

DAFTAR PUSTAKA

- Al-Khafaji, AH, Sharma, S, Eschun, G, Pinsky, MR, Franklin, C, Oullette, DR, & Talavera, F 2017, 'Multiple organ dysfunction syndrome in sepsis', *Medscape*, diakses 19 November 2017
<https://emedicine.medscape.com/article/169640-overview>
- Baer, G, Bauamann, P, Buettcher, M, Buettcher, M, Heininger, U, Berthet, G, Schafer, J, Bucher, HC, Trachsel, D, Schneider, J, Gampon, M, Reppucci, D, Bonhoeffer, JM, Stahelin-Massik, J, Schuetz, P, Mueller, B, Szinnai, G, Schaad, UB, & Bonhoeffer, J 2013, 'Procalcitonin guidance to reduce antibiotic treatment of lower respiratory tract infection in children and adolescents (ProPAED): A randomized controlled trial', *PLoS One*, diakses 17 November 2017
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0068419>
- Beran, O, Potmesil, R, & Holub, M 2011, 'Differences in Toll-like receptor expression and cytokine production after stimulation with heat-killed gram-positive and gram-negative bacteri', *Folia Microbiol*, vol. 56, hlm. 138 – 142, diakses 28 Oktober 2017
<https://www.ncbi.nlm.nih.gov/pubmed/21399944>
- Brealey, D, Brand, M, Hargreaves I, Heales, S, Land, J, Smolenski, R, Davies, NA, Cooper, CE, & Singer, M 2002, 'Association between mitochondrial dysfunction and severity and outcome of septic shock', *Lancet*, vol. 360, July 2002, hlm. 219 – 223, diakses 12 Agustus 2017
<https://www.ncbi.nlm.nih.gov/pubmed/12133657>
- Brooks, GF, Carroll, KC, Butel, JS, Morse, SA, & Mietzner, TA 2013, *Jawetz, Melnick & Adelberg's Medical Microbiology: 26th Edition*, The McGraw-Hill Companies, United States.
- Centers for Disease Control Prevention 2017, *Sepsis: Data and reports*, diakses 30 Desember 2017
<https://www.cdc.gov/sepsis/datareports/index.html>
- Charles, PE, Ladoire, S, Aho, S, Queno, JP, Doise, JM, Prin, S, Olsson, NO, & Blettry, B 2008, 'Serum procalcitonin elevation in critically ill patients at the onset of bacteremia caused by either gram negative or gram positive bacteria', *BMC Infect Dis*, vol. 8, no. 38, diakses 29 Maret 2018
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2289831/>
- Chaudhury, A, Sachin Sumant, GL, Jayaprada, R, Kalawat, U, & Ramana, BV 2013, 'Procalcitonin in sepsis and bacterial infections', *J Clin Sci Res*, vol. 2, hlm. 216-224, diakses 29 April 2017

http://svimstpt.ahlm.nic.in/jcsr/oct-dec13_files/RA.pdf

Chivate, CG, Belwalkar, GJ, Limaye, RP, & Patil, RV 2016, ‘Procalcitonin as a marker for the diagnosis of sepsis’, *Int J Res Med Sci*, vol.4, no. 4, April 2016, hlm. 1216-1218, diakses 29 April 2017
<http://www.msjonline.org/index.php/ijrms/article/download/679/664>

Christ-Crain, M, & Opal, SM 2010, ‘Clinical review: The role of biomarkers in the diagnosis and management of community-acquired pneumonia’, *Critical Care*, vol. 14, no. 203, February 2010, hlm. 1 – 11, diakses 7 September 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2875480/>

Coriejati, Iqbal, M, & Pranggono, EH 2015, ‘Pola bakteri dan usia pasien terhadap prokalsitonin di pneumonia komunitas dan nosokomial’, *Indonesian Journal of Clinical Pathology and Medical Laboratory*, vol. 2, no. 2, Maret 2015, hlm. 153-157, diakses 16 Maret 2017
<http://journal.unair.ac.id/download-fullpapers-cpm159f48bb3e9full.pdf>

Dahlan, S 2009, *Besar sampel dan cara pengambilan sampel dalam penelitian kedokteran dan kesehatan*, Edisi 2, Penerbit Salemba Medika, Jakarta.

Dahlan, S 2010, *Langkah-langkah membuat proposal penelitian bidang kedokteran dan kesehatan*, Sagung Seto, Jakarta.

