

Correct answers to the pre and post test can be found below (in red).

- 1) In which of the following cardiac conditions is infective endocarditis prophylaxis recommended:
 - a. 1 year after a Dacron patch closure of a ventricular septal defect
 - b. After transcatheter aortic valve implantation (TAVI)**
 - c. Following mitral valve repair for mitral regurgitation
 - d. Patients with pulmonary stenosis
 - e. Patients with severe mitral stenosis

- 2) Which of the following clinical scenarios is an indication for urgent surgery in infective endocarditis:
 - a. Aortic native valve endocarditis with a vegetation 5mm in diameter
 - b. Mitral native valve endocarditis with haematuria
 - c. Mitral prosthetic valve endocarditis with significant mitral regurgitation and heart failure symptoms**
 - d. Tricuspid valve endocarditis with asymptomatic severe tricuspid regurgitation
 - e. Uncomplicated aortic valve endocarditis with fever and positive blood cultures after 3 days of antibiotic treatment

- 3) Regarding the diagnostic workup of patients with suspected infective endocarditis, which of the following statements is correct:
 - a. Coronary angiography should be performed in all patients with infective endocarditis prior to cardiac surgery to detect coronary mycotic aneurisms
 - b. In a patient with a mitral prosthetic valve and a clinical suspicion of infective endocarditis a TOE is always advised**
 - c. In a patient with initially uncomplicated left side endocarditis, repetition of echocardiography is not advised
 - d. In patients with *Staphylococcus aureus* bacteriemia echocardiography is not recommended
 - e. Transesophageal echocardiography (TOE) is considered the first-line imaging modality in suspected endocarditis

- 4) Male, 70 years-old, with a biologic mitral valve prosthesis implanted 5 years ago. The patient has a confirmed diagnosis of infective endocarditis, with a 5 mm vegetation in the prosthetic valve. Which statement is correct?
 - a. Antibiotic therapy should be delayed until the results of blood cultures are available
 - b. Empirical antibiotic therapy should be started promptly with ampicillin, flucloxacilin and gentamicin**
 - c. If a methicillin-susceptible staphylococci is identified flucloxacilin during 4-6 weeks is enough
 - d. Repeat TOE should be performed after 24 hours of therapy
 - e. The total duration of antibiotic therapy should be 4 weeks in uncomplicated cases