

SAMPLE REPORT

Dr. EDWARD CHAN



WellLab
www.MalaysiaLaboratory.com
TEL: 03-27277434

Date of Birth : 12-Aug-1961
Sex : F
Collected : 31/Oct/2019
Received: 31/Oct/2019
INTERNATIONAL
PATIENT 1000
Lab id : **Sample**

International Psychology Centre
11-1 Wisma Laxton Jalan Desa
KUALA LUMPUR MALAYSIA 58100
1000



BIOCHEMISTRY

BLOOD - SERUM

LIPIDS

CHOLESTEROL **4.6** 0.0 - 5.5 mmol/L

TRIGLYCERIDES **1.2** 0.2 - 1.5 mmol/L

LIPID STUDIES

HDL(Protective) **1.7** > 1.2 mmol/L

LDL(Atherogenic) **2.4** 0.5 - 3.5 mmol/L

Cholesterol/HDL Ratio **2.7**

LDL/HDL RATIO (Risk Factor) **1.4** 0.0 - 3.2

Trig/HDL Ratio **0.7** 0.5 - 1.7 RATIO

Lipoprotein (a) **1.4** 0.0 - 75.0 nmol/L

LIPOSCREEN LDL Subfractions2

Very Low Density Lipoprotein (VLDL) **0.8*H** 0.1 - 0.6 mmol/L

Intermediate Density Lipoprotein (IDL-1) **0.4** 0.1 - 0.6 mmol/L

Intermediate Density Lipoprotein (IDL-2) **0.3** 0.1 - 0.4 mmol/L

Intermediate Density Lipoprotein (IDL-3) **0.2** 0.1 - 0.6 mmol/L

Low Density Lipoprotein (LDL-1) **0.56** 0.10 - 1.50 mmol/L

Low Density Lipoprotein (LDL-2) **0.44** 0.10 - 0.80 mmol/L

Low Density Lipoprotein (LDL-3) **0.26*H** 0.00 - 0.20 mmol/L

Low Density Lipoprotein (LDL-4) **0.21*H** 0.00 - 0.01 mmol/L

Low Density Lipoprotein (LDL-5) **0.21*H** 0.00 - 0.01 mmol/L

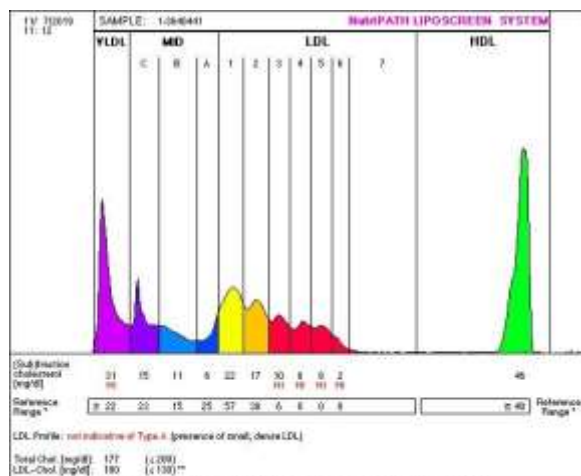
Low Density Lipoprotein (LDL-6) **0.05*H** 0.00 - 0.01 mmol/L

Low Density Lipoprotein (LDL-7) **0.00** 0.00 - 0.01 mmol/L

LDL Phenotype Pattern Type B ABNORMAL

Mean Particle Size **253.0*L** > 268.0 Angstrom

Oxidised LDL **61.0** < 117.0 IU/L



(*) Result outside normal reference range

(H) Result is above upper limit of reference rang (L) Result is below lower limit of reference range



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LIPOSCREEN Comments

RESULT INTERPRETATION

The Liposcreen LDL Subfractions test provides a superior indicator for Coronary Artery Disease (CAD) risk than other conventionally available lipid profiles. Many individuals with normal LDL and HDL cholesterol levels remain at risk from CAD as these conventional tests do not convey the detail of the CAD risk. Liposcreen additionally quantifies the different subfractions.

Liposcreen clearly identifies a patient's LDL phenotype profile;

This patient has a profile Not indicative of Type A, which is deemed **ABNORMAL**.

This is due to the presence of elevated levels of small dense LDLs (LDL3, LDL4, LDL5 and LDL6).

Of note is the elevated VLDL, which when significantly elevated is also deemed highly atherogenic.

Elevations of IDL3 can be attributable to raised Lipoprotein (a) levels.

Also of note is the low LDL Mean Particle size of 253 Angstrom, which indicates the presence of LDLs of a size capable of penetrating the endothelial lining and causing the development of atheromatous plaques.

Type A Deemed a normal profile.
 Predominance of large/buoyant (less atherogenic) LDL subclasses (LDL 1 and 2).
 Mean Particle Size of > 263 Angstrom (A).
 Elevated Cholesterol, Normal Triglycerides, Elevated Apo B

Type B Deemed an ABNORMAL profile.
 Predominance of small/dense (more atherogenic) LDL subclasses (LDL3, 4, 5, 6, 7).
 Mean Particle Size of < 258 Angstrom (A).
 Raised Cholesterol, Raised Triglycerides, Raised VLDL, Low HDLC
 This profile is the designated atherogenic lipoprotein phenotype, consistent with an increased risk of CAD. It is also It is also characteristically prevalent in insulin-resistant states such as Metabolic Syndrome and Type 2 Diabetes mellitus.

Follow up Liposcreen testing, for this patient, is recommended in 06 months.

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**Lipid Profile Comment****TRIG/HDL RATIO COMMENT:**

HDL is closely related to triglycerides. Commonly, patients with elevated triglycerides also have low HDL levels, and also tend to have elevated levels of clotting factors in their blood stream, which is unhealthy in protecting against heart disease. The triglyceride/HDL ratio is found to be one of the better predictors of heart disease. Research shows that people with an elevated ratio of triglycerides to HDL have 16 times the risk of heart attack as those with the low/normal.

Therefore, in adults, the triglyceride/HDL ratio should ideally be below 2.0 .

TRIG/HDL Reference Range:

< 0.9	Considered ideal	(minimal risk)
> 1.7	High	(moderate risk)
> 2.6	Very High	(high risk)

Tests ordered: LipOx

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