

MODERN BLOOD BANKING & TRANSFUSION PRACTICES: HARMENING

CHAPTER 1

1. What is the maximum volume of blood that can be collected from a 110-lb donor, including samples for processing?

- a. 450 mL
- b. 500 mL
- c. 525 mL
- d. 550 mL

ANSWER: C

2. How often can a blood donor donate whole blood?

- a. Every 24 hours
- b. Once a month
- c. Every 8 weeks
- d. Twice a year

ANSWER: C

3. When RBCs are stored, there is a "shift to the left." This means:

- a. Hemoglobin oxygen affinity increases, owing to an increase in 2,3-DPG.
- b. Hemoglobin oxygen affinity increases, owing to a decrease in 2,3-DPG.
- c. Hemoglobin oxygen affinity decreases, owing to a decrease in 2,3-DPG.
- d. Hemoglobin oxygen affinity decreases, owing to an increase in 2,3-DPG.

ANSWER: B

4. The majority of platelets transfused in the United States today are:

- a. Whole blood–derived platelets prepared by the platelet-rich plasma method.
- b. Whole blood–derived platelets prepared by the bulky coat method.
- c. Apheresis platelets.
- d. Pre-storage pooled platelets.

ANSWER: C

5. Which of the following anticoagulant preservatives provides a storage time of 35 days at 1°C to 6°C for units of whole blood and prepared RBCs if an additive solution is not added?

- a. ACD-A
- b. CP-20
- c. CPD
- d. CPDA-1

ANSWER: D

6. What are the current storage time and storage temperature for platelet concentrates and apheresis platelet components?

- a. 5 days at 1°C to 6°C
- b. 5 days at 24°C to 27°C
- c. 5 days at 20°C to 24°C
- d. 7 days at 22°C to 24°C

ANSWER: C

7. What is the minimum number of platelets required in a platelet concentrate prepared from whole blood by centrifugation (90% of sampled units)?

- a. 5.5 $\times 10^{11}$
- b. 3 $\times 10^{10}$
- c. 3 $\times 10^{11}$
- d. 5.5 $\times 10^{10}$

ANSWER: D

8. RBCs can be frozen for:

- a. 12 months
- b. 1 year
- c. 5 years
- d. 10 years

ANSWER: D

9. What is the minimum number of platelets required in an apheresis component (90% of the sampled units)?

- a. 3 $\times 10^{11}$
- b. 4 $\times 10^{11}$
- c. 2 $\times 10^{11}$
- d. 3.5 $\times 10^{11}$

ANSWER: A

10. Whole blood and RBC units are stored at what temperature?

- a. 1°C to 6°C
- b. 20°C to 24°C
- c. 37°C
- d. 24°C to 27°C

ANSWER: A

11. Additive solutions are approved for storage of red blood cells for how many days?

- a. 21
- b. 42
- c. 35
- d. 7

ANSWER: B

12. One criterion used by the FDA for approval of new preservation solutions and storage containers is an average 24-hour post-transfusion RBC survival of more than:

- a. 50%
- b. 60%
- c. 65%
- d. 75%

ANSWER: D

13. What is the lowest allowable pH for a platelet component at outdate?

- a. 6
- b. 5.9
- c. 6.8
- d. 6.2

ANSWER: D

14. Frozen and thawed RBCs processed in an open system can be stored for how many days/hours?

- a. 3 days

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