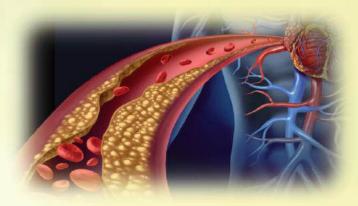
High-Q Plac Test Lipoprotein-associated phospholipase A2



(Latex Enhanced Turbidimetric Immuno Assay)
(LETIA)

Product Features:

Liquid Stable Two Reagents
Two step Fixed Time Assay
Level Calibrators provided
Linearity: 800 ng/mL
Measuring Wavelength 546 nm
Cerum is the preferred specimen
Available as multipurpose reagents and system packs



Interpretation of test results to guide treatment

Risk Levels are reported quantitatively as Low, Medium or High:

Low Lp-PLA2 < 175 ng/ml

Medium Lp-PLA2 175-200 ng/ml

High Lp-PLA2 > 200 ng/ml

High levels of Lp-PLA2 are consistently linked to higher risk of heart attack and stroke in multiple population based studies] Individuals with an elevated PLAC Test result who have two or more other risk factors are at 2 or 3 times the risk of a cardiac event. High blood pressure combined with elevated PLAC levels further raise this risk. More aggressive patient management in the form of lifestyle changes, as well as blood pressure or lipid lowering agents in an attempt to lower the Lp-PLA levels may therefore be advantageous. Further investigations using other independent cardiovascular disease markers (Apo B, Lp(a), hs-CRP etc) as well as scans and imaging may be considered. An elevated PLAC test is an actionable tool, and may indicate a need for more aggressive therapy, including treatment to lower LDL Cholesterol levels. Lipid lowering agents including statins are proven to reduce cardiovascular events. Knowing that there is active disease, rather than just risk, may create a greater sense of urgency in patients to become more compliant with treatment recommendations.

LOW Lp-PLA2 < 175 ng/mL

MEDIUM Lp-PLA2 = 175 - 200 ng/mL

HIGH Lp-PLA2 = Above 200 ng/mL

Lp-PLA2 included in four major guidelines:

American Heart Association/American Stroke Association Guidelines for the Primary Prevention of Stroke

American College of Cardiology Foundation/American Heart Association Guideline for Assessment of Cardiovascular Risk in Asymptomatic Adults

American Association of Clinical Endocrinologists Guidelines for Management of Dyslipidemia and Prevention of Atherosclerosis

European Guidelines on Cardiovascular Disease Prevention in Clinical Practice



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