

## **Packed cell volume ( PCV ) (Hematocrit , Hct)**

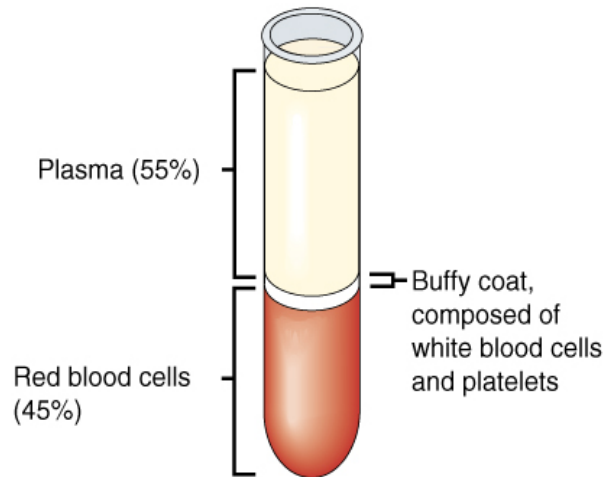
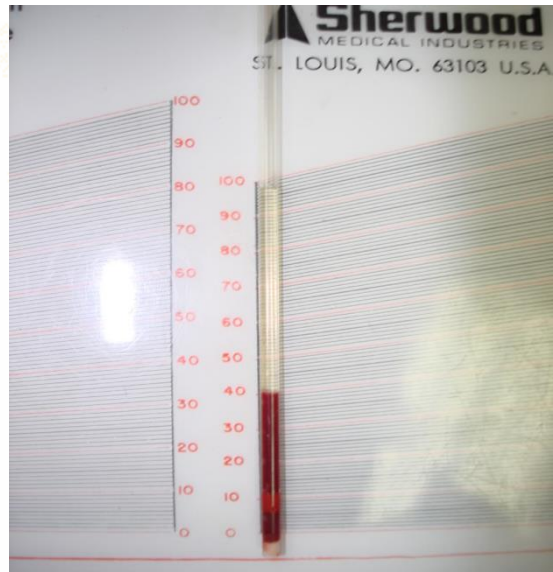
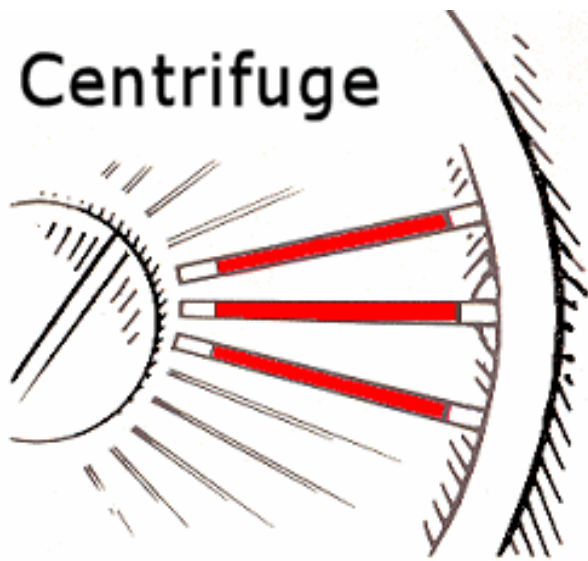
is the packed cell volume of whole blood that is occupied by red blood cells . The PCV is directly related to RBC count and Hb content . The PCV is varies among domestic animals . The PCV is significant far diagnosis of some diseases like : In polycythemia → PCV = 70 % . In anemia → PCV = 15 % .

<b>Species</b>	<b>Sheep</b>	<b>Cow</b>	<b>Horse</b>	<b>Dog</b>	<b>Cat</b>	<b>Chicken</b>	<b>Human</b>
<b>PCV (%)</b>	<b>32</b>	<b>40</b>	<b>42</b>	<b>45</b>	<b>37.3</b>	<b>30.6</b>	<b>45-50</b>

## **Procedures**

The PCV is usually measured in a special microhematocrit capillary tube or wintrobes Heamatocrit tube .

1. Touch the red –circle end of capillary (heparinized capillary tube) to the blood sample container .
2. Hold the tube in a horizontal position to allow the blood to enter the tube until  $\frac{3}{4}$  full . Seal end of the tube with sealing compound .
3. Place the capillary tube in microhematocrit centrifuge with the plug end to the outside .
4. Centrifuge for 5 minutes .



(a) Appearance of centrifuged blood

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