Galway: GAPP - Galway Antimicrobial Prescribing Policy / Guidelines (GAPP): Cardiovascular

Bacterial Endocarditis

Bacterial Endocarditis

- 1. The following is intended primarily to provide initial short-term guidance on empiric therapy of seriously ill patients and those with prosthetic valves.
- 2. Immediate consultation on the next day with Microbiology or Infectious Diseases is recommended in all cases of suspected endocarditis.
- 3. In those with **sub-acute** presentation of suspected endocarditis, with a native valve and who are clinically stable at presentation it is often preferable to send blood cultures (as below) and to **withhold antibiotics pending consultation** and culture results.
- 4. In all but the most profoundly ill patients take 3 sets of blood cultures (10ml into each of two bottles for each set) **BEFORE** any antibiotics are given. If the patient is seriously ill the interval between cultures can be as short as 20 or 30 minutes.

nfection	11 st Line Antibiotics	Penicillin allergy: immediate or	Comment
		severe delayed reaction	
		•	
		See penicillin hypersensitivity section	
		for further information	
Bacterial Endocarditis	Native Valve or Prosthetic valve	Native Valve or Prosthetic valve	Once culture and sensitivity results
	Van annualis IV infusion, dans and	Vanada NV inferior dans and	are available direct antibiotic therapy accordingly in discussion with Microbiology or Infectious Diseases.
	Vancomycin IV infusion, dose per	Vancomycin IV infusion, dose per	
	GAPP App calculator. See footnote*	GAPP App calculator. See footnote*	
	re monitoring.	re monitoring.	
			Duration as advised by Microbiology
		†	or Infectious Diseases.
	Gentamicin IV 1mg/kg (maximum	Gentamicin IV 1mg/kg (maximum	
	80mg) every 12 hours. See footnote*	80mg) every 12 hours. See footnote*	
	re monitoring	re monitoring	
	CefTRIAXone IV 2g every 24 hours	Ciprofloxacin PO 500mg every 12	
		hours (IV 400mg every 12 hours if	
		NPO)	

Refs:

- Gould et al. BSAC Guidelines for the diagnosis and antibiotic treatment of endocarditis in adults. <u>Journal of Antimicrobial Chemotherapy</u> 2012;67:269-289
- 2. Baddour et al. AHA Infective Endocarditis: Diagnosis, Antimicrobial Therapy, and Management of Complications. Circulation 2015;132:1435-1486
- 3. Delgado et al. ESC Guidelines for the management of endocarditis: Developed by the task force on the management of endocarditis of the European Society of Cardiology (ESC) Endorsed by the European Association for Cardio-Thoracic Surgery (EACTS) and the European Association of Nuclear Medicine (EANM). European Heart Journal, 2023; 44: 3948–4042

Prophylaxis of Infective Endocarditis

Prophylaxis of Infective Endocarditis

- 1. The routine use of antibiotics in most situations is NOT justified on the balance of risk and benefit.
- 2. Consult with Microbiology or Infectious Diseases recommended if infection at procedure site.
- 3. Only patients identified with the following cardiac conditions undergoing one of the following high risk procedures should be considered for prophylaxis for infective endocarditis (IE):



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R	defs:
	Walter et al. Prevention of Viridans Group Streptococcal Infective Endocarditis. A Scientific Statement from the American Heart Association. Circulation. 2021;143:e963–e978
	Delgado et al. ESC Guidelines for the management of endocarditis: Developed by the task force on the management of endocarditis of the European Society of Cardiology (ESC) Endorsed by the European Association for Cardio-Thoracic Surgery (EACTS) and the European Association of Nuclear Medicine (EANM). European Heart Journal, 2023; 44: 3948–4042

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