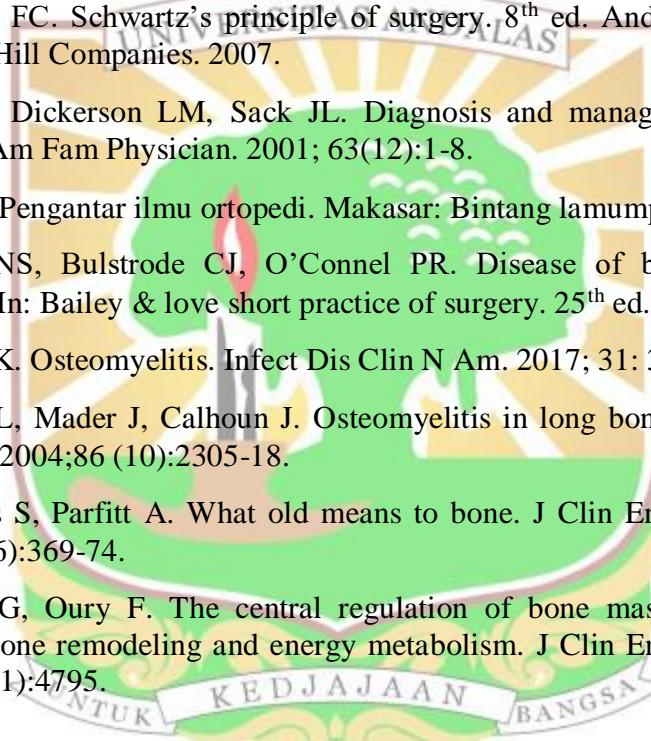


DAFTAR PUSTAKA

1. Chihara S, Segreti J. Osteomyelitis. Dis Mon. 2010;56(1):5-31.
2. Lew DP, Waldvogel FA. Osteomyelitis. Lancet. 2004;364(9431): 369-79.
3. Sia IG, Berbari EF. Infection and musculoskeletal conditions: osteomyelitis. Best Pract Res Clin Rheumatol. 2006; 20(6):1065-81.
4. Brady RA, Leid JG, Costerton JW, Shirtliff ME. Osteomyelitis: clinical overview and mechanisms of infection persistence. Clin Microbiol Newsl. 2006;28(9):65-72.
5. Kremers HM, Nwojo MAE, Ransom JE, Wood-Wentz CM, Joseph ML, Huddleston PM. Trends in the epidemiology of osteomyelitis a population-based study 1969 to 2009. J Bone Joint Surg. 2014; 97(10):837-45.
6. Mruk AL, Record KE. Antimicrobial options in the treatment of adult staphylococcal bone and joint infections in an era of drug shortages. Orthopedics. 2012;35(5):401-7.
7. Berdajs DA, Trampuz A, Ferrari E, Ruchat P, Hurni M, von Segesser LK. Delayed primary versus late secondary wound closure in the treatment of postsurgical sternum osteomyelitis. Interact Cardiovasc Thorac Surg. 2011;12(6):914-8.
8. Walter G, Kemmerer M, Kappler C, Hoffmann R. Treatment algorithms for chronic osteomyelitis. Dtsch Arztebl Int. 2012;109(14):257–64.
9. Walenkamp GH. Chronic osteomyelitis. Acta Orthop Scand. 1997; 68 (5): 497-506.
10. Khan AN (2017). Osteomyelitis chronic imaging. Medscape. <https://emedicine.medscape.com/article/393345-overview>- Diakses Desember 2018.
11. Klemm K. The use of antibiotic-containing bead chains in the treatment of chronic bone infections. Clin Microbiol Infect. 2001;7(1):28-31.
12. Göçer H, Emir D, Önger ME, Dabak N. Effects of bone cement loaded with teicoplanin, N-acetylcysteine or their combination on *Staphylococcus aureus* biofilm formation: an in vitro study. Eklem Hastalik Cerrahisi. 2017;28(1):13-8.
13. Qiu XS, Zheng X, Shi HF, Zhu YC, Guo X, Mao HJ, et al. Antibiotic-impregnated cement spacer as definitive management for osteomyelitis. BMC Musculoskelet Disord. 2015;16:254.
14. Chow LC, Eanes ED. Octacalcium phosphate. Monogr Oral Sci. 2001;18:148-63.
15. Vaishya R, Chauhan M, Vaish H. Bone cement. J Clin Orthop Trauma. 2013; 4: 157-63.

