

PathMD™: Board Review Letter

Author: Philip Ferguson, M.D.

Coagulation - Part 1

Volume 1, Number 34

Case #1 The image for this question shown on the website represents initial platelet adhesion to the vessel wall and aggregation. What structure is represented by the red box in the image?

- A. GPIb receptor
- B. GPIIb/IIIa receptor
- C. Fibrinogen
- D. Collagen
- E. Von Willebrands factor

Case #2 The image for this question shown on the website represents initial platelet adhesion to the vessel wall and aggregation. What structure is represented by the red box in the image?

- A. GPIb receptor
- B. GPIIb/IIIa receptor
- C. Fibrinogen
- D. Collagen
- E. Von Willebrands factor

Questions

1. Moderate hemophilia A is characterized by which of the following approximated factor VIII levels:
 - A. 10-20%
 - B. 5-10%
 - C. 1-5%
 - D. <1%
 - E. >20%
2. Adhesion of platelets is mediated through all of the following EXCEPT:
 - A. GPIIb/IIIa
 - B. GPIb
 - C. Collagen
 - D. von Willebrand's factor
3. The PFA-100 analyzer has replaced the bleeding time at many institutions. This test utilizes two tubes for analysis. One tube contains collagen and ADP, while the other tube has collagen epinephrine. In a patient who has a prolonged bleeding time, which of the following would have a normal clotting time in the collagen and ADP tube but be prolonged and the collagen epinephrine tube?
 - A. Von Willebrand's disease
 - B. Thrombocytopenia
 - C. Bernard-Soulier disease
 - D. Aspirin effect
 - E. All the above will affect both tubes

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4. Which of the following would be least helpful in treating a patient with hemophilia A:
 - A. DDAVP
 - B. Recombinant factor VIII
 - C. FFP
 - D. Cryoprecipitate
 - E. All of the above would be helpful

5. A patient underwent cardiac bypass surgery and was having an uneventful post-operative course. On POD #7, the patient developed an ischemic leg. The intern asks your help in diagnosis, and also informs you that his platelet count has recently dropped. The most likely etiology is:
 - A. DVT with paradoxical embolus
 - B. Heparin induced thrombocytopenia
 - C. Thrombotic thrombocytopenia
 - D. Idiopathic Thrombocytopenia purpura
 - E. Hyperhomocystinemia

6. Which of the following tests would be most helpful in diagnosing the patient described in question 5?
 - A. Quantitative d-dimer
 - B. Qualitative d-dimer
 - C. Heparin antibody
 - D. ADAM-TS level
 - E. Methyltetrahydrofolate reductase mutation

7. A patient who is known to have von Willebrand's disease (vWD) has a normal vWF antigen and decreased levels of Factor VIII. What is the most likely vWD subtype in this patient?
 - A. Platelet type, pseudo-von Willebrand's disease
 - B. vWD, type 2A
 - C. vWD, type 2B
 - D. vWD, type 2M
 - E. vWD, type 2N

8. A patient is suspected of having Bernard-Soulier disease. If the patient has this disease, they would show response to all of the following during platelet testing EXCEPT:
 - A. ADP
 - B. Epinephrine
 - C. Collagen
 - D. Ristocetin
 - E. Thromboxane A2

Notes for question set:¹

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