## Cheatography

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

FibroblastsSmooth Muscle CellsThese cells secrete COLLAGEN - a negatively charged substance; platelet agonistCollagen-rich (from CT)Serves as support of endothelial liningSecretes Heparan Sulfate	1. ADHESION:         Adhered Platelets: single-layer of platelets         Collagen-stimulated adhesion         Platelet > GP lb/IX > vWF > Collagen         (Platelets have a GP lb/IX binding site on their membrane that von Willebrand Factor attaches to, to form a bridge between
These cells secrete COLLAGEN - a negatively charged substance; platelet agonistCollagen-rich (from CT)Serves as support of endothelial lining	Collagen-stimulated adhesion Platelet > GP lb/IX > vWF > Collagen (Platelets have a GP lb/IX binding site on their membrane that
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<i>charged substance; platelet agonist</i> Collagen-rich <i>(from CT)</i> Serves as support of endothelial lining	Platelet > GP lb/IX > vWF > Collagen (Platelets have a GP lb/IX binding site on their membrane that
Serves as support of endothelial lining	(Platelets have a GP lb/IX binding site on their membrane that
Secretes Heparan Sulfate	
	platelets and collagen — found on the subendothelium)
	2. SECRETION:
<ul> <li>an natural anticoagulant to keep blood flowing without turbulence in intact subendothelium</li> </ul>	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 secret granules thru OCS)
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> AGONISTS	Fibrinogen attaches to GP IIb/IIIa
	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 meaning its output is a primary platelet plug</li> </ul>
	<ul> <li>heparan sulfate is inactivated by B-thromboglo- bulin and Platelet Factor 4 for hemostasis to proceed</li> <li>Zeta potential is also responsible for keeping platelets from touching the subendothelium</li> <li>Platelets: Phospholipids (phosphotidylethanola- mine)</li> <li>Endothelial Lining: Collagen (from CT)</li> <li>egatively charged cell (from phospholipids) that can</li> </ul>

### By ravenchan

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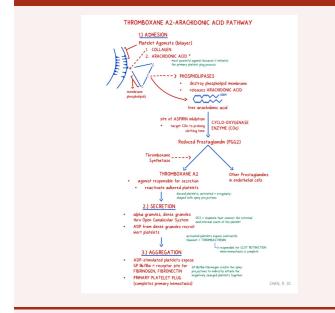
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## Cheatography

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 = <b>ADP-st-</b> imulated Platelets
THROMBIN (agonist & Factor IIa)	- most important protease enzyme
COLLAGEN	- electronegativity in connective tissue
	*source of negative charge in connective tissue -> epithelial lining
	_

**EPINEPHERINE** 

#### THROMBOXANE A2 AND ARACHIDONIC ACID PATHWAY



This pathway shows what happens upon injury to blood vessel



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