

LDL Cholesterol

Clinical Significance and Laboratory Measurement

1. Classification of lipoproteins based on differences in physical and chemical properties include:

- a. Cholesterol, Triglycerides, Phospholipids and proteins
- b. Chylomicrons, cholesterol and triglycerides
- c. VLDL, IDL, LDL, HDL and Chylomicrons

2. LDL Cholesterol is:

- a. Found to be beneficial for preventing CHD when levels are above 100mg/dL.
- b. Found to be a key factor in the pathogenesis of atherosclerosis and CHD
- c. Not the primary target of patient therapy.

3. NCEP ATP III guidelines:

- a. Outline strategy for primary prevention of CHD
- b. Recommend Friedewald formula as a reference method for measurement of LDL
- c. Recommend drug therapy for patients with HDL levels below 40mg/dL.

4. The LDL measurement is a very important part of the NCEP ATP III guidelines because:

- a. Triglyceride to cholesterol ratio in VLDL molecule is 5:1
- b. It is the primary target of patient therapy
- c. When measured directly, LDL can not be reported for patients with high triglycerides.

5. The National performance goals for the LDL cholesterol values include:

- a. Total error of less or equal to 12%, total precision of less or equal to 4% and bias limit of less or equal to 4%
- b. Total error of less or equal to 10%, total precision of less or equal to 5% and bias limit of less or equal to 5%
- c. Total error of less or equal to 4%, total precision of less or equal to 10% and bias limit of less or equal to 12%



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