

Daniel Saul Brenner  
Catherine A. Marco  
Richard E. Rothman

## REFERENCES

- Murdoch DR, et al: Clinical presentation, etiology, and outcome of infective endocarditis in the 21st century. *Arch Intern Med* 169: 463, 2009. [PMID: 27303750]
- Sy RW, Kritharides L: Health care exposure and age in infective endocarditis: results of a contemporary population-based profile of 1536 patients in Australia. *Eur Heart J* 31: 1890, 2010. [PMID: 20453066]
- Selton-Suty C, Célard M, Le Moing V, et al: Preeminence of *Staphylococcus aureus* in infective endocarditis: a 1-year population-based survey. *Clin Infect Dis* 54: 1230, 2012. [PMID: 22492317]
- Jung B, Vahanian A: Epidemiology of valvular heart disease in the adult. *Nat Rev Cardiol* 8: 162, 2011. [PMID: 21263455]
- Hill EE, et al: Infective endocarditis: changing epidemiology and predictors of 6-month mortality: a prospective cohort study. *Eur Heart J* 28: 196, 2007. [PMID: 17158121]
- Durante-Mangoni E: Current features of infective endocarditis in elderly patients. *Arch Intern Med* 168: 2095, 2008. [PMID: 18955638]
- Tleyjeh IM, Abdel-Latif A, Rahbi H, et al: A systematic review of population-based studies of infective endocarditis. *Chest* 132: 1025, 2007. [PMID: 17873196]
- Elder RW, Baltimore RS: The changing epidemiology of pediatric endocarditis. *Infect Dis Clin North Am* 29: 513, 2015. [PMID: 26311357]
- Nunes MCP, Guimarães-Júnior MH, Murta Pinto PHO, et al: Outcomes of infective endocarditis in the current era: early predictors of a poor prognosis. *Int J Infect Dis* 68: 102, 2018. [PMID: 29382606]
- Hasbun R, Vikram HR, Barakat LA, Buenconsejo J, Quagliarello VJ: Complicated left-sided native valve endocarditis in adults: risk classification for mortality. *JAMA* 289: 1933, 2003. [PMID: 12697795]
- Wallen TJ, Szeto W, Williams M, et al: Tricuspid valve endocarditis in the era of the opioid epidemic. *J Card Surg* 33: 260, 2018. [PMID: 21546485]
- Martín-Dávila P, Navas E, Fortún J, et al: Analysis of mortality and risk factors associated with native valve endocarditis in drug users: the importance of vegetation size. *Am Heart J* 150: 1099, 2005. [PMID: 16291005]
- Almirante B, Almirante B, Tornos P, et al: Contemporary epidemiology and prognosis of health care-associated infective endocarditis. *Chinese J Infect Chemother* 9: 296, 2008. [PMID: 18834314]
- Benito N, Millot S, Chirouze C, et al: Health care-associated native valve endocarditis: importance of non-nosocomial acquisition. *Ann Intern Med* 150: 586, 2009. [PMID: 19414837]
- Duval X, Millot S, Chirouze C, et al: Oral streptococcal endocarditis, oral hygiene habits, and recent dental procedures: a case-control study. *Clin Infect Dis* 64: 1678, 2017. [PMID: 28369398]
- González-Del Vecchio M, Bunsow E, Sánchez-Carrillo C, et al: Occult bloodstream infections in adults: a 'benign' entity. *Am J Emerg Med* 32: 966, 2014. [PMID: 24997579]
- <http://www.ncbi.nlm.nih.gov/pubmed/28723008>. (Smith DA, Nehring SM: Bacteremia. *StatPearls*, 2018. Accessed November 14, 2018.
- Rijnders BJA, Wilmer A, Van Eldere J, Van Wijngaerden E: Frequency of transient streptococcal bacteremia following urgent orotracheal intubation in critically ill patients. *Intensive Care Med* 27: 434, 2001.
- Bhanji S, Williams MSDB, Sheller B, Elwood MSDT, Mancl L: Transient bacteremia induced by toothbrushing: a comparison of the Sonicare. *Pediatr Dent* 24: 295, 2002. [PMID: 12212870]
- Fowler VG, Miro JM, Hoen B, et al: *Staphylococcus aureus* endocarditis: a consequence of medical progress. *JAMA* 293: 3012, 2005. [PMID: 15972463]
- Miro JM, Anguera I, Cabell CH, et al: *Staphylococcus aureus* native valve infective endocarditis: report of 566 episodes from the International Collaboration on Endocarditis Merged Database. *Clin Infect Dis* 41: 507, 2005. [PMID: 16028160]
- Nakagawa T, Wada H, Sakakura K, et al: Clinical features of infective endocarditis: comparison between the 1990s and 2000s. *J Cardiol* 63: 145, 2014. [PMID: 23906529]
- Baddour LM, Wilson WR, Bayer AS, et al: Infective endocarditis in adults: diagnosis, antimicrobial therapy, and management of complications: a scientific statement for healthcare professionals from the American Heart Association. *Circulation* 132: 1435, 2015. [PMID: 26373316]
- Carrasco F, Anguita M, Ruiz M, et al: Clinical features and changes in epidemiology of infective endocarditis on pacemaker devices over a 27-year period (1987-2013). *Europace* 18: 836, 2016. [PMID: 26705558]
