

CVICU EXAM

Mrs. Jennings is a 71-year-old post-op CABG x5 with an IABP in her left femoral artery

- 1. Nursing standards for a patient on an IABP device include:
 - a. Know results of the PT, PTT, platelet count, etc.
 - b. Check for bleeding at the insertion site
 - c. Note color and temperature of extremity with balloon in place
 - d. Check pulses every hour and document
 - e. All of the above
- 2. Proper placement of an IAB in the aorta is:
 - a. In the pulmonary artery
 - b. Just distal to the subclavian artery
 - c. In the aortic arch
 - d. In the left ventricle
- 3. A male patient ejects 50 ml of blood from his ventricle with each heartbeat. His heart rate is 120. What is his cardiac output?
 - a. 3 L/min
 - b. 2.4 L/min
 - c. 6 L/min
 - d. 5 L/min
- 4. Symptoms of cardiac tamponade include:
 - a. Diminished atrial pressures
 - b. Paradoxical pulse
 - c. Intensified heart sounds
 - d. Increased cardiac output
- 5. In patients on intra-aortic balloon therapy you would expect their platelet count to be:
 - a. Affected for only 24 hours
 - b. Decreased
 - c. Elevated
 - d. Not affected
- 6. One of the primary therapeutic actions of sodium nitroprusside is to:
 - a. Decrease afterload
 - b. Increase systematic vascular resistance
 - c. Increase preload
 - d. Decrease pulmonary vascular resistance



Jennifer Payne, age 30, underwent mitral valve replacement twelve hours ago. She is still assisted by a ventilator. Her laboratory values are:

WBC 1000/cc pCo2 30mm/hg Hct 30.6 p02 100mm/hg

Na++ 138 meq/1

K+ 3.0 meg/1 pH 7.30

- 7. Jennifer's cardiac arrhythmia continues for several days after surgery. The physician orders digoxin 0.25 mg QD. The major pharmacological action of digitalis for this condition is:
 - a. Increase contractility of the left ventricle
 - b. Decrease myocardial excitability
 - c. Slow impulse conduction through the AV node
 - d. Increase automaticity of the heart muscle
- 8. One of the major complications as a result of being placed on a pump oxygenator during surgery is:
 - a. Heart block
 - b. Hypernatremia
 - c. Polycythemia
 - d. Air embolism
- 9. Which of the following orders would be carried out, based on Jennifer's laboratory values:
 - a. Maintain oxygen respiratory rate to retain carbon dioxide
 - b. Administer potassium chloride IV volutrol
 - c. Administer fluids IV to decrease Hct
 - d. Decrease respiratory rate to retain carbon dioxide
- 10. With valvular stenosis the valve leaflets:
 - a. Calcify and become immobile
 - b. Become edematous
 - c. Rupture
 - d. Atrophy and tear
- 11. The pre-operative factor that most affects fluid status is:
 - a. Coronary artery diseases
 - b. Congestive heart failure
 - c. Peripheral vascular disease
 - d. Chronic obstructive pulmonary disease



- 12. Aminophylline:
 - a. Forms crystals if solution ph falls below 8.0
 - b. Rapid administration can lead to ventricular fibrillation or cardiac arrest
 - c. Should be given by itself due to its alkalinity
 - d. All of the above
- 13. During the immediate post-operative period, physician evaluation is required for chest-tube drainage in excess of:
 - a. 50 cc/hour
 - b. 25 cc/hour
 - c. 150 cc/hour
 - d. 100 cc/hour
- 14. The doctor has ordered an aminophylline drip at 30 mg/hour. One (1) ampoule of aminophylline = 500 mg. If mixed in 250 cc D5W, what is your hourly rate of administration?
 - a. 22 cc/hour
 - b. 12 cc/hour
 - c. 5 cc/hour
 - d. 15 cc/hour
- 15. Conditions that may be treated by aminophylline are:
 - a. Asthma
 - b. COPD
 - c. Bronchospasm
 - d. All of the above
- 16. In a patient who has had cardiac surgery the primary goal of post-operative supplementation is augmentation of:
 - a. Afterload
 - b. Preload
 - c. Cardiac output
 - d. Stroke volume
- 17. You notice that the temporary pacemaker in your patient is occasionally failing to sense. You perform the following trouble shooting actions:
 - a. Increase the MA
 - b. Increase sensitivity
 - c. Decrease the MA
 - d. Increase pacemaker rate above patient's HR



- 18. A breakdown component of nipride is:
 - a. Lactic acid
 - b. CO2
 - c. Cyanide
 - d. None of the above
- 19. What is the indication for protamine?
 - a. To neutralize anti-coagulation activity of heparin
 - b. To potentiate the action of calcium chloride
 - c. To slow the heart rate
 - d. To potentiate the action of heparin
- 20. Isuprel is indicated in which of the following:
 - a. Bronchospasm
 - b. A V block
 - c. Treatment for hypertension
 - d. Treatment for tachycardia caused by digoxin toxicity
- 21. Dopamine infusing at 5.2 mcg/kg/min Dopamine 400 mg/250 cc D5W How many ccs 5.2 mcg/kg/min?
- 22. It is recommended that dextran 40% IV at 20 cc/hour be administered during IABP therapy to reduce platelet adherence to the balloon catheter.
 - a. False
 - b. True
- 23. The therapeutic blood level for digoxin is:
 - a. > 3.0 nanograms/ml
 - b. 2.5-4.0 nanograms/ml
 - c. 0.8-2.0 nanograms/ml
 - d. None of the above
- 24. Mannitol must always be given with filter size .45 microns?
 - a. False
 - b. True



	25.	The	administration	of calcium	n chloride is	appropria	te in the	following	situation
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- a. Ventricular fibrillation
- b. Asystole
- c. Tetany
- d. Ionized calcium less than 2.0
- e. All but D

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