Dahlan, S 2014, *Statistik untuk kedokteran dan kesehatan: deskriptif, bivariat, multivariat, dilengkapi aplikasi dengan menggunakan SPSS*, Edisi 5, Penerbit Salemba Medika, Jakarta.

Dellinger, PR, Levy, MM, Rhodes, A, Annane D, Gerlach, H, Opal, SM, Sevransky, JE, Sprung, CL, Douglas, IS, Jaeschke, R, Osborn, TM, Nunnally, ME, Townsend, SR, Reinhart, K, Kleinpell, RM, Angus, DC, Deutschman, CS, Machado, FR, Rubenfeld, GD, Webb, SA, Beale, RJ, Vincent, JL, & Moreno, R 2013, ‘International guidelines for management of severe sepsis and septic shock: 2012’, *Intensive Care Medicine*, vol.41, no. 2, hlm.580 – 637, diakses 9 Maret 2017
<https://www.sccm.org/Documents/SSC-Guidelines.pdf>

De Gaudio, AR, Rinaldi, S, Chelazzi, C, & Borracci, T 2009, ‘Pathophysiology of sepsis in the elderly: clinical impact and therapeutic considerations’, *Curr Drug Targets*, vol. 10, no. 1, diakses 11 Maret 2018
<https://www.ncbi.nlm.nih.gov/pubmed/19149537/>

De Oliveira, YPA, Pontes-de-Carvalho LC, Couto, RD, & Noronha-Dutra, AA 2017, ‘Oxidative stress in sepsis. Possible production of free radicals through an erythrocyte-mediated positive feedback mechanism’, *Braz J Infect Dis*, vol. 21, no. 1, March 2016, hlm. 19 – 26, diakses 19 November 2017

<http://www.scielo.br/pdf/bjid/v21n1/1413-8670-bjid-21-01-0019.pdf>

Elson, G, Dunn-Siegrist, I, Daubeuf, B, & Pugin, J 2007, ‘Contribution of Toll-like receptors to the innate immune response to Gram-negative and Gram-positive bacteria’, *The American Society of Hematology*, vol. 9, no. 4, hlm. 1574-1583, diakses 27 Oktober 2017
<http://www.bloodjournal.org/content/bloodjournal/109/4/1574.full.pdf>

El-Menyar, A, Al Thani, H, Zakaria, ER, Zarour, A, Tuma, M, AbdulRahman, H, Parchani, A, Peralta, R, & Latifi, R 2012, ‘Multiple organ dysfunction syndrome (MODS): is it preventable or inevitable?’, *International Journal of Clinical Medicine*, vol. 3, November 2012, hlm. 722 – 730, diakses 18 November 2017
https://file.scirhlm.org/pdf/IJCM_2013010210123433.pdf

Evrard, B, Balestrino, D, Dosgilbert, A, Bouya-Gachancard, J, Charbonnel, N, Forestier, C, & Tridon, A 2010, ‘Roles of capsule and lipopolysaccharide O antigen in interactions of human monocyte-derived dendritic cells and *Klebsiella pneumoniae*’, *Infect Immun*, vol. 78, diakses 14 Maret 2018
<http://iai.asm.org/content/78/1/210.full>

Fleischman, C, Scherag, A, Adhikari, NKJ, Hartog, CS, Tsaganos, T, Schlattmann, P, Angus, DC, & Reinhart, K 2016, ‘Assessment of global incidence and mortality of hospital-treated sepsis. Current estimates and limitations’, *Am J Respir Crit Care Med*, September 2015, hlm. 1 – 61, diakses 27 Oktober 2017
<https://www.ncbi.nlm.nih.gov/pubmed/26414292>

Florian, BM, Sachin, Y, & Derek, CA 2014, ‘Epidemiology of Severe Sepsis. Virulence’, *Landes Bioscience*, vol. 5, no. 1, January 2014, hlm. 4 – 11, diakses 10 Maret 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3916382/>

Fujishima, S 2016, ‘Organ dysfunction as a new standard for defining sepsis’, *Inflammation and Regeneration*, vol. 36, no. 24, hlm. 1 – 6, diakses 17 November 2017
<https://inflammregen.biomedcentral.com/articles/10.1186/s41232-016-0029-y>

Gillespie, S, & Bamford, K 2012, *Medical microbiology and infection at a glance: Fourth edition*, Wiley-Blackwell, United Kingdom.

