

## CS300 DVD POST-TEST

- 1 What is included in the “IntelliSense” algorithm software on the CS300?**
  - a. Auto inflate and deflate timing
  - b. Auto trigger and lead selection
  - c. User ability to fine-tune deflation
  - d. CardioSync2 with R-Trac
  - e. Automatic *in vivo* calibration when utilizing the Sensation fiber-optic catheter
  - f. All of the above
- 2 The CS300 will automatically calibrate the fiber-optic pressure sensor in the patient and recalibrate:**
  - a. Every two hours
  - b. If patient conditions change
  - c. If environmental conditions change
  - d. All of the above
- 3 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
- 4 Inflation of the IAB should occur:**
  - a. At the peak of systole
  - b. At the onset of diastole
  - c. At the onset of systole
  - d. At the dicrotic notch
  - e. B & D
  - f. None of the above
- 5 The main benefit of inflation of the IAB:**
  - a. Increased afterload
  - b. Coronary perfusion is increased by augmenting blood pressure during the diastolic phase of the cardiac cycle
  - c. Increased ventricular emptying
  - d. Decreased workload of the heart
- 6 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
- 7 When the fiber-optic catheter is being used, *in vivo* calibration will occur in which Operation Mode?**
  - a. Auto & Semi-Auto Operation Mode
  - b. Auto Operation Mode
  - c. Semi-Auto Operation Mode
  - d. Manual Operation Mode
  - e. All of the above
- 8 The CS300 will first prioritize the following trigger:**
  - a. Pressure
  - b. ECG
  - c. Internal
  - d. Pacer V-AV
- 9 Which is a feature of Semi-Auto Operation Mode?**
  - a. Operator is responsible for both selection of the trigger source and initial inflation and deflation timing of the IAB
  - b. Automatic initial inflation and deflation timing and automatic ongoing adjustment of timing except with HR and rhythm changes
  - c. If the trigger source is lost, the CS300 will not alarm and sequentially search for the next best available trigger source
  - d. Automatically select the next best lead source if original lead is lost
- 10 When Auto Operation Mode is selected, all aspects of CS300 operation are automated – True or False?**
  - a. True
  - b. False
- 11 Where will alarm and advisory 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
- 12 How often will the CS300 perform an “Autofill”?**
  - a. Every hour
  - b. Every 2 hours
  - c. Every 6 hours
  - d. Every 4 hours

- 13 How is condensation removed from the helium extender tubing?**
- The operator must detach and twirl the tubing to remove condensation
  - There is a small collection bottle which collects the moisture and must be periodically emptied
  - It is automatically removed via the condensate removal system
  - None of the above
- 14 Which ECG leads are available in Auto Operation Mode?**
- I, III, V
  - I, II, III and External
  - II, III and aVF
  - V, aVL, aVF
- 15 Which ECG leads are available in Semi-Auto Operation Mode?**
- I, II, III and External
  - V, aVL, aVF
  - V, aVL, aVF and aVR
  - All of the above
- 16 In general, which lead provides the best R-wave on the ECG for the IABP and will be automatically selected when the pump is turned on?**
- Lead III
  - Lead I
  - Lead II
  - V Lead
- 17 In all Operation Modes, the CS300 will prioritize which arterial pressure source as the direct pressure source when both a conventional pressure cable and a Sensation fiber-optic sensor cable are connected?**
- Which ever has a better signal quality
  - Conventional pressure source
  - A connected and functional Sensation fiber-optic pressure source
  - None of the above
- 18 While in Auto Operation Mode, you cannot adjust deflation timing – True or False?**
- True
  - False
- 19 There are "HELP" screens available for all alarms on the CS300 – True or False?**
- True
  - False
- 20 All are appropriate actions if you receive either of these alarms: "Leak in IAB Circuit" or "Rapid Gas Loss" except:**
- Examine the safety disk/condensate removal assembly connections
  - Inspect the IAB and catheter extender tubing for any evidence of a leak
  - Call the physician immediately and prepare for removal of the IAB
  - Check carefully for blood in the helium tubing
  - If instructed, press the IAB fill key for 2 seconds, then press "Start" key
- 21 It is recommended that the augmentation alarm be set to a range 8-10 mmHg below the patient's diastolic augmentation pressure – True or False?**
- True
  - False
- 22 The "Low Battery" alarm will sound when there are less than \_\_\_\_\_ minutes of battery remaining?**
- 10 min.
  - 15 min.
  - 30 min.
  - 1 hour
- 23 What actions should be taken if you receive the "Irregular Pressure Trigger" informational message?**
- Change out the pump
  - Adjust the IAB deflation control
  - Call the physician immediately
  - Consider changing to ECG trigger if the patient has an irregular rhythm
- 24 The Doppler is powered by which method?**
- Power cord attached to the pump
  - Lithium batteries
  - 2 – "AA" alkaline batteries
  - 9V alkaline battery
- 25 The CS300 can be taken off the hospital cart for air/ambulance transport – True or False?**
- True
  - False

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