

CS100 DVD POST-TEST

- 1 What is included in the “IntelliSync” algorithm software on the CS100?**
 - a. Auto timing
 - b. Auto trigger selection
 - c. CardioSync2 with R-Trac
 - d. All of the above

- 2 The balloon is positioned in the descending thoracic aorta with the tip positioned:**
 - a. Level with the phlebostatic axis
 - b. Between the 5 & 6 intercostal space
 - c. Just distal to the left subclavian artery
 - d. Within the aortic arch

- 3 Which is true about balloon inflation?**
 - a. It occurs at the peak of systole
 - b. It occurs at the onset of diastole and stays inflated throughout diastole
 - c. It occurs at the onset of systole and stays inflated throughout systole
 - d. It occurs at the dicrotic notch
 - e. B & D
 - f. A & B

- 4 The main benefit of inflation of the IAB:**
 - a. Decreased afterload
 - b. Increased blood flow to the coronary arteries
 - c. Increased ventricular emptying
 - d. Decreased workload of the heart

- 5 The benefit of deflation of the IAB:**
 - a. Improves ventricular emptying
 - b. Overall improvement in cardiac output
 - c. Workload of the left ventricle is reduced
 - d. Reduces myocardial oxygen demand
 - e. B & D
 - f. All of the above

- 6 All are true regarding Auto Operation Mode on the CS100 except:**
 - a. Automatically selects the best available trigger source
 - b. Initial timing must be set by the user
 - c. If the trigger source is lost, the CS100 will sequentially search for the next best available trigger source
 - d. Timing is continuously assessed and is reset if the heart rate or rhythm changes

- 7 Which is a feature of Semi-Auto Operation Mode?**
 - a. Operator is responsible for both selection of the trigger source and initial timing of the IAB
 - b. Automatic initial inflation and deflation timing and automatic ongoing adjustment of timing except with HR or rhythm changes
 - c. If the trigger source is lost, the CS100 will sequentially search for the next best available trigger source
 - d. Automatically selects the next best lead source if original lead is lost

- 8 Which is a feature of Manual Operation Mode?**
 - a. Automatic assessment and adjustment of timing except with irregular rhythms
 - b. Automatic selection of best trigger source if original trigger is lost
 - c. Operator is responsible for initial and ongoing inflation and deflation timing, trigger and lead selection
 - d. Automatically selects the next best lead source if original lead is lost

- 9 What does the CS100 automatically do when you press the “Start” button on initial set-up?**
 - a. Selects Auto Operation Mode
 - b. Initiates/starts assist
 - c. Selects the best available trigger source
 - d. Automatically selects IAB timing
 - e. Purges and fills the IAB (autofill)
 - f. All of the above

- 10 The CS100 is divided into 2 subsystems, the Electronic system and the Pneumatic system – True or False?**
 - a. True
 - b. False

- 11 While in Auto Operation Mode, you *cannot* adjust deflation timing – True or False?**
 - a. True
 - b. False

- 12 Where will alarm messages be displayed?**
 - a. Bottom right corner of display
 - b. Upper left corner of display
 - c. On the control panel
 - d. Upper right corner of display

13 How often will the CS100 perform an “Autofill”?

- a. Every hour
- b. Every 2 hours
- c. Every 6 hours
- d. Every 4 hours

14 How is condensation removed from the helium extender tubing?

- a. The operator must detach and twirl the tubing to remove condensation
- b. There is a small collection bottle which collects the moisture and must be periodically emptied
- c. It is automatically removed via the condensate removal system
- d. None of the above

15 Which ECG leads are available in Auto Operation Mode?

- a. I, III, V
- b. I, II, III and External
- c. II, III and aVF
- d. V, aVL, aVF

16 Which ECG leads are available in Semi-Auto Operation Mode?

- a. I, II, III and External
- b. V, aVL, aVF
- c. V, aVL, aVF and aVR
- d. All of the above

17 In general, Lead I provides the best R-wave for triggering and is the lead that is automatically selected when the pump is turned on – True or False?

- a. True
- b. False

18 There are “HELP” screens available for all alarms on the CS100 – True or False?

- a. True
- b. False

19 It is recommended that the Augmentation Alarm should be set approximately 10 mmHg below the patient’s current diastolic augmentation pressure – True or False?

- a. True
- b. False

20 While in Auto Operation Mode, if a “No Trigger” alarm sounds, corrective actions should include:

- a. Attempt to restore A.P. pulse height
- b. Reattach or reposition the electrodes
- c. Check the integrity of all cable and lead connections
- d. All of the above

21 All are appropriate actions if you receive any of these alarms: “Leak in IAB Circuit”, “Rapid Gas Loss” and “IAB Disconnected” except:

- a. Check the connections attached to the safety disk and condensate removal assembly
- b. Inspect the IAB and catheter extender tubing for loose connections
- c. Call the physician immediately and prepare for removal of the IAB
- d. Check carefully for blood in the tubing
- e. Press the IAB fill key for 2 seconds, then press “Start” key

22 All are appropriate actions to be taken if you receive the “Augmentation Below Limit Set” alarm except:

- a. If the augmentation alarm is set too high, readjust it to 8-10 mmHg lower than patient’s current diastolic augmentation
- b. Assess the patient’s hemodynamic status
- c. Call the physician immediately and prepare for removal of the IAB
- d. Check to see if the augmentation control is set too low and increase if appropriate

23 The “Low Battery” alarm will sound when there are less than _____ minutes of battery remaining?

- a. 10 min.
- b. 15 min.
- c. 30 min.
- d. 1 hour

24 The Doppler is powered by which method?

- a. Power cord attached to the pump
- b. Lithium batteries
- c. 2 – “AA” alkaline batteries
- d. 9V alkaline battery

25 The CS100 can be taken off the hospital cart for air/ambulance transport – True or False?

- a. True
- b. False



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