#### Procedure:

- i) Clean the site with an antiseptic and wrap an elastic band around the arm to allow blood to fill the veins.
- ii) With the help of needle, draw 5 ml blood from an arm vein into a yellow top tube.
- iii)Serum is needed, for that allows 650 bood to clot and separate by centrifugation.

# Pretest patient care: 4000

- An overnight est before esting is recommended, however nonfasting specimens may also be taken.
- > A normal diet should be consumed for 7 days.
- > The patient should abstain from alcohol for 48 hours before testing.
- Drugs like contraceptive pills should be avoided prior to test as they alter the cholesterol levels.

Values for Cholesterol			
	Normal level	Borderline level	High level
Children & Adolescents (12-18 yrs.)	<170 mg/dl	170-199 mg/dl	>200 mg/dl
Adults	140-199 mg/dl	200-239 mg/dl	> 240 mg/dl

## Posttest patient care:

- Interpret test results and counsel appropriately.
  Cholesterol levels >200 mg/dl should be retented and the results averaged. If the two results differ by >10 %, a third tent field be done.
  Once hypecholesterological has been enablished, the diet should be lower in animal fats and should retented has with polyunsaturated fats.
  Fruits, vegetables and whole-grain products should be increased.
- At least 6 months of dietary therapy should be tried before initiating cholesterolreducing drug therapy.

Drug therapy involves lovastatin, simvastatin, fluvastatin, clofibrate, etc.

## Clinical implications:

## 1. Elevated cholesterol levels occur with the following conditions:

Hyperlipoproteinemia, cholestasis, hepatocellular disease, Nephrotic syndrome, Chronic renal failure, hyporthyroidism, poorly controlled diabetes mellitus, alcoholism, glycogen storage disease (von Gierke's disease), Werner's syndrome, Diet high in cholesterol and fats and Obesity.

## Procedure:

- i) Clean the site with an antiseptic and wrap an elastic band around the arm to allow blood to fill the veins.

- Alcohol should not be consumed for at least 24 hours before test.
- A person should be on a stable diet for 3 weeks.

Withhold all medications for at least 24 hours before testing

Values for HDL Cholesterol	
Normal HDL Level	
More than 45 mg/dl	
40 mg/dl or higher	
50 mg/dl or higher	