- Fournier P, Thuny F, Richet H, et al: Comprehensive diagnostic strategy for blood culture-negative endocarditis: a prospective study of 819 new cases. *Clin Infect Dis* 51: 131, 2010. [PMID: 20540619]
- Chaudhary G, Lee JD: Neurologic complications of infective endocarditis. *Curr Neurol Neurosci Rep* 13: 380, 2013. [PMID: 24022658]
- Vilacosta I, Graupner C, San Román JA, et al: Risk of embolization after institution of antibiotic therapy for infective endocarditis. *J Am Coll Cardiol* 39: 1489, 2002. [PMID: 11985912]
- Hoen B, Duval X: Infective endocarditis. *N Engl J Med* 368: 1425, 2013. [PMID: 23574121]
- Sethi K, Buckley J, de Wolff J: Splinter haemorrhages, Osler's nodes, Janeway lesions and Roth spots: the peripheral stigmata of endocarditis. *Br J Hosp Med (Lond)* 74: C139, 2013. [PMID: 24273777]
- Durack DT, Lukes AS, Bright DK, Duke Endocarditis Service: New criteria for diagnosis of infective endocarditis: utilization of specific echocardiographic findings. *Am J Med* 96: 200, 1994. [PMID: 8154507]
- Li JS, Sexton DJ, Mick N, et al: Proposed modifications to the Duke criteria for the diagnosis of infective endocarditis. *Clin Infect Dis* 30: 633, 2000. [PMID: 10770721]
- Chung-Esaki H, Rodriguez RM, Alter H, Cisse B: Validation of a prediction rule for endocarditis in febrile injection drug users. *Am J Emerg Med* 32: 412, 2014. [PMID: 24560394]
- Pazin GJ, Saul S, Thompson ME: Blood culture positivity: suppression by outpatient antibiotic therapy in patients with bacterial endocarditis. *Arch Intern Med* 142: 263, 1982. [PMID: 7059254]
- Carrasco F, Anguita M, Ruiz M, et al: Clinical features and changes in epidemiology of infective endocarditis on pacemaker devices over a 27-year period (1987-2013). *Europace* 18: 836, 2016. [PMID: 26705558]
- Habib G, Lancellotti P, Antunes MJ, et al: 2015 ESC guidelines for the management of infective endocarditis: the Task Force for the Management of Infective Endocarditis of the European Society of Cardiology (ESC). Endorsed by: European Association for Cardio-Thoracic Surgery (EACTS), the European. *Eur Heart J* 36: 3075, 2015. [PMID: 26320109]
- Lindner JR, Case RA, Dent JM, et al: Diagnostic value of echocardiography in suspected endocarditis: an evaluation based on the pretest probability of disease. *Circulation* 93: 730, 1996. [PMID: 8641002]
- Sila C: Anticoagulation should not be used in most patients with stroke with infective endocarditis. *Stroke* 42: 1797, 2011. [PMID: 21546485]
- Rasmussen RV: Anticoagulation in patients with stroke with infective endocarditis is safe. *Stroke* 42: 1795, 2011. [PMID: 21546478]
- Nishimura RA, Otto CM, Bonow RO, et al: 2017 AHA/ACC focused update of the 2014 AHA/ACC Guideline for the Management of Patients with Valvular Heart Disease: a report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. *Circulation* 135: e1159, 2017. [PMID: 28298458]
- Choice of antibacterial drugs. *Treat Guidel Med Lett* 5: 33, 2007. [PMID: 17450114]
- Wang A, Gaca JG, Chu VH: Management considerations in infective endocarditis: a review. *JAMA* 320: 72, 2018. [PMID: 29971402]
- Fowler VG, Boucher HW, Corey GR, et al: Daptomycin versus standard therapy for bacteremia and endocarditis caused by *Staphylococcus aureus*. *N Engl J Med* 355: 653, 2006. [PMID: 16914701]
- Cosgrove SE, Vigliani GA, Fowler VG Jr, et al: Initial low dose gentamicin for *Staphylococcus aureus* bacteremia and endocarditis is nephrotoxic. *Clin Infect Dis* 48: 713, 2009. [PMID: 19207079]
- Bedeir K, Reardon M, Ramlawi B: Infective endocarditis: perioperative management and surgical principles. *J Thorac Cardiovasc Surg* 147: 1133, 2014. [PMID: 24412256]
- Dunne B, Marr T, Kim D, et al: Infective endocarditis. *Heart Lung Circ* 23: 628, 2014. [PMID: 24717864]
- Wilson W, Taubert KA, Gewitz M, et al: Prevention of infective endocarditis: Guidelines from the American Heart Association. *Circulation* 116: 1736, 2007. [PMID: 17446442]
- Armstrong ML, DeBoer S, Cetta F: Infective endocarditis after body art: a review of the literature and concerns. *J Adolesc Heal* 43: 217, 2008. [PMID: 18710675]
- Stokes T, Richey R, Wrayon D: Prophylaxis against infective endocarditis: summary of NICE guidance. *Heart* 94: 930, 2008. [PMID: 18552226]
- Habib G, Hoen B, Tornos P, et al: Guidelines on the prevention, diagnosis, and treatment of infective endocarditis (new version 2009). *Eur Heart J* 30: 2369, 2009. [PMID: 19713420]
- Alagna L, Park LP, Nicholson BP, et al: Repeat endocarditis: analysis of risk factors based on the International collaboration on endocarditis: prospective cohort study. *Clin Microbiol Infect* 20: 566, 2014. [PMID: 24102907]