## Cheatography

# (UNFINISHED) Hemostasis and Coagulation Cheat Sheet by ravenchan via cheatography.com/181990/cs/42649/

BLOOD VESSE	L	PLATELET FUNCTIONS
CONNECTIVE	Fibroblasts	1. ADHESION:
TISSUE:		Adhered Platelets: single-layer of platelets
	Smooth Muscle Cells	
	These cells secrete COLLAGEN - a negatively charged substance; platelet agonist	Collagen-stimulated adhesion
BASEMENT MEMBRANE:	Collagen-rich (from CT)	Platelet > GP lb/IX > vWF > Collagen
	Serves as support of endothelial lining	(Platelets have a GP lb/IX binding site on their membrane that
ENDOTH- Secrete: ELIAL LINING:	Secretes Heparan Sulfate	von Willebrand Factor attaches to, to form a bridge between platelets and collagen — found on the subendothelium)
Littino.	- an natural anticoagulant to keep blood flowing	2. SECRETION:
	without turbulence in intact subendothelium	Adhered platelets secrete DENSE GRANULES
	- heparan sulfate is inactivated by <b>B-thromboglo-</b> bulin and Platelet Factor 4 for hemostasis to proceed	ADP (from dense granules) recruit & activate surrounding inert platelets
	- Zeta potential is also responsible for keeping platelets from touching the subendothelium	(Adhered platelets are REactivated by <b>thromboxane A2</b> to secrete granules thru OCS)
Zeta Potential:	Platelets: Phospholipids (phosphotidylethanola- mine)	3. AGGREGATION:
	Endothelial Lining: Collagen (from CT)	ADP-stimulated Platelets expose GP IIb/IIIa
- A platelet is a negatively charged cell (from phospholipids) that can be activated by negatively-charged substances called <b>PLATELET</b> <b>AGONISTS</b>		Fibrinogen attaches to GP IIb/IIIa
Acomoro		Primary Platelet Plug is formed (loose clot)
		(Fibrinogen bridges the GP IIb/IIIa binding sites of each platelet to create <b>long spiny projections</b> that indicate activation, and lead to aggregation)
		<ul> <li>Platelet functions always have to be enumerated in order</li> <li>The 3 functions comprise the events of PRIMARY HEMOSTASIS,</li> <li>meaning its output is a primary platelet plug</li> </ul>

### By ravenchan

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PLATELET AGONISTS			
ARACHI- DONIC ACID	- strongest platelet agonist		
	without this, secretion cannot happen = no ADP-st- imulated platelets, and no primary platelet plug formation		
THROMB- OXANE A2	- stimulates secretion		
	it reactivates the adhered platelets to secrete granules		
Adenosine Diphos- Phate	- stimulates aggregation		
	from dense granules; causes the aggregation of platelets to form a primary platelet plug = ADP-st- imulated Platelets		
THROMBIN (agonist & Factor IIa)	- most important protease enzyme		
COLLAGEN	- electronegativity in connective tissue		
	*source of negative charge in connective tissue -> epithelial lining		
EDINEDUEDINE			

#### **EPINEPHERINE**



#### This pathway shows what happens upon injury to blood vessel



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