



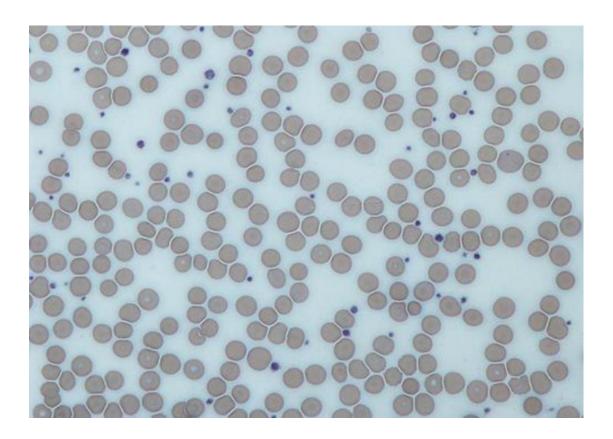
## **Platelets counting**

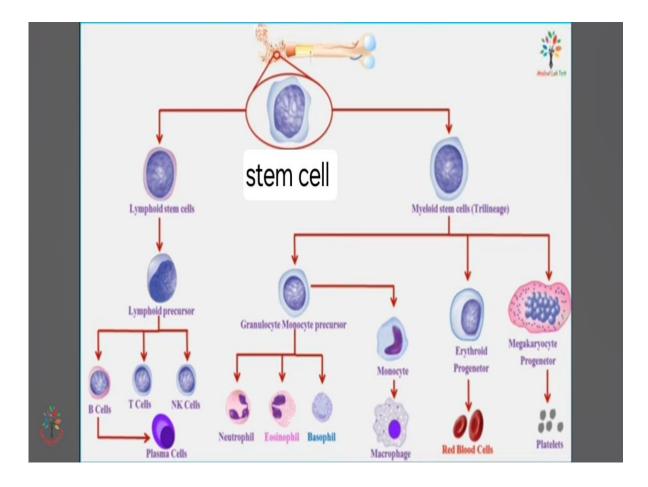
Physiology Lab-13

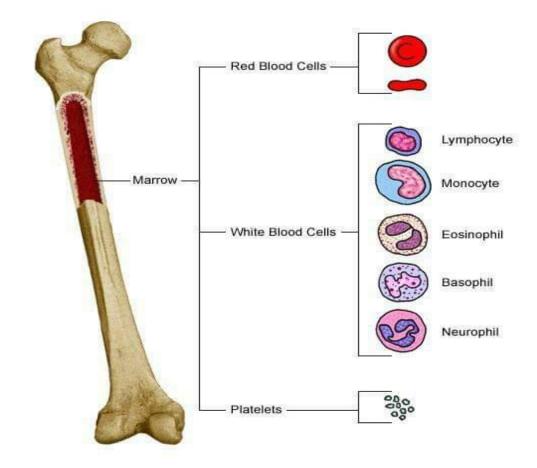
By: Assist -lec: Rabia khalid

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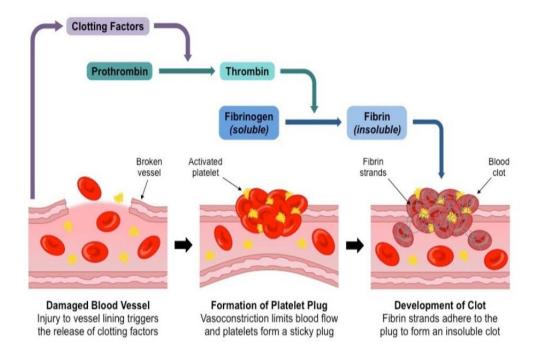
Platelets or thrombocytes are a component of blood whose function (along with the coagulation factors) is to react to bleeding from blood vessel injury byclumping, thereby initiating a blood clot. Platelets haveno cell nucleus; they are fragments of cytoplasm derived afrom the megakaryocytes of the bone marrow orlung, which then enter the circulation. Plateletsfound only in mammals, whereas in other vertebrates (e.g. birds, amphibians), thrombocytes.circulate as intact mononuclear cells. the platelet shape canbe considered similar to oblate spheroids







## Process of Blood Clotting or Coagulation



Process of Blood Clotting or Coagulation

СВС			M
WBC RBC HGB	5.88 4.45 136 0.396	[10^9/L] [10^12/ [g/L] [L/L]	
HCT MCV MCH	89.0 30.6	[fL] [p	
MCHC RDW-CV PLT	343		
MPV	/	[10^9/L]	
	oiffere	ential	
NEUT LYMPH MONO EO BASO IG NRBC	3.47 1.96 0.31 0.11 0.02 0.01 0.0	[10^9/L] [10^9/L] [10^9/L] [10^9/L] [10^9/L] [10^9/L] [/100WBC]	

CBC	increases	decreases
components		
WBC	Inflammation and	Vitamin B12
	infection.Leukemia	deficiency.
		Immunodeficiency
Red blood	Polycythemia.	
cell (RBC)	Cardiac failure	Hemorrhage .lron
	Smoking	Deficiency
	11	Anemia.
Hemoglobin (HB)	//	//
Hematocrit	Dehydration	Dilution
(HCT)		
Mean	Macrocyti <mark>anemia</mark>	Microcytic anemia
corpuscular		
hemoglobin		
(MCH)		
Mean	//	//
corpuscular		
hemoglobin		
concentration		
(MCHC)		
Mean	Macrocyti anemia:	Microcytic
spherical	Malignant anemia	anemia:Iron
volume (MCV)		Deficiency
		Anemia, Thalassemia
		malassennia
Platelets(PLT)	Hemolytic anemia	Autoimmune
	Splenectomy	disorders

