



DAFTAR PUSTAKA

- Abbott, C.A., Carrington, A.L., Ashe, H., Bath, S., Every, L.C., Griffiths, J., dkk., 2002. The North-West Diabetes Foot Care Study: incidence of, and risk factors for, new diabetic foot ulceration in a community-based patient cohort. *Diabetic medicine*, **19**: 377–384.
- Ackermann, P.W. dan Hart, D.A., 2013. Influence of comorbidities: Neuropathy, vasculopathy, and diabetes on healing response quality. *Advances in Wound Care*, **2**: 410–421.
- Alexiadou, K. dan Doupis, J., 2012. Management of diabetic foot ulcers. *Diabetes Therapy*, **3**: .
- Ali, F., Lokare, N., dan Matew, J., 2016. Diabetic foot ulcers and biofilm formation- The culprits. *International Journal of Biomedical and Advance Research*, **7**: 428–433.
- Al-Rubeaan, K., Al Derwish, M., Ouizi, S., Youssef, A.M., Subhani, S.N., Ibrahim, H.M., dkk., 2015. Diabetic foot complications and their risk factors from a large retrospective cohort study. *PLOS ONE*, **10**: e0124446.
- American Diabetes Association, 2017. 2. Classification and Diagnosis of Diabetes. *Diabetes Care*, **40**: S11–S24.
- Anderson, K. dan Hamm, R.L., 2012. Factors that impair wound healing. *Journal of the American College of Clinical Wound Specialists*, **4**: 84–91.
- Aumiller, W.D. dan Dollahite, H.A., 2015. Pathogenesis and management of diabetic foot ulcers: *Journal of the American Academy of Physician Assistants*, **28**: 28–34.
- Banu, A., Hassan, M.M.N., Rajkumar, J., dan Srinivasa, S., 2015. Spectrum of bacteria associated with diabetic foot ulcer and biofilm formation: A prospective study. *Australasian Medical Journal*, 280–285.
- Bosanquet, D.C. dan Harding, K.G., 2014. Wound duration and healing rates: Cause or effect?: Wound duration and healing rates. *Wound Repair and Regeneration*, **22**: 143–150.
- Büyükcam, A., Tuncer, Ö., Gür, D., Sancak, B., Ceyhan, M., Cengiz, A.B., dkk., 2017. Clinical and microbiological characteristics of Pantoea agglomerans infection in children. *Journal of Infection and Public Health*, .
- CDC, 2014. 'Pseudomonas aeruginosa in Healthcare Settings | HAI | CDC'. URL: <https://www.cdc.gov/hai/organisms/pseudomonas.html> (diakses tanggal 23/11/2017).
- Christman, A.L., Selvin, E., Margolis, D.J., Lazarus, G.S., dan Garza, L.A., 2011. Hemoglobin A1c predicts healing rate in diabetic wounds. *Journal of Investigative Dermatology*, **131**: 2121–2127.
- Chuan, F., Tang, K., Jiang, P., Zhou, B., dan He, X., 2015. Reliability and validity of the perfusion, extent, depth, infection and sensation (PEDIS) classification system and score in patients with diabetic foot ulcer. *PLOS ONE*, **10**: e0124739.
- Clayton, W. dan Elasy, T.A., 2009. A review of the pathophysiology, classification, and treatment of foot ulcers in diabetic patients. *Clinical diabetes*, **27**: 52–58.



