

DAFTAR PUSTAKA

- Ahmed, I., Sajed, M., Sultan, A., Murtaza, I., Yousaf, S., Maqsood, B., Vanhara, P. and Anees, M. 2015. The Erratic Antibiotic Susceptibility Patterns of Bacterial Pathogens Causing Urinary Tract Infections. *EXCLI J.*, 14:916-925. doi: 10.17179/excli2015-207
- Arato, V., Raso, M., Gasperini, G., Scorza, B.F., Micoli, F. 2021. Prophylaxis and Treatment against *Klebsiella pneumoniae*: Current Insights on This Emerging Anti-Microbial Resistant Global Threat. *Int. J. Mol. Sci.*, 22(8):4042. doi: 10.3390/ijms22084042
- Ashurst, J., Dawson, A. 2021. *Klebsiella Pneumonia*. [Internet, cited Sept 30th 2019] Treasure Island: StatPearls Publishing. Available on: <https://www.ncbi.nlm.nih.gov/books/NBK519004/>
- Aslam, B., Wang, W., Arshad, M., Khurshid, M., Muzammil, S., Rasool, M., Nisar, M., Alvi, R., Aslam, M., Qamar, M., Salamat, M. and Baloch, Z., 2018. Antibiotic resistance: a rundown of a global crisis. *Infect. Drug Resist.*, 11:1645-1658. doi: 10.2147/IDR.S173867
- Bayot, M., Bragg, B. 2021. *Antimicrobial Susceptibility Testing*. [Internet, cited Dec 3rd 2021] Treasure Island: StatPearls Publishing. Available on: <https://www.ncbi.nlm.nih.gov/books/NBK539714/>
- Bedi, R. 2006. Community acquired pneumonia - Typical or atypical ?. *Lung India*, 23(3):130. doi: 10.4103/0970-2113.44406
- Benkova, M., Soukup, O., Marek, J. 2020. Antimicrobial susceptibility testing: currently used methods and devices and the near future in clinical practice. *J. Appl. Microbiol.*, 129(4):806-822. doi: 10.1111/jam.14704
- CDC. 2019. *Antibiotic resistance threats in the United States*. [Internet, cited Oct 28th 2021] Atlanta: Centers for Disease Control and Prevention. Available on: <https://www.cdc.gov/drugresistance/index.html>

- CDC. 2021. *Klebsiella pneumoniae in Healthcare Settings | HAI | CDC*. [Internet, cited Dec 2nd 2021] Atlanta: Centers for Disease Control and Prevention. Available on: <https://www.cdc.gov/hai/organisms/klebsiella/klebsiella.html>
- Ciptaningtyas, V., De Mast, Q., De Jonge, M. 2021. The burden and etiology of lower respiratory tract infections in children under five years of age in Indonesia. *J. Infect. Dev. Ctries.*, 15(5):603-614. doi: 10.3855/jidc.14268
- Dinas Kesehatan Daerah Istimewa Yogyakarta. 2020. *PROFIL KESEHATAN DAERAH ISTIMEWA YOGYAKARTA TAHUN 2019*. Yogyakarta: Dinas Kesehatan Daerah Istimewa Yogyakarta, pp.41-42.
- Effah, C.Y., Sun, T., Liu, S., Wu, Y. 2020. *Klebsiella pneumoniae*: an increasing threat to public health. *Ann. Clin. Microbiol.*, 19(1):8. doi: 10.1186/s12941-019-0343-8
- Elmawati, E., Pratiwi, D., Muthmainah, N., Biworo, A. 2021. Antibiotic Susceptibility Pattern of Extended-Spectrum Beta-Lactamase-Producing *Klebsiella Pneumoniae* and *Escherichia Coli*. *Indones. J. Clinical. Pathol. Med. Laboratory.*, 27(3):282-288.
- Falagas, M.E., Mourtzoukou, E.G., Vardakas, K.Z. 2007. Sex differences in the incidence and severity of respiratory tract infections. *Respir. Med.*, 101(9):1845-1863. doi: 10.1016/j.rmed.2007.04.011
- Farida, H., Gasem, M., Suryanto, A., Keuter, M., Zulkarnain, N., Satoto, B., van der Eijk, A., Djokomoeljanto, R., Wahyono, H., Verbrugh, H., Severin, J., van den Broek, P. 2015. Viruses and Gram-negative bacilli dominate the etiology of community-acquired pneumonia in Indonesia, a cohort study. *Int. J. Infect. Dis.*, 38:101-107. doi: 10.1016/j.ijid.2015.07.023
- Guo, S., Xu, J., Wei, Y., Xu, J., Li, Y. and Xue, R., 2016. Clinical and molecular characteristics of *Klebsiella pneumoniae* ventilator-associated pneumonia in mainland China. *BMC Infect. Dis.*, 16(1):1. doi: 10.1186/s12879-016-1942-z

