







Assessment of Proteins status

Albumin

- Half-life: 18-20 day
- Body pool size (g\kg body weight):3-5
- Clinical use: Sever malnutrition
- Influencing factor:
- Hydration status; renal and liver disease; trauma, surgery, sepsis; edema; dietary protein; burns; zinc status; hypothyroidism









Prealbumin

- Half-life: 2 day
- Body pool size (g\kg body weight):0.010
- Clinical use:
- Influencing factor:
- Stress, hyperthyroidism, active chronic inflammatory disease, dietary protein, steriod administration.





- Haematocrit
- Indicator of: Proportional volume of red blood cells (RBCs) in whole blood.
- Advantages:
- Simple to measure.
- Disadvantages:
- Same as haemoglobin; depends on factors affecting centrifuge e.g. stable power supply.







Blood Glucose

- A blood glucose test measures the amount of a sugar called glucose in a sample of your blood.
- The test may be done while you are fasting or at random.
- If you are having a fasting glucose blood test, you should NOT eat or drink for 8 hours before the test.

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Glucose Level	Indication
From 70 to 99 mg/dL (3.9 to 5.5 mmol/L)	Normal fasting glucose
From 100 to 125 mg/dL (5.6 to 6.9 mmol/L)	Impaired fasting glucose (pre- diabetes)
126 mg/dL (7.0 mmol/L) and above on more than one testing occasion	Diabetes

Blood Glucose

- Oral Glucose Tolerance Test (OGTT)
- Levels applicable except during pregnancy. Sample drawn 2 hours after a 75-gram glucose drink.

Glucose Level	Indication
Less than 140 mg/dL (7.8 mmol/L)	Normal glucose tolerance
From 140 to 200 mg/dL (7.8 to 11.1 mmol/L)	Impaired glucose tolerance (pre-diabetes)
Over 200 mg/dL (11.1 mmol/L) on more than one testing occasion	Diabetes



Serum lipid test

- LDL: 70-130 mg/dl (lower numbers are better).
- HDL: more than 40-60 mg/dl (high numbers are better).
- **Total cholesterol:** less than 200 mg/dl (lower numbers are better).
- **Triglycerides:** 10-150 mg/dl (lower numbers are better).











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