- Davis, S.C., Martinez, L., dan Kirsner, R., 2006. The diabetic foot: the importance of biofilms and wound bed preparation. *Current diabetes reports*, **6**: 439–445.
- Donlan, R.M., 2001a. Biofilm formation: a clinically relevant microbiological process. *Clinical Infectious Diseases*, **33**: 1387–1392.
- Donlan, R.M., 2001b. Biofilm formation: a clinically relevant microbiological process. *Clinical Infectious Diseases*, **33**: 1387–1392.
- Eady, E. dan Cove, J., 2003. Staphylococcal resistance revisited: community-acquired methicillin resistant *Staphylococcus aureus* - an emerging problem for the management of skin and soft tissue infections. *Current Opinion in Infectious Diseases*, **16**: 103–124.
- Eleftheriadou, I., Tentolouris, N., Argiana, V., Jude, E., dan Boulton, A.J., 2010. Methicillin-resistant *staphylococcus aureus* in diabetic foot infections: *Drugs*, **70**: 1785–1797.
- Frykberg, R.G., Zgonis, T., Armstrong, D.G., Driver, V.R., Giurini, J.M., Kravitz, S.R., dkk., 2006. Diabetic foot disorders: a clinical practice guideline (2006 revision). *The journal of foot and ankle surgery*, **45**: S1–S66.
- Gilliver, S.C., Ashworth, J.J., dan Ashcroft, G.S., 2007. The hormonal regulation of cutaneous wound healing. *Clinics in Dermatology*, **25**: 56–62.
- Grice, E.A., Snitkin, E.S., Yockey, L.J., Bermudez, D.M., NISC Comparative Sequencing Program, Liechty, K.W., dkk., 2010. Longitudinal shift in diabetic wound microbiota correlates with prolonged skin defense response. *Proceedings of the National Academy of Sciences*, **107**: 14799–14804.
- Guo, S. dan DiPietro, L.A., 2010. Factors affecting wound healing. *Journal of Dental Research*, **89**: 219–229.
- Hardman, M.J. dan Ashcroft, G.S., 2008. Estrogen, not intrinsic aging, is the major regulator of delayed human wound healing in the elderly. *Genome Biology*, **9**: R80.
- Hartemann-Heurtier, A., Robert, J., Jacqueminet, S., Ha Van, G., Golmard, J.L., Jarlier, V., dkk., 2004. Diabetic foot ulcer and multidrug-resistant organisms: risk factors and impact: Original article. *Diabetic Medicine*, **21**: 710–715.
- Hassan, A., Usman, J., Kaleem, F., Omair, M., Khalid, A., dan Iqbal, M., 2011. Evaluation of different detection methods of biofilm formation in the clinical isolates. *The Brazilian Journal of Infectious Diseases*, **15**: 305–311.
- Hills, A.P., Hennig, E.M., Byrne, N.M., dan Steele, J.R., 2002. The biomechanics of adiposity - structural and functional limitations of obesity and implications for movement. *Obesity Reviews*, **3**: 35–43.
- Kateel, R., Augustine, A.J., Prabhu, S., Ullal, S., Pai, M., dan Adhikari, P., 2017. Clinical and microbiological profile of diabetic foot ulcer patients in a tertiary care hospital. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, .
- Katsilambros, N., Dounis, E., Makriliaakis, K., Tentolouris, N., dan Tsapogas, P., 2010. *Atlas of the Diabetic Foot: Katsilambros/Atlas of the diabetic foot*. Wiley-Blackwell, Oxford, UK.



- 'Kementerian Kesehatan Republik Indonesia', , n.d. URL: <http://www.depkes.go.id/article/view/16112200004/perlunya-deteksi-dini-untuk-cegah-dan-kurangi-risiko-diabetes.html> (diakses tanggal 17/2/2017).
- Kwiecinska-Piróg, J., Bogiel, T., Skowron, K., Wieckowska, E., dan Gospodarek, E., 2015. *Proteus mirabilis biofilm - Qualitative and quantitative colorimetric methods-based evaluation*. *Brazilian Journal of Microbiology*, **45**: 1423–1431.
- Lavery, L.A., Armstrong, D.G., dan Harkless, L.B., 1996. Classification of diabetic foot wounds. *The Journal of Foot and Ankle Surgery*, **35**: 528–531.
- Lavery, L.A., Fontaine, J.L., Bhavan, K., Kim, P.J., Williams, J.R., dan Hunt, N.A., 2014. Risk factors for methicillin-resistant *Staphylococcus aureus* in diabetic foot infections. *Diabetic Foot & Ankle*, **5**: 23575.
- Lipsky, B.A., Berendt, A.R., Cornia, P.B., Pile, J.C., Peters, E.J.G., Armstrong, D.G., dkk., 2012. 2012 Infectious diseases society of america clinical practice guideline for the diagnosis and treatment of diabetic foot infections. *Clinical Infectious Diseases*, **54**: e132–e173.
- Lipsky, B.A., Berendt, A.R., Deery, H.G., Embil, J.M., Joseph, W.S., Karchmer, A.W., dkk., 2004. Diagnosis and treatment of diabetic foot infections. *Clinical Infectious Diseases*, **39**: 885–910.
- Malik, A., Mohammad, Z., dan Ahmad, J., 2013. The diabetic foot infections: Biofilms and antimicrobial resistance. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, **7**: 101–107.
- Mottola, C., Mendes, J.J., Cristino, J.M., Cavaco-Silva, P., Tavares, L., dan Oliveira, M., 2016. Polymicrobial biofilms by diabetic foot clinical isolates. *Folia Microbiologica*, **61**: 35–43.
- Murali, T.S., Kavitha, S., Spoorthi, J., Bhat, D.V., Prasad, A.S.B., Upton, Z., dkk., 2014. Characteristics of microbial drug resistance and its correlates in chronic diabetic foot ulcer infections. *Journal of Medical Microbiology*, **63**: 1377–1385.
- Olson, M.E., Ceri, H., Morck, D.W., Buret, A.G., dan Read, R.R., 2002. Biofilm bacteria: formation and comparative susceptibility to antibiotics. *Canadian Journal of Veterinary Research*, **66**: 86–92.
- Pemayun, T.G.D. dan Naibaho, R.M., 2017. Clinical profile and outcome of diabetic foot ulcer, a view from tertiary care hospital in Semarang, Indonesia. *Diabetic Foot & Ankle*, **8**: 1312974.
- Prompers, L., Huijberts, M., Apelqvist, J., Jude, E., Piaggesi, A., Bakker, K., dkk., 2007. High prevalence of ischaemia, infection and serious comorbidity in patients with diabetic foot disease in Europe. Baseline results from the Eurodiale study. *Diabetologia*, **50**: 18–25.
- Prompers, L., Schaper, N., Apelqvist, J., Edmonds, M., Jude, E., Mauricio, D., dkk., 2008. Prediction of outcome in individuals with diabetic foot ulcers: focus on the differences between individuals with and without peripheral arterial disease. The EURODIALE Study. *Diabetologia*, **51**: 747–755.
- Raymakers, J.T., Houben, A.J., Heyden, J.J. vd, Tordoir, J.H., Kitslaar, P.J., dan Schaper, N.C., 2001. The effect of diabetes and severe ischaemia on the