- Guo, Y., Cen, Z., Zou, Y., Fang, X., Li, T., Wang, J., Chang, D., Su, L., Liu, Y., Chen, Y., Yang, R., Liu, C. 2012. Whole-Genome Sequence of *Klebsiella pneumoniae* Strain LCT-KP214. *J. Bacteriol.*, 194(12):3281. doi: 10.1128/JB.00531-12
- Haque, M., Sartelli, M., McKimm, J., Abu Bakar, M. 2018. Health care-associated infections – an overview. *Infect. Drug Resist.*, 11:2321-2333. doi: 10.2147/IDR.S177247
- Holden, V., Breen, P., Houle, S., Dozois, C., Bachman, M. 2016. *Klebsiella pneumoniae* Siderophores Induce Inflammation, Bacterial Dissemination, and HIF-1 α Stabilization during Pneumonia. *mBio*, 7(5):1. doi: 10.1128/mBio.01397-16
- Indrajith, S., Mukhopadhyay, A., Chowdhury, G., Farraj, D., Alkufeidy, R., Natesan, S., Meghanathan, V., Gopal, S., Muthupandian, S. 2021. Molecular insights of Carbapenem resistance *Klebsiella pneumoniae* isolates with focus on multidrug resistance from clinical samples. *J. Infect. Public Health*, 14(1):131-138. doi: 10.1016/j.jiph.2020.09.018
- Islam, R., Hossain, M., Chakma, N., Khanom, A., Mazumder, T., Islam, M. 2021. Prevalence, risk factors, and interventions for chronic obstructive pulmonary disease in South Asia: a scoping review protocol. *Biomed Cent. Syst. Rev.*, 10(20):1. doi: 10.1186/s13643-020-01556-7
- Jafari, Z., Harati, A., Haeili, M., Kardan-Yamchi, J., Jafari, S., Jabalameli, F., Meysamie, A., Abdollahi, A., Feizabadi, M. 2019. Molecular Epidemiology and Drug Resistance Pattern of Carbapenem-Resistant *Klebsiella pneumoniae* Isolates from Iran. *Microb. Drug Resist.*, 25(3):336-343. doi: 10.1089/mdr.2017.0404
- Jain, V., Vashisht, R., Yilmaz, G., Bhardwaj, A. 2021. *Pneumonia Pathology*. [Internet, cited Oct 11th 2021] Treasure Island: StatPearls Publishing. Available on: <https://www.ncbi.nlm.nih.gov/books/NBK526116/>

- Jamison, D., Feachem, R., Makgoba, M., Bos, E., Baingana, F., Hofman, K., Rogo, K. 2006. *Disease and mortality in Sub-Saharan Africa*. 2nd ed. Washington, D.C.: World Bank, p.149.
- Justice, N., Le, J. 2021. *Bronchiolitis*. [Internet, cited Oct 28th 2021] Treasure Island: StatPearls Publishing. Available on: <https://www.ncbi.nlm.nih.gov/books/NBK441959/#article-18641.s4>
- Kang, E., Woo, O., Shin, B., Yong, H., Oh, Y., Kim, H. 2009. Bronchiolitis: Classification, Computed Tomographic and Histopathologic Features, and Radiologic Approach. *J. Comput. Assist. Tomogr.*, 33(1):32-41. doi: 10.1097/RCT.0b013e3181635e50
- Kementerian Kesehatan RI, 2018. *HASIL UTAMA RISKESDAS 2018*. Jakarta: KEMENTERIAN KESEHATAN REPUBLIK INDONESIA, p.23.
- Khaertynov, K., Anokhin, V., Rizvanov, A., Davidyuk, Y., Semyenova, D., Lubin, S., Skvortsova, N. 2018. Virulence Factors and Antibiotic Resistance of *Klebsiella pneumoniae* Strains Isolated From Neonates With Sepsis. *Front. Med.*, [online] 5(225):4. doi: 10.3389/fmed.2018.00225
- Khanna, N. and Gerriets, V., 2022. *Beta Lactamase Inhibitors*. [online] PubMed. Available at: <<https://pubmed.ncbi.nlm.nih.gov/32491524/>> [Accessed 22 June 2022].
- Kim, V., Criner, G. 2013. Chronic Bronchitis and Chronic Obstructive Pulmonary Disease. *Am. J. Respir. Crit. Care Med.*, 187(3):228-237. doi: 10.1164/rccm.201210-1843CI
- Lawlor, M., O'Connor, C., Miller, V. 2007. Yersiniabactin Is a Virulence Factor for *Klebsiella pneumoniae* during Pulmonary Infection. *Infect. Immun.*, 75(3):1463-1472. doi: 10.1128/IAI.00372-06
- Liu, Y., Zhang, Y., Zhao, W., Liu, X., Hu, F., Dong, B. 2019. Pharmacotherapy of Lower Respiratory Tract Infections in Elderly—Focused on Antibiotics. *Front. Pharmacol.*, [online] 10:1237. doi: 10.3389/fphar.2019.01237

