# Document Information

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# Date Information

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# Control Information

**Author:** MC363  
**Owner:** MC363  
**Previous Number:** ABMT-COLL-002 FRM4  
**Change Number:** ABMT-CCR-176
ABMT-COLL-002 FRM4
Photopheresis Test

Directions: Write the correct answer to each question on the answer sheet. A score of 80% must be achieved. This checklist will be completed twice-yearly by an Apheresis Nursing Preceptor.

1. The correct formula for the liquid Methoxsalen (20 micrograms/mL) dose is:
   a. Treatment volume x 0.017
   b. Whole blood processed x 0.017
   c. Treatment volume x 0.17
   d. Return bag volume x 0.017

2. Patients should be instructed to eat a _________ diet the day before treatment to reduce risk of lipids interfering with Buffy Coat collection.
   a. Low fat diet
   b. High fat diet
   c. Vegetarian diet
   d. Junk food diet

3. Peak ECV occurs during:
   a. Collect/Drawing
   b. Collect/Buffy Coat
   c. Photo-activate/Returning
   d. Reinfuse

4. A Red Blood Cell Pump alarm may be caused by abnormal plasma conditions. This may be corrected by:
   a. Reducing the Collect Line flow rate
   b. Increasing the A/C ratio
   c. Adjusting the Bowl Optic Sensor Settings
   d. All the above

5. Why should you handle the Photo-activation Module only by its frosted edges?
   a. The Module is fragile and the frosted edges are reinforced
   b. Hold the frosted edges is the easiest way to insert the Module
   c. Oils from your hands may block UVA light
   d. All the above
6. What is the default setting for the total blood processed during a procedure?
   a. 500
   b. 1000
   c. 1500
   d. 2000

7. The default number of cycles for either SINGLE or DOUBLE needle mode is _______.
   a. 1
   b. 10
   c. 3
   d. 100

8. If a patient’s blood pressure rises during reinfusion, you may want to consider:
   a. Lowering the return line flow rate
   b. Raising the return line flow rate
   c. Administering an antihypertensive
   d. Pausing reinfusion for 60 minutes

9. During PRIME and PRIME ACCESS, the collect and return lines are already configured for SINGLE needle mode.
   True or False (T/F)

10. Patient access should be established prior to selecting SINGLE or DOUBLE needle mode.
    True or False (T/F)

11. How often should the 9-volt battery be replaced?
    a. Whenever the 9-volt battery Low alarm appears.
    b. Annually
    c. After every 10 treatments
    d. A and B

12. When should the Therakos Cellex Light Assembly be replaced?
    a. When the remaining lamp life is 0 hours
    b. When the remaining lamp life is 10 hours
    c. When the lamp door alarm appears
    d. B and C
13. Number the following steps in the order that they are typically done to correct an alarm while the machine is paused?
   _____ Press Reset
   _____ Press Mute
   _____ Press Start
   _____ Resolve the problem

14. Manual Return due to a treatment interruption requires:
   a. An external filter
   b. Physician approval
   c. Following instructions in Section 5 of the Operator's Manual
   d. All the above.

15. The advantage of continuous flow technology is:
   a. Shorter treatment times
   b. Enhanced patient comfort and convenience
   c. Increased operational efficiency and patient throughput
   d. More efficient scheduling and better resource utilization
   e. All the above

16. After Photo-activation begins, what is the only control button visible on the main screen?
   a. Pause
   b. Stop
   c. End buffy coat
   d. Abort

17. Facing the instrument, the Treatment Bag is hung on the left Load Cell hook below the pump deck.
   True or False (T/F)

18. When installing the Drive Tube, position the Tube so that:
   a. The red stripe faces the front of the assembly
   b. The notch is above the Drive Tube Latch
   c. The black stripe faces the rear of the assembly
   d. The reinforced area of the Tube extends out the Centrifuge Door

19. Which of the following are reasons to lower the Bowl Optic Setting?
   a. Abnormal clarity and color
   b. Anemia
   c. Abnormal red blood cell morphology
   d. Because you want too
20. The American Association of Blood Banks recommends maintaining a Fluid Balance at no more than 20% of the patient's Total Blood Volume.
   True or False (T/F)

21. Which of the following is a possible consequence of stopping and re-purging the centrifuge bowl during the procedure?
   a. The centrifuge bowl never has to be re-purged
   b. The Buffy Coat is partially lost
   c. The EVC is decreased
   d. The treatment would automatically be aborted

22. In Double Needle Mode, the patient's Collect flow rate begins to slow. If no other adjustments are made to the instrument, what is likely to happen?
   a. The patient's FLUID BALANCE will become more negative.
   b. The patient's FLUID BALANCE will become more positive.
   c. The patient's ECV will increase.
   d. The Return Line flow rate will decrease to compensate.

23. What is the proper response to maintain FLUID BALANCE in Double Needle Mode if the Return Line flow rate slows?
   a. Increase the Collect Line flow rate.
   b. Decrease the Collect Line flow rate.
   c. Increase the A/C ratio.
   d. Lower the Bowl Optic Sensor Setting by 10.

24. Which of the following alarms will require a full or partial manual return with physician approval?
   a. Blood Pump Error that cannot be resolved.
   b. Blood Leak (Centrifuge) due to Centrifuge Bowl or Drive Tube leak.
   c. System Pressure due to permanent kink in bowl outlet line.
   d. All of the above.

25. One function of the RELEASE KIT button is to:
   a. Retract all FLUID ROUTING VALVES so that the PUMP TUBING ORGANIZER may be removed.
   b. Save all the treatment data to the Smart Card and power down the system.
   c. Stop the Centrifuge Bowl from spinning.
   d. All the above.
26. In Double Needle Mode, unless there is a risk of losing access in the Return Line, the COLLECT access can first be disconnected at which phase and subphase?
   a. COLLECT: BUFFY COAT
   b. COLLECT: EMPTYING BOWL
   c. COLLECT: RETURNING
   d. PHOTOACTIVATE/RETURNING.

27. When treatment is complete, the total residual blood loss is approximately 22 mL (estimated volume in the Collect Line).
   True or False (T/F)

28. The power should be turned OFF and the instrument should be unplugged prior to changing the CELLEX Light Assembly so that the remaining lamp life counter is reset correctly.
   True or False (T/F)

**Calculation Questions**

1. Using the formula \( TBV = \text{weight (kg)} \times \text{Body Build Factor} \), the TBV of a 60 kg normal adult female is approximately:
   a. 3600 mL
   b. 4200 mL
   c. 4900 mL
   d. 5250 mL

2. Please calculate the following: (TBV, TV 10-15%, Double Needle/Single Needle ECV)
   a. 55 y/o male, 248 lbs., Muscular build, HCT 42%,
   b. 66 y/o female, 140 lbs., Normal build, HCT 28%
# ABMT-COLL-002 FRM4

## Photopheresis Test Answer Sheet

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**Directions:** Write the correct answer to each question on the answer sheet. A score of 80% must be achieved. This checklist will be completed twice-yearly by an Apheresis Nursing Preceptor.

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Signature Manifest

**Document Number:** ABMT-COLL-002 FRM4

**Title:** Photopheresis Test FRM4

All dates and times are in Eastern Time.

### ABMT-COLL-002 FRM4 Photopheresis Test FRM4

#### Author

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#### Management

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#### Medical Director

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#### Quality

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