- penetration of ceftazidime into tissues of the limb. *Diabetic Medicine*, **18**: 229–234.
- Reiber, G.E., Vileikyte, L., Boyko, E. de, Del Aguila, M., Smith, D.G., Lavery, L.A., dkk., 1999. Causal pathways for incident lower-extremity ulcers in patients with diabetes from two settings. *Diabetes care*, **22**: 157–162.
- Römling, U. dan Balsalobre, C., 2012. Biofilm infections, their resilience to therapy and innovative treatment strategies. *Journal of Internal Medicine*, **272**: 541–561.
- Roth, J., Qiang, X., Marbán, S.L., Redelt, H., dan Lowell, B.C., 2004. The obesity pandemic: where have we been and where are we going? *Obesity Research*, **12**: 88S–101S.
- Sawasdidoln, C., Taweechaisupapong, S., Sermswan, R.W., Tattawasart, U., Tungpradabkul, S., dan Wongratanacheewin, S., 2010. Growing Burkholderia pseudomallei in biofilm stimulating conditions significantly induces antimicrobial resistance. *PLoS ONE*, **5**: e9196.
- Shanmugam, P., 2013. The bacteriology of diabetic foot ulcers, with a special reference to multidrug resistant strains. *JOURNAL of CLINICAL AND DIAGNOSTIC RESEARCH*, .
- Sharma, M., Dogra, B.B., Misra, R., Gandham, N., Sardar, M., dan Jadhav, S., 2012. Multidrug resistant Pantoea agglomerans in a patient with septic arthritis-a rare report from India. *International Journal of Microbiology Research*, **4**: 263.
- Simons, H. dan Alcabes, P., 2008. A model for surveillance of methicillin-resistant *Staphylococcus Aureus*. *Public Health Reports*, **123**: 21–29.
- Sohn, M.-W., Budiman-Mak, E., Lee, T.A., Oh, E., dan Stuck, R.M., 2011. Significant J-shaped association between body mass index (BMI) and diabetic foot ulcers. *Diabetes/Metabolism Research and Reviews*, **27**: 402–409.
- Stewart, P.S., 2002. Mechanisms of antibiotic resistance in bacterial biofilms. *International Journal of Medical Microbiology*, **292**: 107–113.
- Sugiyono, 2016. 'Evaluasi kesesuaian antibiotik definitif terhadap clinical outcome dan gambaran antibiogram pada pasien ulkus diabetik di RSUP Dr Sardjito Yogyakarta', . Universitas Gadjah Mada.
- Tan, B.J., 1995. Cefixime use in children: When and why. *The Canadian Journal of Infectious Diseases*, **6**: 204–205.
- Wells, B.G., DiPiro, J.T., Schwinghammer, T.L., dan DiPiro, C.V., 2015. *Pharmacotherapy Handbook*.
- Wilson, J.A. dan Clark, J.J., 2003. Obesity: impediment to wound healing. *Critical Care Nursing Quarterly*, **26**: 119–132.
- Wolcott, R.D., Kennedy, J.P., dan Dowd, S.E., 2009. Regular debridement is the main tool for maintaining a healthy wound bed in most chronic wounds. *Journal of wound care*, **18**: 54–56.
- Wolcott, R.D. dan Rhoads, D.D., 2008. A study of biofilm-based wound management in subjects with critical limb ischaemia. *Journal of Wound Care*, **17**: 145–155.



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DIABETES RSUP DR.

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Young, M.J., Boulton, A.J.M., Macleod, A.F., Williams, D.R.R., dan Sonksen, P.H., 1993. A multicentre study of the prevalence of diabetic peripheral neuropathy in the United Kingdom hospital clinic population. *Diabetologia*, **36**: 150–154.

Young, M.J., Breddy, J.L., Veves, A., dan Boulton, A.J.M., 1994. The prediction of diabetic neuropathic foot ulceration using vibration perception thresholds: A prospective study. *Diabetes Care*, **17**: 557–560.

Zubair, M., Malik, A., dan Ahmad, J., 2011. Clinico-microbiological study and antimicrobial drug resistance profile of diabetic foot infections in North India. *The Foot*, **21**: 6–14.