- Moini, A., Soltani, B., Taghavi Ardakani, A., Moravveji, A., Erami, M., Haji Rezaei, M., Namazi, M. 2015. Multidrug-Resistant *Escherichia coli* and *Klebsiella pneumoniae* Isolated From Patients in Kashan, Iran. *Jundishapur J. Microbiol.*, 8(10):2-3. doi: 10.5812/jjm.27517
- Munita, J., Arias, C. 2016. Mechanisms of Antibiotic Resistance. *Microbiol. Spectr.*, 4(2):3-21. doi: 10.1128/microbiolspec.VMBF-0016-2015
- Naqid, I., Hussein, N., Balatay, A., Saeed, K. and Ahmed, H. 2020. The Antimicrobial Resistance Pattern of *Klebsiella pneumonia* Isolated from the Clinical Specimens in Duhok City in Kurdistan Region of Iraq. *J. Kerman. Univ. Medical Sci.*, 24(2).
- Nirwati, H., Sinanjung, K., Fahrurrisa, F., Wijaya, F., Napitupulu, S., Hati, V., Hakim, M., Meliala, A., Aman, A., Nuryastuti, T. 2019. Biofilm formation and antibiotic resistance of *Klebsiella pneumoniae* isolated from clinical samples in a tertiary care hospital, Klaten, Indonesia. *BMC Proc.*, 13(20):2,3-6. doi: 10.1186/s12919-019-0176-7
- Oktaria, V., Danchin, M., Triasih, R., Soenarto, Y., Bines, J., Ponsonby, A., Clarke, M., Graham, S. 2021. The incidence of acute respiratory infection in Indonesian infants and association with vitamin D deficiency. *PLoS One*, 16(3): e0248722. doi: 10.1371/journal.pone.0248722
- Osagie, R.N., Eyaufe, A.A., Iserhienrhien, O., Okodua, M., Onuabonah, F., Daibo, O.O. 2017. Antibiotic susceptibility profile of *Klebsiella pneumoniae* isolated from sputum samples amongst hospitalized adults in parts of Edo state, south-south. *Merit Res. J. Med. Med. Sci.*, 5(8):378–83.
- Paauw, A., Leverstein-van Hall, M., van Kessel, K., Verhoef, J., Fluit, A. 2009. Yersiniabactin Reduces the Respiratory Oxidative Stress Response of Innate Immune Cells. *PLoS One*, 4(12):e8240. doi: 10.1371/journal.pone.0008240

- Pahal, P., Rajasurya, V., Sharma, S. 2021. *Typical Bacterial Pneumonia*. [Internet, cited Sept 30th 2021] Treasure Island: StatPearls Publishing. Available on: <https://www.ncbi.nlm.nih.gov/books/NBK534295/>
- Paterson, D. and Bonomo, R. 2005. Extended-Spectrum β -Lactamases: a Clinical Update. *Clin. Microbiol. Rev.*, 18(4):657-686. doi: 10.1128/CMR.18.4.657-686.2005
- Patilaya, P., Husori, D. and Marhafanny, L. 2019. Susceptibility of Klebsiella Pneumoniae Isolated from Pus Specimens of Post-Surgery Patients in Medan, Indonesia to Selected Antibiotics. *Open Access Macedonian J. Med. Sci.*, 7(22), pp.3861-3864.
- Peterson, E. and Kaur, P. 2018. Antibiotic Resistance Mechanisms in Bacteria: Relationships Between Resistance Determinants of Antibiotic Producers, Environmental Bacteria, and Clinical Pathogens. *Front. Microbiol.*, 9:2928. doi: 10.3389/fmicb.2018.02928
- Podschun, R. and Ullmann, U. 1998. *Klebsiella spp.* as Nosocomial Pathogens: Epidemiology, Taxonomy, Typing Methods, and Pathogenicity Factors. *Clin. Microbiol. Rev.*, 11(4):589-603. doi: 10.1128/CMR.11.4.589
- Purushothama V, D. and Liu, C. 1996. *Medical Microbiology*. 4th ed. Galveston: University of Texas Medical Branch at Galveston, p.Chapter 93.
- Rechenchoski, D., Dambrozio, A., Vivan, A., Schuroff, P., Burgos, T., Pelisson, M., Perugini, M., Vespero, E. 2017. Antimicrobial activity evaluation and comparison of methods of susceptibility for *Klebsiella pneumoniae carbapenemase* (KPC)-producing *Enterobacter spp.* isolates. *Braz. J. Microbiol.*, 48(3):509-514. doi: 10.1016/j.bjm.2017.01.008
- Russo, T., Olson, R., MacDonald, U., Beanan, J., Davidson, B. 2015. Aerobactin, but Not Yersiniabactin, Salmochelin, or Enterobactin, Enables the Growth/Survival of Hypervirulent (Hypermucoviscous) *Klebsiella pneumoniae* Ex Vivo and In Vivo. *Infect. Immun.*, 83(8):3325-3333. doi: 10.1128/IAI.00430-15

