

Prosthetic Valve Quiz:

- 1) Which one of the following valves is most likely to experience life-threatening obstruction due to clot?
 - A. Bjork Shiley
 - B. St. Jude
 - C. Carpentier Edwards
 - D. Homograft

- 2) A St. Jude Mitral Valve has a pressure half time of 90 msec so it is likely to have valve dysfunction?
 - A. True
 - B. False

- 3) A #19 St. Jude Aortic Valve has a peak gradient of 40 mm Hg and must be stenotic?
 - A. True
 - B. False

- 4) A TEE is more likely to correctly identify prosthetic aortic or mitral pathology.
 - A. Aortic
 - B. Mitral

- 5) Endocarditis can occur on which of these valves?
 - A. St. Jude
 - B. Carpentier Edwards
 - C. Homograft
 - D. All of above

- 6) Which is most accurate in identifying valve dysfunction in a patient with a prosthetic aortic valve and heart failure?
 - A. Peak gradient
 - B. Mean gradient
 - C. V1/V2 ratio: Dimensionless index
 - D. Calculated cardiac output by Doppler

- 7) Which valve has three leaflets?
- A. Medtronic Hall
 - B. Starr Edwards
 - C. Homograft
 - D. None of them
- 8) A peak gradient of 20 mm Hg indicates a mitral prosthetic valve is likely to have dysfunction?
- A. True
 - B. False
- 9) A St. Jude Valve has 4 jets of regurgitation around the rim of the valve extending 1 cm into the atrium that are red on color Doppler. The patient probably has no valve dysfunction.
- A. True
 - B. False
- 10) A baseline echo study to compare gradients when there is a question about valve dysfunction 2 years later is...
- A. Not helpful
 - B. Somewhat helpful
 - C. Very helpful
 - D. Always necessary to diagnose valve dysfunction
- 11) The EOA of a #23 mitral valve is $\pi \times (2.3\text{cm}/2)^2$ squared?
- A. True
 - B. False
- 12) A current generation aortic bioprosthetic valve has a 10% failure rate at:
- A. 5 years
 - B. 10 years
 - C. 15 years
 - D. 20 years