Organism	Drug (Dose, Duration)	Comments
Streptococci		
Penicillin-susceptible ⁶ strepto-cocci, <i>S. gallolyticus</i>	 Penicillin G (2–3 mU IV q4h for 4 weeks) 	_
	Ceftriaxone (2 g/d IV as a single dose for 4 weeks)	Can use ceftriaxone in patients with nonimmediate penicillin allergy.
	Vancomycin ^c (15 mg/kg IV q12h for 4 weeks)	Use vancomycin in patients with severe or immediate $\beta\mbox{-lacta}$ allergy.
	 Penicillin G (2–3 mU IV q4h) or ceftriaxone (2 g IV qd) for 2 weeks 	Avoid 2-week regimen when risk of aminoglycoside toxicity is increased and in prosthetic valve or complicated endocarditis
	plus	· ·
	Gentamicin ^d (3 mg/kg qd IV or IM, as a single dose ^e or divided into equal doses q8h for 2 weeks)	
Relatively penicillin-resistant ^f	Penicillin G (4 mU IV q4h) or ceftriaxone (2 g IV qd) for 4 weeks	Penicillin alone at this dose for 6 weeks or with gentamicin during the initial 2 weeks is preferred for prosthetic valve endoca
	plus	caused by streptococci with penicillin MICs of ≤0.1 μg/mL.
	Gentamicin ^d (3 mg/kg qd IV or IM, as a single dose ^e or divided into equal doses q8h for 2 weeks)	
	Vancomycin ^c as noted above for 4 weeks	_
Moderately penicillin-resistant ⁹ streptococci, nutritionally variant organisms, or <i>Gemella</i> species	• Penicillin G (4–5 mU IV q4h) <i>or</i> ceftriaxone (2 g IV qd)	Preferred for prosthetic valve endocarditis caused by streptoc
	for 6 weeks	with penicillin MICs of >0.1 μg/mL.
	plus	
	Gentamicin ^d (3 mg/kg qd IV or IM as a single dose ^e or divided into equal doses q8h for 6 weeks)	
	• Vancomycin ^c as noted above for 4 weeks	Regimen is preferred by some.
Enterococci ^h		
	 Penicillin G (4–5 mU IV q4h) plus gentamicin^d (1 mg/kg IV q8h), both for 4–6 weeks 	Can use streptomycin (7.5 mg/kg q12h) in lieu of gentamicin there is not high-level resistance to streptomycin.
	 Ampicillin (2 g IV q4h) plus gentamicin^d (1 mg/kg IV q8h), both for 4–6 weeks 	_
	Vancomycin ^c (15 mg/kg IV q12h) <i>plus</i> gentamicin ^d (1 mg/kg IV q8h), both for 4–6 weeks	Use vancomycin plus gentamicin for penicillin-allergic patient (or desensitize to penicillin) and for isolates resistant to penici ampicillin.
	Ampicillin (2 g IV q4h) <i>plus</i> ceftriaxone (2 g IV q12h), both for 6 weeks	Use for <i>E. faecalis</i> isolates with high-level resistance to gentar and streptomycin or for patients at high risk for aminoglycosic nephrotoxicity (see text).
Staphylococci		
MSSA infecting native valves (no foreign devices)	Nafcillin, oxacillin, or flucloxacillin (2 g IV q4h for 4–6 weeks)	Can use penicillin (4 mU q4h) if isolate is penicillin-susceptible (does not produce β-lactamase).
	Cefazolin (2 g IV q8h for 4–6 weeks)	Can use cefazolin regimen for patients with nonimmediate pelin allergy.
	• Vancomycin ^c (15 mg/kg IV q12h for 4–6 weeks)	Use vancomycin for patients with immediate (urticarial) or sever penicillin allergy; see text regarding addition of gentamicin, function, or rifampin.
MRSA infecting native valves (no foreign devices)	• Vancomycin ^c (15 mg/kg IV q8–12h for 4–6 weeks)	No role for routine use of rifampin (see text). Consider alterna treatment (see text) for MRSA with vancomycin MIC >1.0 or p tent bacteremia during vancomycin therapy.
MSSA infecting prosthetic valves	Nafcillin, oxacillin, or flucloxacillin (2 g IV q4h for 6–8 weeks) plus	Use gentamicin during initial 2 weeks; determine susceptibilit gentamicin before initiating rifampin (see text); if patient is his allergic to penicillin, use regimen for MRSA; if β -lactam allergy of the minor nonimmediate type, cefazolin can be substituted
	Gentamicin ^d (1 mg/kg IM or IV q8h for 2 weeks) <i>plus</i>	oxacillin/nafcillin.
	• Rifampin ⁱ (300 mg PO q8h for 6–8 weeks)	
MRSA infecting prosthetic valves	Vancomycin ^c (15 mg/kg IV q12h for 6–8 weeks) Plus	Use gentamicin during initial 2 weeks; determine gentamicin ceptibility before initiating rifampin (see text).
	plus Gentamicin ^d (1 mg/kg IM or IV q8h for 2 weeks)	especially before illuding fluriphi (see text).
	plus	
	Rifampin ⁱ (300 mg PO q8h for 6–8 weeks)	
HACEK Organisms	Coffeigues (2 m/d IV/og a six-ddffd	Con use another third generality and the second
	Ceftriaxone (2 g/d IV as a single dose for 4 weeks)	Can use another third-generation cephalosporin at comparat dosage.