

# Post- Test: Understanding Adult Hemodynamics

Name \_\_\_\_\_

(Please enter legal name above)

Birth date (required)

M	M	D	D	Y	Y	Y	Y

Format: 01/03/1999

Where do you work? (example: HCMC, MVAHCS, etc.) Enter N/A if you are not employed.

Hospital \_\_\_\_\_ Unit \_\_\_\_\_

\*Email Address \_\_\_\_\_

\*TCHP hospitals must use work email address.

I verify that I have read this home study and have completed the post-test and evaluation.

By checking this box, I am submitting my electronic signature to this statement.

1) Components that make up cardiac output are:

- a) Heart rate x preload
- b) Stroke volume x afterload
- c) Stroke volume x heart rate
- d) Heart rate x contractility

2) Cardiac index refers to:

- a) Cardiac output adjusted for body surface area
- b) Classification of system for MIs
- c) Cardiac vessel disease
- d) Both B & C

3) All of the following are main factors for stroke volume *except*:

- a) Contractility
- b) Heart rate
- c) Afterload
- d) Preload

4) Afterload is determined by

- a) Compliance of the aorta
- b) How thick or thin the blood is
- c) SVR
- d) Both A & B

e) All of the above

5) The RAP is:

- a) Decreased with volume loss
- b) Preload to the heart
- c) Normally between 2-6 mm Hg
- d) All of the above

6) Which of the following is used to increase preload?

- a) Giving volume
- b) Using vasodilators
- c) Using vasopressors

Match the medication to the action below:

- 7. \_\_\_\_ Low dose dopamine
- 8. \_\_\_\_ Epinephrine
- 9. \_\_\_\_ Medium-dose dopamine
- 10. \_\_\_\_ Nitroprusside
- 11. \_\_\_\_ Nitroglycerin
- 12. \_\_\_\_ Levophed®

- a) Reduces BP
- b) Increases urine output but does **not** prevent renal dysfunction or death.
- c) Venodilator
- d) Increases “squeeze”
- e) Vasoconstrictor
- f) Alpha, beta 1 & 2 stimulant

**Expiration date: The last day that post tests will be accepted for this edition is December 31, 2015**—your envelope must be postmarked on or before that day.

## Evaluation: Understanding Adult Hemodynamics

Please complete the evaluation form below by placing an "X" in the box that best fits your evaluation of this educational activity. Completion of this form is required to successfully complete the activity and be awarded contact hours.

At the end of this home study program, I am able to:	Strongly Agree, Agree, Neutral, Disagree, Strongly Disagree
1. Identify non-invasive indicators of hemodynamic status.	
2. List three indications for invasive hemodynamic monitoring.	
3. Describe the relationships among preload, contractility, compliance, afterload, and cardiac output.	
4. Describe pharmacologic strategies that manipulate heart rate, preload, contractility, and afterload to improve cardiac output.	
5. The teaching / learning resources were effective. <i>If not, please comment:</i>	

The following were disclosed in writing prior to, or at the start of, this educational activity (please refer to the first 2 pages of the booklet).	YES or NO
6. Notice of requirements for successful completion, including purpose and objectives	
7. Conflict of interest	
8. Disclosure of relevant financial relationships and mechanism to identify and resolve conflicts of interest	
9. Sponsorship or commercial support	
10. Non-endorsement of products	
11. Off-label use	
12. Expiration Date for Awarding Contact Hours	
13. Did you, as a participant, notice any bias in this educational activity that was not previously disclosed? <i>If yes, please describe the nature of the bias:</i>	

14. How long did it take you to read this home study and complete the post test and evaluation:  
 \_\_\_\_\_ hours and \_\_\_\_\_ minutes.

15. Did you feel that the number of contact hours offered for this educational activity was appropriate for the amount of time you spent on it?

\_\_\_ Yes

\_\_\_ No, more contact hours should have been offered

\_\_\_ No, fewer contact hours should have been offered.

Expiration date: December 31, 2015