Gotts, JE, & Matthay, MA 2016, ‘Sepsis: Pathophysiology and clinical management’, *BMJ*, hlm. 1 – 20, diakses 16 Maret 2017
<https://www.ncbi.nlm.nih.gov/pubmed/27217054>

Grace, E, & Turner, RM 2014, ‘Use of procalcitonin in patients with various degrees of chronic kidney disease including renal replacement therapy’,

- Clinical Infectious Diseases*, vol. 59, no. 12, hlm. 1761 – 1767, diakses 21 Maret 2018
<https://academic.ouhlm.com/cid/article-abstract/59/12/1761/2895708>
- Guo, B, & Cheng, G 2007, ‘Modulation of the interferon antiviral response by the TBK1/IKKi adaptor protein TANK’, *The Journal of Biological Chemistry*, vol. 282, no. 16, hlm. 11817-11826, diakses 17 Februari 2018
<http://www.jbc.org/content/282/16/11817.full>
- Guo, SY, Zhou, Y, Hu, QF, Yao, J, Wang, H 2015, ‘Procalcitonin is a marker of gram-negative bacteremia in patients with sepsis’, *The American Journal of The Medical Sciences*, vol.349, no.6, June 2015, hlm. 499, diakses 25 Agustus 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4450899/>
- Guntur (ed.) 2015, *Buku ajar ilmu penyakit dalam jilid III*, Edisi 4, Fakultas Kedokteran Universitas Indonesia, Jakarta.
- Herran-Monge, R, Mmuriel-Bombin, A, Garcia-Garcia, MM, Merino-Garcia, PA, Martinez-Barrios, M, Andaluz, D, Ballesteros, JC, Dominguez-Berrot, AM, Moradillo-Gonzalez, S, Macias, S, Alvarez-Martines, B, Fernandez-Calavia, MJ, Tarancon C, Villar, J, & Blanco, J 2017, ‘Epidemiology and changes in mortality of sepsis after the implementation of surviving sepsis campaign guidelines’, *Journal of Intensive Care Medicine*, hlm. 1 – 11, diakses 29 Maret 2017
<http://journals.sagepub.com/doi/pdf/10.1177/0885066617711882>
- Holden, VI 2016, *The impact of siderophores and iron acquisition on klebsiella pneumoniae pathogenesis*, Thesis for Degree of Doctor of Philosophy (Microbiology and Immunology), University of Michigan.
- Hsieh, PF, Lin, TL, Yang, FL, Wu, MC, Pan, YJ, Wu, SH, & Wang, JT 2012, ‘Lipopolysaccharide O1 antigen contributes to the virulence in *Klebsiella pneumoniae* causing pyogenic liver abscess’, *PLoS One*, vol. 7, no. 3, diakses 12 Maret 2018
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3299736/>
- Jain, S, Sinha, S, Sharma, SK, Samantaray, JC, Aggrawal, P, Vikram, NK, Biswas, A, Sood, S, Goel, M, Das, M, Vishnubhatla, S, & Khan, N 2014, ‘Procalcitonin as a prognostic marker for sepsis: a prospective observational study’, *BMC Res Notes*, vol. 7, no. 458, hlm. 1 – 7, diakses 18 November 2017
<https://bmcresnotes.biomedcentral.com/articles/10.1186/1756-0500-7-458>
- Jun, Y, Song, L, & Shulin, L 2015, ‘The role of the liver in sepsis’, *Int Rev Immunol*, vol. 33, no. 6, hlm. 498 – 510, diakses 19 November 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4160418/>

Kayser, FH, Bienz, KA, Eckert, J, & Zinkernagel, RM 2005, *Medical Microbiology*, Thieme, New York.

Kleinschmidt, S, Huygens, Faoagali, J, Rathnayake, IU, & Hafner, LM 2015, 'Staphylococcus epidermidis as a cause of bacteremia', *Future Microbiol*, vol.10, diakses 12 Maret 2018
<https://www.futuremedicine.com/doi/full/10.2217/fmb.15.98>

Kochanek, KD, Murphy, SL, Xu, J, & Tejada-Vera 2016, 'Deaths: final data for 2014', *Natl Vital Stat Rep*, vol. 65, no. 4, hlm. 1-121, diakses 2 April 2018
https://www.cdc.gov/nchs/data/nvsr/nvsr65/nvsr65_04.pdf

Kordekag, A 2011, 'Concentrations of procalcitonin and C-reactive protein, white blood cell count, and the immature-to-total neutrophil ratio in the blood of neonates with nosocomial infections: Gram-negative bacilli vs coagulase-negative staphylococci', *Eur J Clin Microbiol Infect Dis*, vol. 30, no. 3, diakses 3 Januari 2018
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3034916/>