- 
16. Hanssen AD. Local antibiotic delivery vehicles in the treatment of musculoskeletal infection. *Clin Orthop Relat Res.* 2005;437:91–6.
 17. Gogia JS, Meehan JP, Cesare PE, Jamali AA. Local antibiotic therapy in osteomyelitis. *Semin Plast Surg.* 2009;23(2):100-7.
 18. Azi ML, Junior MK, Martinez R, Paccola CAJ. Bone cement and gentamicin in the treatment of bone infection: background and in vitro study. *Acta Ortop Bras.* 2010;18(1): 31-4.
 19. Jerzy K, Francis H. Chronic osteomyelitis- bacterial flora, antibiotic sensitivity and treatment challenges. *Open Orthop J.* 2018; 12: 153–63.
 20. King RW (2017). Osteomyelitis in emergency medicine. Medscape. <https://emedicine.medscape.com/article/785020-overview>–Diakses Desember 2018.
 21. Brunicardi FC. Schwartz's principle of surgery. 8th ed. Andersen D, author. McGraw-Hill Companies. 2007.
 22. Carek PJ, Dickerson LM, Sack JL. Diagnosis and management of osteomyelitis. *Am Fam Physician.* 2001; 63(12):1-8.
 23. Rasjad C. Pengantar ilmu ortopedi. Makasar: Bintang lamumpatue, 2003.
 24. William NS, Bulstrode CJ, O'Connel PR. Disease of bone and joints: infection. In: Bailey & love short practice of surgery. 25th ed. London: 2008.
 25. Schmitt SK. Osteomyelitis. *Infect Dis Clin N Am.* 2017; 31: 325–38.
 26. Lazzarini L, Mader J, Calhoun J. Osteomyelitis in long bones. *J Bone Joint Surg Am.* 2004;86 (10):2305-18.
 27. Manolagas S, Parfitt A. What old means to bone. *J Clin Endocrinol Metab.* 2010; 21(6):369-74.
 28. Karsenty G, Oury F. The central regulation of bone mass, the first link between bone remodeling and energy metabolism. *J Clin Endocrinol Metab.* 2010;95(11):4795.
 29. Tortora GJ, Derrickson B. Principles of anatomy & physiology. 13th ed. United States of America: John Wiley & Sons, Inc; 2012.
 30. Calhoun JH, Manring MM, Shirtliff M. Osteomyelitis of the long bones. *Semin Plast Surg.* 2009;23(2):59–72.
 31. Gomes D, Pereira M, Bettencourt AF. Osteomyelitis: an overview of antimicrobial therapy. *Braz J Pharm Sci.* 2013; 49: 13–27.
 32. Patti JM, Allen BL, McGavin MJ. MSCRAMM-mediated adherence of microorganisms to host tissues. *Annu Rev Microbiol.* 1994;48:585–617.
 33. Hudson MC, Ramp WK, Frankenburg KP. *Staphylococcus aureus* adhesion to bone matrix and bone-associated biomaterials. *FEMS Microbiol Lett.* 1999; 173(2):279–84.

34. Montanaro L, Testoni F, Poggi A, Visai L, Speziale P, Arciola CR. Emerging pathogenetic mechanisms of the implant-related osteomyelitis by staphylococcus aureus. *Int J Artif Organs.* 2011;34(9): 781-8.
35. Eid AJ, Berbari EF. Osteomyelitis: a review of pathophysiology, diagnostic modalities and therapeutic options. *J Med Liban.* 2012;60(1):51-60.
36. Gould IM, David MZ, Esposito S, Garau J, Lina G, Mazzei T, et al. New insights into meticillin-resistant staphylococcus aureus (MRSA) pathogenesis, treatment and resistance. *Int J Antimicrob Agents.* 2012;39(2): 96-104.
37. Solomon L. Apley's system of orthopaedics and fracture. 8th ed. New York: Oxford University Press; 2001.
38. Chew FS, Schulze ES, Mattia AR. Osteomyelitis. Radiologic-phatologic conferences of Massachusetts General Hospital. *AJR.* 1994;162:942.
39. Wagner C, Heppert V, Hänsch G. The immune defence against bacterial biofilms: consequence for the host. *Infections of the hand and upper limb.* HRSG. 2007.
40. Stead AG, Sread SM, Kaufman MS, Kent TS. First aid for the surgery clerkship. Boston: McGraw-Hill, 2003.
41. Dugdale DC (2018). Osteomyelitis. Medical Encyclopedia. <https://medlineplus.gov/ency/imagepages/9712.htm>–Diakses Desember 2018.
42. Holtom PD, Patzikis M. Newer methods of antimicrobial delivery for bone and joint infections. *Instr Course Lect.* 2003; 52:745-9.
43. Chen G, Liu B, Liu H, Zhang H, Yang K, Wang Q, et al. Calcium Phosphate Cement loaded with 10% vancomycin delivering high early and late local antibiotic concentration in vitro. *Orthop Traumatol Surg Res.* 2018;104(8):1271-5.
44. Jawetz, Melnick, Adelberg. *Mikrobiologi kedokteran.* Jakarta: Salemba Medika; 2008.
45. Todar K (2008). *Staphylococcus aureus and staphylococcal disease.* Todar's Online Textbook of Bacteriology. <http://textbookofbacteriology.net/....html>–Diakses Desember 2018.
46. Rosenbach FJ. Mikroorganismen bel den Wund infections- krankhelten des Mensch. Wiesbaden:JF Bergmann;1884.
47. Heilmann C. Adhesion mechanisms of staphylococci. *Adv Exp Med Biol.* 2011;715:105–23.
48. Claro T, Widaa A, McDonnell C., Foster TJ, O'Brien FJ, Kerrigan SW. Staphylococcus aureus protein A binding to osteoblast tumour necrosis factor

