

Cardio-vascular Infections



INFECTION	MOST LIKELY ORGANISMS	THERAPY CATEGORY	ANTIMICROBIALS	COMMENTS
ENDOCARDITIS: early prosthetic valve (1 year or less after surgery) OR associated with vascular cannulae	<i>Staph aureus</i> CoNS (coagulase-negative staphylococci) <i>Strep viridans</i> <i>Enterococcus</i>	First line	Gentamicin * 1-2 mg/kg/dose IV q8h AND Vancomycin** 15 mg/kg/dose IV q6h Only with prosthetic valve: MAY add Rifampin*** 20 mg/kg/DAY PO/IV DIVIDED q8h (max. 900 mg/DAY)	*Refer to Protocol for the Use and Therapeutic Drug Monitoring of Aminoglycosides at the Montreal Children's Hospital (MCH) ** Refer to the Guidelines for the prescription and the therapeutic drug monitoring of vancomycin at the Montreal Children's Hospital ***Rifampin IV is available only via Special Access Program of Health Canada
		Penicillin allergy	Same	
ENDOCARDITIS: native valve OR late prosthetic valve (more than 1 year after surgery)	<i>Strep viridans</i> <i>Staph aureus</i> <i>Enterococcus</i> HACEK (<i>Haemophilus</i> spp., <i>Aggregatibacter</i> spp., <i>Cardiobacterium hominis</i> , <i>Eikenella corrodens</i> , <i>Kingella</i> spp.) CoNS (if prosthetic valve)	First line	Ceftriaxone 80 mg/kg/dose IV q24h (max. 2 g/dose) AND Gentamicin * 1-2 mg/kg/dose IV q8h AND Vancomycin** 15 mg/kg/dose IV q6h If prosthetic valve, ADD: Rifampin*** 10 mg/kg/dose PO/IV q12h (max. 900 mg/DAY)	* Refer to Protocol for the Use and Therapeutic Drug Monitoring of Aminoglycosides at the Montreal Children's Hospital (MCH) ** Refer to the Guidelines for the prescription and the therapeutic drug monitoring of vancomycin at the Montreal Children's Hospital ***Rifampin IV is available only via Special Access Program of Health Canada
		Penicillin allergy	Same	

REFERENCES:

Empiric Antimicrobial Therapy Guide: Version 9, June 2025