Polycythemia vera	Primary Myelofibrosis	Essential Thrombocytopenia	
Erythrocytosis + splenomegaly	"teardrop" red cells in the PBS	Bleeding and/or thrombosis	
Congenital heart disease, chronic pulmonary	Anemia and splenomegaly		
disease, smoking must be ruled out			
Major Hemoglobin	Minor Hemoglobin	Fetal hemoglobin	
(HbA1)	(HbA2)	(HbF)	
2 alpha + 2 beta globin units	2 alpha + 2 delta globin units	2 alpha + 2 gamma globin units	
(A + B)	(A+D) C	(A + C)	
Main Hgb variant present in young children and	106316.	High concentration in infants	
adults	Motes	< 6 mos old	
_	Nov	Normally present in trace to negligible amount in	
i and from	(HbA2) 2 alpha + 2 delta globin units (A+D)  10 10 10 10 10 10 10 10 10 10 10 10 10	adult blood sample	
- Wilew sol	16 2		

Hereditary Spire ic cy rosis	G6 Ce cyme deficiency hemolytic anemia	Thalassemia	Sickle Cell Anemia
(+) Osmotic fragility test	Normocytic, normochromic	Hypochromic, microcytic	
Splenectomy curative	Medication intake triggers episodic	Deficient cell membrane-associated	Due to single DNA base mutation in
	hemolytic anemia	spectrin in many cases	the 6 <sup>th</sup> beta globin gene triplet code
			Frequently associated with venous
			stasis and leg ulcers

Osmotic Fragility Test	Hemoglobin Electrophoresis	Ham's Test	Coomb's Test	Red Cell Metabolic Enzyme
				Assay
Hereditary spherocytosis	Thalassemias	Paroxysmal Nocturnal	Autoimmune Hemolytic	G6PD deficiency hemolytic
		Hemoglobin	Anemia	anemia
Packed Red Cell	Frozen Plasma	Cryoprecipitate	Fresh Whole Blood	Platelet Concentrate
For symptomatic chronic	Used to control bleeding in a	Controls bleeding in a known	Neonatal exchange	Controls bleeding in any
anemia without associated	chronic liver cirrhotic patient	hemophilia A patient	transfusion	thrombocytopenic condition
hemorrhage				