- receptor 1 results in activation of nuclear factor kappa B and release of interleukin-6 in bone infection. *Microbiology*. 2013;159(1):147–54.
49. Tucker KA, Reilly SS, Leslie CS, Hudson MC. Intracellular staphylococcus aureus induces apoptosis in mouse osteoblasts. *FEMS Microbiol Lett*. 2000;186: 151–6.
 50. Widaa A, Claro T, Foster TJ, O'Brien FJ, Kerrigan SW. Staphylococcus aureus protein a plays a critical role in mediating bone destruction and bone loss in osteomyelitis. *PloS ONE*. 2012; 7: 40586.
 51. Josse J, Velard F, Gangloff SC. Staphylococcus aureus vs osteoblast: relationship and consequences in osteomyelitis. *Front Cell Infect Microbiol*. 2015;5:1–10.
 52. Kementerian Kesehatan Republik Indonesia (Indonesia). Pedoman Umum Penggunaan Antibiotik. Jakarta: Kemenkes; 2011.
 53. Radigan EA, Gilchrist NA, Miller MA. Management of aminoglycosides in the Intensive Care Unit. *J Intensive Care Med*. 2010;25(6):327-42.
 54. Rothrock JC. Alexander's care of the patient in surgery. 14th ed. Bowen B, author. Orthopedic Surgery. St. Louis, MO: Mosby; 2011:741-42.
 55. Penner MJ, Masri BA, Duncan CP. Elution characteristics of vancomycin and tobramycin combined in acrylic bone cement. *J Arthroplasty*. 1996;11:939-44.
 56. Oh EJ, Oh SH, Lee IS, Kwon OS, Lee JH. Antibiotic-eluting hydrophilized PMMA bone cement with prolonged bactericidal effect for the treatment of osteomyelitis. *J Biomater Appl*. 2016;30(10):1534-44.
 57. Soleha TU. Uji kepekaan terhadap antibiotik. *JuKe Unila*. 2015;5(9):119-23.
 58. Squire MD, Ludwig BJ, Thompson JR, Jagodzinski J, Hall D, Andes D. Premixed antibiotic bone cement an in vitro comparison of antimicrobial efficacy. *J Arthroplasty*. 2008;23(6):110-4.
 59. Chang YH, Tai CL, Hsu HY, Hsieh PH, Lee MS, Ueng SWN. Liquid antibiotics in bone cement an effective way to improve the efficiency of antibiotic release in antibiotic loaded bone. *Bone Joint Res*. 2014;3:246–51.
 60. Traub WH, Leonhard B. Heat stability of the antimicrobial activity of sixty-two antibacterial agents. *J Antimicrob Chemother*. 1995;35(1):149-54.
 61. Langlais F, Bunetel L, Segui A, Sassi N, Cormier M. Ciments orthopédiques aux antibiotiques, pharmacocinétique et taux osseux. *Revue de Chirurgie Orthopédique*. 1988; 74: 493-503.
 62. Bunetel L, Segui A, Cormier M, Langlais F. Comparative study of gentamicin release from normal and low viscosity acrylic bone cement. *Clin Pharmacokinet*. 19(4):333-40.

63. He Y, Trotignon JP, Loty B, Tcharkhtchi A, Verdu J. Effect of antibiotics on the properties of poly(methylmethacrylate)-based bone cement. *J Biomed Mater Res*. 2002;63(6):800-6.
64. Jiranek WA, Hanssen AD, Greenwald AS. Antibiotic-loaded bone cement for infection prophylaxis in total joint replacement. *J Bone Joint Surg Am*. 2006;88(11):2487-500.
65. Antimicrobe.org (2018). In vitro Activity of Antimicrobial Agents Against *Staphylococcus aureus*. <http://www.antimicrobe.org/b237tabrev.htm>- Diakses Maret 2019.
66. Chang Y, Tai CL, Hsieh PH, Ueng SW. Gentamicin in bone cement: A potentially more effective prophylactic measure of infectionin joint arthroplasty. *Bone Joint Res*. 2013;2(10):220-6.
67. Duey RE, Chong AC, McQueen DA, Womack JL, Song Z, Steinberger TA, Wooley PH. Mechanical properties and elution characteristics of polymethylmethacrylate bone cement impregnated with antibiotics for various surface area and volume constructs. *Iowa Orthop J*. 2012;32:104-15.

