

DAFTAR PUSTAKA

1. William H, Slattery I. Pathology and diseases of the middle ear. In: Glasscock M, Gulya A. Glasscock-Shambough Surgery of the ear. Fifth edition. Spain: BC Denker Inc; 2003. p.422-33
2. Helmi. Otitis media supuratif kronis. Dalam: Otitis media supuratif kronis. Pengetahuan dasar terapi medik mastoidektomi timpanoplasti. Balai Penerbit FKUI. Jakarta;2005;55-72
3. Radang telinga tengah. Modul telinga tengah. Edisi I. Kolegium ilmu kesehatan telinga hidung tenggorok bedah kepala leher 2008
4. Verhoeff M, Sanders E, Erwin L, Veen V.D, Rovers M.M, M Schilder A.G. Chronic suppurative otitis media: a review. Int J Ped otorhinolaryngol. 2006;70:1-12
5. Soetjipto Damayanti. Otitis media supuratif ronis (OMSK). Komite Nasional Penanggulangan Gangguan Pendengaran dan Ketulian. 2007
6. Aduda D.S.O, Macharia I.M, Mugwe P, OburraH, Faragher Bet al. Bacteriology of chronic suppurative otitis media (CSOM) in children in Garissa district, Kenya: A point prevalence study. Int J Ped otorhinolaryngol. 2013;77:1108-1
7. Chronic Suppurative Otitis Media. Burden of Illness and Management Options. World Health Organization. Geneva, Switzerland.2004
8. Kaya E, Dag I, Incesulu A, Gurbuz M, Acar M et al. Research article. Investigation of the presence of biofilm in chronic suppurative otitis media, nonsuppurative otitis media, and chronic otitis media with cholesteatoma by scanning electron microscopy. The scientific world journal 2013:1-6
9. Madana J, Yolmo D, Kalaiarasi R, Gopalakrishnan S, Sujatha S. Microbiological profile with antibiotic sensitivity pattern of cholesteatomatous chronic suppurative otitis media. Int J Ped otorhinolaryngol.2011;75:1104-08
10. Wang E.W, Jung J.Y, Pasha M.E, Nason R, Scholnick S, Chole R.A. Otopathogenic Pseudomonas aeruginosa strains as competent biofilm formers. Arch otolaryngoll head and neck surgery 2005;131:983-89
11. Syamala R, Sreenivasulu P. The study of bacteriological agents of chronic otitis media-aerobic culture and evaluation. J. Microbiol. Biotech.Res.2012;2(1):152-62
12. Singh A.H, Basu R, Venkatesh A. Aerobic bacteriology of chronic suppurative otitis media in Rajahmundry, Andra Pradesh, India. Biology&Medicine2012;4(2):73-9
13. Munilson J. Pola Kuman aerob dan anaerob pada OMSK tipe aman dan OMSK tipe bahaya si RSUP D. M. Djamil Padang. Tesis. 2009: 1-84
14. Lampikoski H, Aarnisalo A, Jero J, Kinnari T.J. Mastoid biofilm in chronic otitis media. Otol Neurotol. 2012;33:785-8
15. Lasisi A.O, Oluyemi O, Irabor A.E. Early onset otitis media: risk factors and effects on the outcome of chronic otitis media. Eur arch otorhinolaryngol 2008;265:765-8

