Week 7 Pathology MCQs HETI

1. Regarding tissue factor / tissue thromboplastin:

Select one:

a. Its production by endothelial cells can be induced by bacterial exotoxin

b. Its production by endothelial cells can be induced by IL-1 and TNF

c. All of the above are true Correct. Robbins 8th Edition pg 117

* d. It acts in conjunction with factor VII

2. Prothrombotic characteristics of endothelium include:

Select one:

a. Interactions with Von Willebrand factor Correct. Robbins 8th Edition pg 116

b. Prostacyclin

c. Thrombomodulin

d. Plasminogen activator

3. Vitamin K is required for the activation of:

Select one:

a. Protein C Correct. Robbins 8th Edition pg 120 "vit K dependant protein"

b. Von Willebrands factor

c. Hageman factor

d. Pre-kallikrein

4. The activation of protein C:

Select one:

a. Is not affected by warfarin administration

b. Is inhibited by endothelial cells

c. Increases the activity of anti thrombin III

d. May cause intrinsic coagulation pathway inhibition Correct. Robbins 8th Edition pg 117 figure 4-6

5. Which is INCORRECT about disseminated intravascular coagulation?

Select one:

a. In involves fibrinolysis

b. It involves the development of numerous microthrombi

c. It is often a primary disorder Correct. Robbins 8th Edition pg 125

d. It involves consumption of platelets and clotting factors

6. Thrombus formation is inhibited by:

Select one:

a. IL-1

b. TNF

c. Heparin-like molecules Correct. Robbins 8th Edition pg 117 figure 4-6

d. Von Willebrands factor

7. Which is the most important natural constraint to coagulation?

Select one:

a. Protein C

b. Endogenous heparin

c. Anti thrombin III Correct. Robbins 8th Edition pg 120

d. Protein S

8. Concerning thrombi:

Select one:

a. Increased levels of protein C and S are risk factors for thrombi

b. Femoral artery thrombi are rarely occlusive

c. “Lines of Zahn” are more prominent in venous than arterial thrombi

d. Arterial thrombi propagate in a retrograde direction Correct. Robbins 8th Edition pg 125 "arterial thrombi can embolise and cause downstream infarctions"

9. Which of the following is contained in the cytoplasmic granules of platelets?

Select one:

a. Von Willebrand factor

b. Thrombin

c. ADP Correct. Robbins 8th Edition pg 117

d. P selectin

10. With regard to embolism:

Select one:

a. Pulmonary emboli are rarely multiple

b. Amniotic fluid emboli are associated with the greatest percentage of deaths Correct. Robbins 8th Edition pg 127 "mortality rate up to 80%"

c. Arterial emboli most often lodge in the viscera

d. All emboli consist of either a gas or solid intravascular mass