Hematocrit (Hct) or Packed Cell Volume (PCV)

Ratio (in percent) of packed red cells in total whole blood (%)

Normal values:

Men: 40- 52% Women: 37-47% Newborn: 50- 62%

Capillary Haematocrit Tube



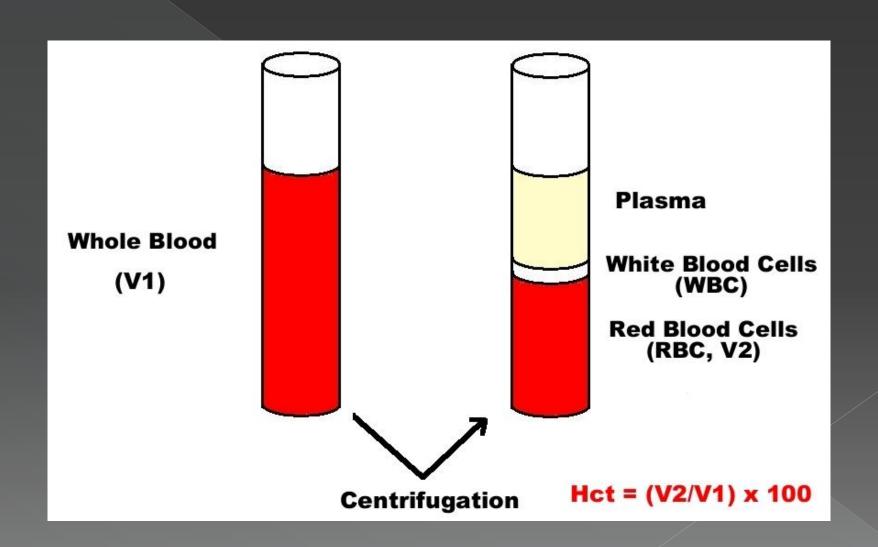


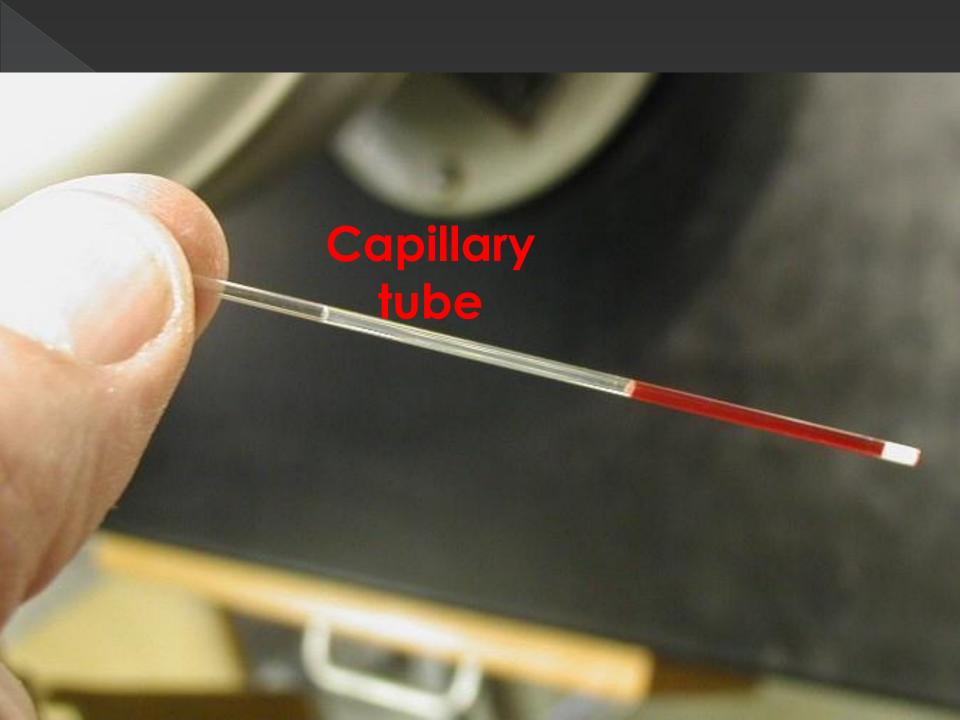
Procedure:

- 1. Mix the blood sample thoroughly.
- 2. Fill blood into capillary tubes for up to 3/4 of its length.
- 3. Seal bottom of the tube with oily-clay sealer.
- 4. Clean outside the tube with tissue paper nicely.
- 5. Place the tubes in to the rotor, adjust the bottom of the tube to close to the outer edge of the rotor.
- 6. Close inner lid tightly, then close the outer lid.
- 7. Centrifuge for 5 minutes.
- 8. Open the lids after the roter was completely stopped.
- 9. Read the value with Hct reader or ruler.



HCT





Red Blood cell Indices

Mean Corpuscular Volume (MCV)

 (μm³)

 Mean Corpuscular Hemoglobin (MCH)

 (pg)

 Mean Corpuscular Hemoglobin Concentration (MCHC)

(% or g/dL)

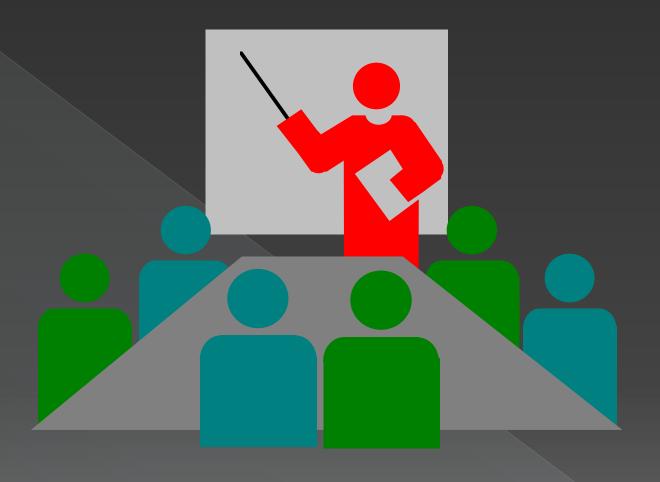
Blood Indices (cont.)

MCV = Hct (%) x 10 / RBC (in millions / cu.mm.) normal range = 74 - 97 (μ^3)

MCH = Hb (g/dL) x 10 / RBC (in million / cu.mm.) normal range = 27 - 32 (pg)

MCHC = Hb (g/dL) x 100 / Hct (%)

normal range = 30 - 36 (% or g/dL)



Thank You For Your Attention