16. Prince AA, Steiger JD, Khalid AN, Dogrhamji L, Reger C, Claire SE, et al. Prevalence of biofilm-forming bacteria in chronic rhinosinusitis. *Am J Rhinol* 2008;22:239-45
17. Palmer J. Bacterial biofilms in chronic rhinosinusitis. *Annals of Otology, Rhinology & Laryngology* 2006;115(9)Suppl 196:35-9.
18. Sanclement JA, Webster P, Thomas J, Ramadan HH. Bacterial biofilms in surgical specimens of patients with chronic rhinosinusitis. *Laryngoscope* 2005;115:578-82.
19. Galli J, Ardito F, Calo L, Mancinelli L, Imperiali M, Parrilla C, et al. Recurrent upper airway infections and bacterial biofilms. *The Journal of Laryngology & Otology* 2007;121:341-4.
20. Tamashiro E, Antunes MB, Palmer JN, Cohen NA, Anselmo-Lima WT. Implication of bacterial biofilms in chronic rhinosinusitis. *BJID* 2009;13(3):232-5
21. Stodley LH, Hu FZ, Gieseke A, Nistico L, Nguyen D, Hayes J, et al. Direct detection of bacterial biofilms on the middle ear mucosa of children with chronic otitis media. *JAMA* 2006;296:202-11.
22. Saunders J, Murray M, Alleman A. Biofilms in chronic suppurative otitis media and cholesteatoma: scanning electron microscopy findings. *Am J Otolaryngol*. 2011;32:32-7
23. Morris D.P, Hagr A. Biofilm: why the sudden interest? *J Otolaryngol*. 2005;34(2):556-59
24. Pinar E, Oncel S, Karagoz U, Sener G, Calli C, Tatar B. Demonstration of bacterial biofilms in chronic otitis media. *Mediter J Otol*.2008;4:68-8
25. Chole R.A, Faddis B.T. Evidence for microbial biofilm in cholesteatomas. *Arch otolaryngol head neck surg*. 2002;128(10):1129-33
26. Meyer T.A, Strunk C.L, Lambert P.R. Cholesteatoma. In: Bailey BJ, Johnson JT. Head and Neck Surgery-Otolaryngology, 5th edition. Philadelphia: Lipincott Williams and Wilkins Publishers; 2014.p 2433-46
27. Annous B.A, Fratamico P.M, Smith J.L. Quorum sensing in biofilm. *Journal of Food Science*.2009;74:25-37
28. Antony A. Study of biofilm forming capacity of pathogen involved in chronic rhinosinusitis. Disertasi. Auckland: Auckland university of technology;2011.
29. Anastasiadis P, Mojica K., Allen J.S, Matter M.L. Detection and quantification of bacterial biofilms combining high frequency acoustic microscopy and targeted lipid microparticles. *J Nanobiotechnology*. 2014;12:1-11
30. Fux CA, Stoodley P, Stoodley LH, Costerton JW. Bacterial biofilms: a diagnostic and therapeutic challenge. *Expert Rev. Anti-infect Ther*. 2003;1(4):667-83.
31. Psaltis AJ. The role of bacterial biofilms in chronic rhinosinusitis. Disertasi. Department of surgery, Faculty of Health Sciences, The Queen Elizabeth Hospital/University of Adelaide, South Australia, 2008.
32. Mena Viveros N. Biofilms in otolaryngology. *Acta otorrinolaringol*. 2014;65(1):47-52

33. Tiba M, Youssef T, Al-Ajlan A. Does bacterial biofilms have a role in the development of human chronic rhinosinusitis? EJENTAS 2009;10:1-4
34. Lee M.R, Pawlowski K.S, Luong A, Furze A, Roland P.S. Biofilm presence in human with chronic suppurative otitis media. Otolaryngology-head and neck surgery.2009;141:567-71
35. Homoe P, Bjarnsholt T,Wessman M, Sorensen H, Johansen H.K. Morphological evidence of biofilm formation in Greenlanders with chronic suppurative otitis media. Eur arch otorhinolaryngol.2009;266:1533-38
36. Ceri H, Olson ME, Stremick C, Read R, Morck D, Buret A. The Calgary biofilm device: new technology for rapid determination of antibiotic susceptibilities of bacterial biofilms. J.Clin.Microbiol. 1999;37(6):1771-6.
37. Hassan A, Usman J, Kaleem F, Omair M, Khalid A et al. Evaluation of different detection methods of biofilm formation in the clinical isolates. Braz J Infect Dis 2011;15(4):305-11
38. Lawrence J.R., Swerhone D.W, Leppard G.G, Araki T, Zhang X et al. Scanning transmission x ray, laser scanning, and transmission electron microscopy mapping of the exopolymeric matrix of microbial biofilms. ASM. 2003;69:5543-53
39. Rewatkar A.R,Wadher B.J. Staphylococcus and Pseudomonas aeruginosa-Biofilm formation methods.IOSR -JPBS.2013;8(5): 36-40
40. Deka N. Comparison of tissue culture plate method, tube method and congo red agar method for the detection of biofilm formation by coagulase negative staphylococcus isolated from non-clinical isolates. Int.J.Curr.Microbiol.App.Sci.2014;3(10):810-15
41. Oliveira A, Cunha M.L. Comparison of methods for detection of biofilm production in coagulase-negative staphylococci. BMC research notes. 2010. Diakses dari <http://www.biomedcentral.com/1756-0500/3/260>
42. Sharvari S, Chitra P. Evaluation of different detection methods of biofilm formation science. Int J Pharm Bio Sci.2012;3(4):724-33
43. Mathur T. Detection of biofilm formation among the clinical isolates of Staphylococci:an evaluation of three different screening methods. Indian J Med Microbiol. 2006;24(1):25-9
44. Mah T.C, O'Toole G.A. Mechanism of biofilm resistance to antimicrobial agents. Trends in microbiology.2001;9(1):34-9
45. Costerton J.W, Stewart P.S, Greenberg E.P. Bacterial biofilm: a common cause of persistent infections. Science.1999;284:1318-22
46. Hoiby N, Bjarnsholt T, Givskov M, Molin S, Ciofu O. Antibiotic resistance of bacterial biofilms. International journals of antimicrobial agents.2010;35:322-32
47. Del Pozo JL, Rouse MS, Patel R. Bioelectric effect and bacterial biofilm. A systematic review. Int J Artif Organs. 2008;31(9):786-95.
48. Cortes ME, Bonilla JC, Sinisterra RD. Biofilm formation, control and novel strategies for eradication. In: Vilas AM,ed. Science against microbial pathogens communicating current research and technological advances. Brazil:Formatex;2011.p.896-905.