Kumar, S, Ingle, H, Prasad, DVR, & Kumar, H 2013, 'Recognition of bacterial infection by innate immune sensors', *Critical Reviews in Microbiology*, vol. 39, no. 3, hlm. 229-246, diakses 27 Oktober 2017
<https://www.ncbi.nlm.nih.gov/pubmed/22866947>

Leli, C, Ferranti, M, Moretti, A, Al Dhahab, ZS, Cenci, E, & Mencacci, A 2015, 'Procalcitonin levels in gram-positive, gram-negative, and fungal bloodstream infections', *Disease Markers*, vol. 2015, diakses 12 Maret 2018
<https://www.hindawi.com/journals/dm/2015/701480/>

Levy, MM, Fink, MP, Marshall, JC, Abraham, E, Angus, D, Cook, D, Cohen, J, Opal, SM, Vincent, JL, & Ramsay, G 2003, '2001 SCCM/ESICM/ACCP/ATS/SIS Internatioal Sepsis Definitions Conference', *Intensive Care Med*, vol.29, hlm.530 – 538, diakses 18 Juni 2017
<http://www.zirkin.com/em/articles/Sepsis/2001%20Sepsis%20Definitions%20Conference.pdf>

Li, S, Rong, H, & Guo, Q 2016, 'Serum procalcitonin levels distinguish Gram-negative bacterial sepsis from Gram-positive bacterial and fungal sepsis', *J Res Med Sci*, vol. 21, no. 39, hlm. 1 – 8, diakses 27 Oktober 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5122113/>

Mancini, N, Carletti, S, Ghidoli, N, Cichero, P, Burioni, R, & Clementi, M 2010, 'The era of molecular and other non-culture-based methods in diagnosis of sepsis', *Clinical Microbiology Reviews*, vol. 23, no.1, hlm. 235 – 251, diakses 12 Agustus 2017
<https://www.ncbi.nlm.nih.gov/pubmed/20065332>

- Mellhammar, L, Wullt, S, Lindberg, A, Lanbeck, P, Christensson, B, & Linder, A 2016, ‘Sepsis incidence: a population-based study’, *Open Forum Infectious Disease*, diakses 29 Maret 2018
<http://sepsisfonden.se/wp-content/uploads/2017/03/Mellhammar-2016-OFID-Sepsisincidence.pdf>
- Nasronudin (ed.) 2011, *Penyakit infeksi di Indonesia solusi kini dan mendatang*, Edisi kedua, Pusat Penerbitan dan Percetakan Unair, Surabaya.
- Nasa, P, Juneja, D, & Singh, O 2012, ‘Severe sepsis and septic shock in the elderly: an overview’, *World J Crit Care Med*, vol. 1, no. 1, diakses 10 Maret 2018
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3956061/>
- Novak-Weekley, SM, & Dunne, M 2016, *Blood culture: A key investigation for diagnosis of bloodstream infections*, Biomerieux, United States.
- Opal, SM, Girard, TD, & Ely, EW 2005, ‘The immunopathogenesis of sepsis in elderly patients’, *Clin Infect Dis*, diakses 11 Maret 2018
<https://www.ncbi.nlm.nih.gov/pubmed/16237654>
- Parija, SC 2012, *Textbook of microbiology and immunology: 2nd edition*, Elsevier, India.
- Paolucci, M, Landini, MP, Sambri, V 2012, ‘How can the microbiologist help in diagnosing neonatal sepsis’, *Int J Pediatr*, diakses 25 Agustus 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3272815/>
- Saraswati, PFD 2012, *Faktor yang Berhubungan dengan Hasil Tes Prokalsitonin pada Sepsis*, Skripsi Program Pendidikan Sarjana Kedokteran, Universitas Diponegoro
http://eprints.undip.ac.id/37737/1/Putu_Frisca_G2A008146_Lap.KTI.pdf
- Schuetz, P, Muller, B, Christ-Crain, M, Stolz, D, Tamm, M, Bouadma, L, Luyt, CE, Wolff, M, Chastre, J, Tubach, F, Kristoffersen, KB, Burkhardt, O, Welte, T, Schroeder, S, Nobre, V, Wei, L, Bhatnagar, N, Bucher, HC, & Briel, M 2013, ‘Procalcitonin to initiate or discontinue antibiotics in acute respiratory tract infections’, *Evid Based Child Health*, vol. 8, no. 4, hlm. 1297 – 1371, diakses 17 November 2017
<http://onlinelibrary.wiley.com/resolve/doi?DOI=10.1002/ebch.1927>
- Shin, YJ, Ki, M, & Foxman, B 2009, ‘Epidemiology of neonatal sepsis in South Korea’, *Pediatr Int*, vol. 51, no. 2, April 2009, diakses 10 Maret 2017
<https://www.ncbi.nlm.nih.gov/pubmed/19405921>
- Singer, M, Deutschman, CS, Seymour, CW, Shankar-Hari, M, Annane, D, Bauer, M, Bellomo, R, Bernard, GR, Chiche, JD, Coopersmith, CM, Hotchkiss,