- Sattar, S., Sharma, S. 2021. *Bacterial Pneumonia*. [Internet, cited Oct 12th 2021] Treasure Island: StatPearls Publishing. Available on: <https://www.ncbi.nlm.nih.gov/books/NBK513321/>
- Schroll, C., Barken, K., Krogfelt, K., Struve, C. 2010. Role of type 1 and type 3 fimbriae in *Klebsiella pneumoniae* biofilm formation. *BMC Microbiol.*, 10(179):1-2. doi: 10.1186/1471-2180-10-179
- Seni, J., Sweya, E., Mabewa, A., Mshana, S., Gilyoma, J. 2016. Comparison of antimicrobial resistance patterns of ESBL and non ESBL bacterial isolates among patients with secondary peritonitis at Bugando Medical Centre, Mwanza – Tanzania. *BMC Emerg. Med.*, 16(41):4. doi: 10.1186/s12873-016-0106-1
- Sinanjung, K., Aman, A., Nirwati, H. 2020. Extended spectrum beta lactamase (ESBL)-producing *Klebsiella pneumoniae* clinical isolates and its susceptibility pattern to antibiotics at Dr. Soeradji Tirtonegoro General Hospital Klaten, Central Java. *J. Med. Sci. (Berkala Ilmu Kedokteran)*, 52(01).
- Singh, A., Avula, A., Zahn, E. 2021. *Acute Bronchitis*. [Internet, cited Nov 4th 2021] Treasure Island: StatPearls Publishing. Available on: <https://www.ncbi.nlm.nih.gov/books/NBK448067/>
- Sulistiyawati, S., Sofiana, L., Khairul Amala, S., Rokhmayanti, R., Dwi Astut, F., Nurfita, D. 2020. Pneumonia a neglected disease: A mixed-method study on the case-finding program in Indonesia. *AIMS Public Health*, 7(1):81-91. doi: 10.3934/publichealth.2020008
- Unicef. 2019. One child dies of pneumonia every 39 seconds, agencies warn. [Internet, cited Sept 24th 2021] London: the United Nations International Children's Emergency Fund. Available on: <https://www.unicef.org/indonesia/press-releases/one-child-dies-pneumonia-every-39-seconds-agencies-warn>

- Varghese, A., George, S., Gopalakrishnan, R. and Mathew, A., 2016. Antibiotic Susceptibility Pattern of *Klebsiella pneumoniae* Isolated from Cases of Urinary Tract Infection in a Tertiary Care Setup. *J. Evol. Med. Dent. Sci.*, 5(29):1470-1474. doi: 10.14260/jemds/2016/346
- Wang, G., Zhao, G., Chao, X., Xie, L., Wang, H. 2020. The Characteristic of Virulence, Biofilm and Antibiotic Resistance of *Klebsiella pneumoniae*. *Int. J. Environ. Res. Public Health*, 17(17):6278. doi: 10.3390/ijerph17176278
- Wardlaw, T., White Johansson, E., Hodge, M. 2006. *Pneumonia: the forgotten killer of children*. New York: United Nations Publications, p.5.
- Weyand, C., Goronzy, J. 2016. Aging of the Immune System. Mechanisms and Therapeutic Targets. *Ann. Am. Thorac. Soc.*, 13(Supplement_5):S422-S428. doi: 10.1513/AnnalsATS.201602-095AW
- Woodfork, K. 2007. Bronchitis. *xPharm: The Comprehensive Pharmacology Reference*. Elsevier, pp.1-13. doi: 10.1016/B978-008055232-3.63026-0
- World Health Organization: WHO. 2020. *The top 10 causes of death*. [Internet, cited Nov 27th 2021] Geneva: World Health Organization. Available on: <https://www.who.int/news-room/fact-sheets/detail/the-top-10-causes-of-death>
- Zhou, M., Wang, Y., Liu, C., Kudinha, T., Liu, X., Luo, Y., Yang, Q., Sun, H., Hu, J., Xu, Y. 2018. Comparison of five commonly used automated susceptibility testing methods for accuracy in the China Antimicrobial Resistance Surveillance System (CARSS) hospitals. *Infect. Drug Resist.*, 11:1347-1358. doi: 10.2147/IDR.S166790