49. Chen M, Yu Q, Sun H. Review. Novel strategies for the prevention and treatment of biofilm related infections. Int.J.Mol.Sci.2013;14:18488-501
50. Aziz S, Aeron A. Bacterial biofilm: dispersal and inhibition strategies. SAJ Biotechnology;1(1):1-10
51. Taraszkiewics A, Fila G, Nakonieczna J. Review article. Innovative strategies to overcome biofilm strategies. Biomed Research International.2013;1-13
52. McBain A.J, David A, Peter G. Emerging strategies for the chemical treatment of microbial biofilms. Biotechnology and Genetic Engineering Review.2000; 17:267-79
53. Coelho F.L, Pereira M.O. Exploring new treatment strategies for *Pseudomonas aeruginosa* biofilm infections based on plant essential oil. Microbial pathogens and strategies for combining them: science, technology and education. 2013;83-9
54. Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Edisi ke-3. Jakarta:Sagung Seto;2008.
55. Benson J, Mwarni L. Chronic suppurative otitis media and cholesteatoma in Australia's refugees population. Research. Australia family physician. 2012;41(12):978-80
56. Bhusal CL, Guragain RPS, Shrivastav RP. Correlation of hearing impairment with site of tympanic membrane perforation. Nepal: Department of otorhinolaryngology head and neck surgery.2005;1-5
57. Shrestha BL, Shresta I, Amatya RC. Comparison of clinical presentation between chronic otitis mediamucosal with squamous. Nepal: Kathmandu Univ Med J.2010;8(3);387-91
58. Becalso M, Xu T, Yeung K, Zheng D. Biofilm formation of *Pseudomonas aeruginosa* PA14 required *lasI* and was stimulated by *Pseudomonas* quinolone signal although salysilic acid inhibition is independent of *pqs pathway*.JEMI.2011;15;84-9
59. Balestrino D, Haagensen J, Rich C, Forestier C. Characterization of type 2 quorum sensing in *Klebsiella pneumoniae* and relationship with biofilm formation. J bacteriol.2005;187(8);2870-80
60. Maldona H, de Ruiz S, Cecillia M, Macias M. A simple technique to detect *Klebsiella* bioforming strains inhibitory potential of *Lactobacillus fermentum* CRL1058 whole cells and product.Comm.curr.res.ed.microbiol.2007;52-9
61. Wei Q, Buyan Z.M. Biofilm matrixs and its regulation in *Pseudomonas aeruginosa*. Int.j.mol.sci.2013: 14; 20983-21005
62. Maniu a, Harabagiu O, Schrepler M, Catana A, Fanuta B et al. Molecular biology of cholesteatoma. Rom j morphol embryol.2014;55(1);7-13
63. Frickman H, Zautner A. Cholesteatoma- a potential consequence of chronic middle ear inflammation. Review article. Otolaryngology.2012;1-8
64. Gotz F. *Staphylococcus* and biofilm. Molecular microbiology.2002;43(6);1367-78
65. Jacobsen s.M, Shirtliff M.E. *Proteus mirabilis* biofilms and catheter associated urinary tract infections. Virulence.2011;2(5);460-5

66. Duliami A, Nauman N, Hasan A, Al-Azawi Z. Virulence factors of *Proteus mirabilis* isolated from patients otitis media in Baquba and its peripheries. Diyala journa of medicine.2011;2(5);69-75

