## Von Willebrand disease:

الموضوع الرئيسىي 1	most common inherited bleeding disorder increase in aPTT normal platelet count secondary decrease in factor VIII levels genetic mutations result in inherited deficiency — Gene is located on chromosome 12				
الموضوع الرئيسي 2	Genatic				
		Туре-1	Туре-3	Туре-2	
		autosomal dominant	autosomal recessive	autosomal dominant	
			due to deletions or frameshift mutations	due to missense mutations	
		level of vWF in the blood range from 20%-50% of norma	with total deficiency	resulting in nonfunctional vWF levels	
		accounts for 70% of all cases	for 5-10% of the cases	Accounts for 20% of all cases.	
		reduced quantity of circulating vWF	reduced quantity of circulating vWF	associated with qualitative defects in vWF	
	Acquired vWD		]		
			]		
	This type of vWD in adults		]		
	results after a diagnosis of an autoimmune disease, such as SLE, or from heart disease or some types of cancer				
	Also, it can also occur after taking certain medications.		]		

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## Classic Hemophilia

	normal platelet count				
	Normal bleeding time				
	prolonged aPTT				
	treated by - blood transfusion of concentrated plasma fraction containing factor VIII - Possibility of patients making auto-antibodies b- Possibility of patients making auto-antibodies b- Possibility of patients making auto-antibodies - Possibility of patients making auto-antibodies - Possibility of patients with none of those dangers.				
Hemophilia A	most common blood clotting defect-permanent tendency for hemorrhage due to missing factor VIII of the intrinsic pathway or marked reduction of its activity X-linked recessive disorder The blood level of factor VIII in severe hemophilia A patient is less than 5% of normal. an inversion mutation in intron 1 (5%) or 22 (45%) due to Missense mutations may affect factor production Missense mutations may affect factor production ,				
Hemophilia B	factor IX deficiency X-linked recessive disorder due — Most cases associated with point mutations due — Deletions in about 3% of cases Promoter mutations in about 2%				
Hemophilia C	factor XI deficiency autosomal recessive disorder				
Parahemophilia	deficiency of factor V autosomal recessive disorder				

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Thrombosis				
Four primary influences that contribute to the pathogenesis:	a- Endothelial injury (dominant) b- Abnormal blood flow c- Hypercoagulability (less) d- Alteration of the coagulation pathways			
3 الموضوع الرئيسي	young adults or teenagers develop venous thrombosis heterozygous for the deficiency with levels of functional protein C of 40 - 65%.			
2 الموضوع الرئيسي	protein C pathway mutation			



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