- RS, Levy, MM, Marshall, JC, Martin, GS, Opal, SM, Rubenfeld, GD, Van der Poll, T, Vincent, JL, & Angus, DC 2016, ‘The third international consensus definitions for sepsis and septic shock (sepsis-3)’, *JAMA*, vol. 315, no. 8, February 2016, hlm. 801-810, diakses 9 Maret 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4968574/>
- Soreng, K, Levy, R 2011, ‘Procalcitonin: an emerging biomarker of bacterial sepsis’, *Clinical Microbiology Newsletter*, vol. 33, no. 22, November 2011, hlm. 171-177, diakses 12 Maret 2017
<http://www.sciencedirect.com/science/article/pii/S0196439911000493>
- Suharto (ed.) 2011, *Penyakit infeksi di Indonesia solusi kini dan mendatang*, Edisi kedua, Pusat Penerbitan dan Percetakan Unair, Surabaya.
- Susanti, F 2015, *Hubungan procalcitonin dengan hasil positif kultur bakteri pada pasien sepsis*, Tesis Program Pendidikan Dokter Spesialis 1, Universitas Gadjah Mada
http://etd.repository.ugm.ac.id/index.php?mod=penelitian_detail&sub=PenelitianDetail&act=view&typ=html&buku_id=80351&obyek_id=4
- Tambajong, RN, Lalenoh, DC, & Kumaat, L 2016, ‘Profil Penderita Sepsis di ICU RSUP Prof. Dr. R. D. Kandou Manado Periode Desember 2014 – November 2015’, *Jurnal e-Clinic*, vol. 4, no. 1, Januari-Juni 2016, diakses 17 Maret 2017
<https://ejournal.unsrat.ac.id/index.php/eclinic/article/view/11011>
- Tomar, P, Garg, A, Gupta, R, Singh, A, Gupta, NK, & Upadhyay, A 2017, ‘Simultaneous two-site blood culture for diagnosis of neonatal sepsis’, *Indian Pediatr*, vol. 54, no.3, March 2017, hlm. 199 – 203, diakses 19 November 2017
<https://www.ncbi.nlm.nih.gov/pubmed/28159945>
- Uslan, DZ 2016, ‘Procalcitonin at UCLA’, *Mednet*, diakses 18 November 2017
https://ashlm.mednet.ucla.edu/files/view/Procalcitonin_Summary.pdf
- Villeneuve, A, Joyal, JS, Proulx, F, Ducruet, T, Poitras, N, & Lacroix, J 2016, ‘Multiple organ dysfunction syndrome in critically ill children: clinical value of two lists of diagnostic criteria’, *Ann Intensive Care*, vol. 6, no. 40, April 2016, diakses 17 November 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4851677/>
- Walter, MA, Meier, C, Radimerski, T, Iten, F, Kranzlin, M, Muller-Brand, J, de Groot, JWB, Kema, IP, Links, TP, & Muller, B 2009, ‘Procalcitonin levels predict clinical course and progression-free survival in patients with medullary thyroid cancer’, *Wiley InterScience*, hlm. 31 – 40, diakses 22 Maret 2018
<https://onlinelibrary.wiley.com/doi/pdf/10.1002/cncr.24738>

Wayne, PA 2007, ‘Principles and procedures for blood cultures; Approved guideline, CLSI document M47-A’, *Clinical and Laboratory Standards Institute (CLSI)*, vol. 27, no. 17, diakses 19 November 2017
https://clsi.org/media/1448/m47a_sample.pdf

Watanabe, Y, Oikawa, N, Hariu, M, Fuke, R, & Seki, M 2016, ‘Ability of procalcitonin to diagnose bacterial infection and bacteria types compared with blood culture findings’, *Int J Gen Med*, vol. 9, September 2016, diakses 18 November 2017
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5053384/#b12-ijgm-9-325>

