Hemostasis

1. Definition:
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of responses that stops bleeding when blood vessels are injured
3. a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. sometimes referred to as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*[****co***= together ***agul*** = gluing ***ation*** = process]

1. Mechanisms of Hemostasis
2. **Vascular Spasm**
3. damage causes the smooth muscle in the vessel wall to contract 🡪\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ blood flow
5. persists from minutes to hours
6. platelet attraction enhances this!
7. **Platelet Plug Formation**

a. platelets stick to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forming a mass or plug

*b. Aka*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inhibits aggregation at other sites

d. occurs mostly in arteries

1. **Coagulation**
2. *Aka*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. a complex process of stopping blood flow
4. series of chemical reactions that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. prevents \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. **General Events**
3. \_\_\_\_\_\_\_\_ : phospholipid that coats surface of platelets and interacts w/ TF, vitamin K, Ca++, and others
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ produced by platelet cells and damaged tissue
5. Factor X activated
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (enzyme) produced
7. Prothrombin\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (another enzyme)
8. Thrombin *stimulates*  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mesh
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Pathways
11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Clotting Pathway
12. rapid, within seconds
13. tissue \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ released resulting in formation of

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Clotting Pathway
2. more complex
3. factors activate each other
4. Blood Clot
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of thread-like protein fibers; traps blood cells platelets and fluid
6. Clot : \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of insoluble protein fibers = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Serum
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ w/ no fibrinogen or clotting factors
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ liquid
8. Help stop blood flow, reduce infection and enhance healing
9. Blood Clot Control
10. Formation occurs locally due to circulating anti-coagulants \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 attached
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 traveling
3. Blood Clot Retraction
4. consolidation or tightening of fibrin clot
5. pulls edges of the damaged vessel closer

together, decreasing further damage

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ form connective tissue;

new endothelial cells repair the vessel lining

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, an inactive plasma enzyme, is incorporated into the clot
2. body and blood tissues contains substances that can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_which helps dissolve the clot by digesting fibrin threads

1. Clot Eradication
2. Healing over 2-10 days
3. Tissue plasminogen activator (TPA) causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of plasminogen
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_proteins w/i clot
6. Bleeding Disorders
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

