



DAFTAR PUSTAKA

- Afshar, M. F., Zakaria, Z., Cheng, C. H., & Ahmad, N. I. (2023). Prevalence and multidrug-resistant profile of methicillin-resistant *Staphylococcus aureus* and methicillin-resistant *Staphylococcus pseudintermedius* in dogs, cats, and pet owners in Malaysia. *Veterinary World*, 16, 536–545. <https://doi.org/10.14202/vetworld.2023.536-545>
- Algammal, A. M., Hetta, H. F., Elkelish, A., Alkhalifah, D. H. H., Hozzein, W. N., Batiha, G. E.-S., El Nahhas, N., & Mabrok, M. A. (2020). Methicillin-Resistant *Staphylococcus aureus* (MRSA): One Health Perspective Approach to the Bacterium Epidemiology, Virulence Factors, Antibiotic-Resistance, and Zoonotic Impact. *Infection and Drug Resistance*, 13, 3255–3265. <https://doi.org/10.2147/IDR.S272733>
- Ambade, S. S., Gupta, V. K., Bhole, R. P., Khedekar, P. B., & Chikhale, R. V. (2023). A Review on Five and Six-Membered Heterocyclic Compounds Targeting the Penicillin-Binding Protein 2 (PBP2A) of Methicillin-Resistant *Staphylococcus aureus* (MRSA). *Molecules*, 28(7008), 1–53. <https://doi.org/10.3390/molecules28207008>
- Becker, A., Forster, D. H., & Kniehl, E. (2002). Oxacillin Resistance Screening Agar Base for Detection of Methicillin-Resistant *Staphylococcus aureus*. *Journal of Clinical Microbiology*, 40(11), 4400–4401.
- Carroll, K. C., Hobden, J. A., Miller, S., Morse, S. A., Mietzner, T. A., Detrick, B., Mitchell, T. G., McKerrow, J. H., & Sakanari, J. A. (2016). *Jawetz Melnick & Adelberg's Medical Microbiology*, 27th Edition (27 ed.). New York: McGraw-Hill Education.
- Chai, M. H., Sukiman, M. Z., Liew, Y. W., Shapawi, M. S., Roslan, F. S., Hashim, S. N., Mohamad, N. M., Ariffin, S. M. Z., & Ghazali, M. F. (2021). Detection, molecular characterization, and antibiogram of multi-drug resistant and methicillin-resistant *Staphylococcus aureus* (MRSA) isolated from pets and pet owners in Malaysia. *Iranian Journal of Veterinary Research*, 22(4), 277–287. <https://doi.org/10.22099/ijvr.2021.39586.5752>
- Fischetti, V. A., Novick, R. P., Ferretti, J. J., Portnoy, D. A., Braunstein, M., & Rood, J. (2019). *Gram-Positive Pathogens* (Third edition). New York: McGraw-Hill Education.
- Fitrandha, M., Salasia, S. I. O., Sianipar, O., Dewananda, D. A., Arjana, A. Z., Aziz, F., Wasissa, M., Lestari, F. B., & Santosa, C. M. (2023). Methicillin-resistant *Staphylococcus aureus* isolates derived from



humans and animals in Yogyakarta, Indonesia. *Veterinary World*, 16(1), 239–245. <https://doi.org/10.14202/vetworld.2023.239-245>

Khairullah, A. R., Rehman, S., Sudjarwo, S. A., Effendi, M. H., Ramandinianto, S. C., Gololodo, M. A., Widodo, A., Riwu, K. H. P., & Kurniawati, D. A. (2022). Detection of mecA gene and methicillin-resistant *Staphylococcus aureus* (MRSA) isolated from milk and risk factors from farms in Probolinggo, Indonesia. *F1000Research*, 11, 722. <https://doi.org/10.12688/f1000research.122225.1>

Lade, H., & Kim, J.-S. (2023). Citation: Lade, H Molecular Determinants of β-Lactam Resistance in Methicillin-Resistant *Staphylococcus aureus* (MRSA): An Updated Review. *Antibiotics*, 12(1362), 1–18. <https://doi.org/10.3390/antibiotics12091362>

Leboffe, M. J., & Pierce, B. E. (2011). *A Photographic Atlas for the Microbiology Laboratory* (4th Edition). United States of America: Morton Publishing Company. www.morton-pub.com

Lim, W. W., Wu, P., Bond, H. S., Wong, J. Y., Ni, K., Seto, W. H., Jit, M., & Cowling, B. J. (2019). Determinants of methicillin-resistant *Staphylococcus aureus* (MRSA) prevalence in the Asia-Pacific region: A systematic review and meta-analysis. *Journal of Global Antimicrobial Resistance*, 16, 17–27. <https://doi.org/10.1016/J.JGAR.2018.08.014>

Lynch, S. A., & Helbig, K. J. (2021). The Complex Diseases of *Staphylococcus pseudintermedius* in Canines: Where to Next? *Veterinary Sciences*, 8(11). <https://doi.org/10.3390/vetsci8010011>

Maheaswari, R., Kshirsagar, J. T., & Lavanya, N. (2016). Polymerase chain reaction: A molecular diagnostic tool in periodontology. *Journal of Indian Society of Periodontology*, 20(2), 128–135.

Markey, B., Leonard, F., Archambault, M., Cullinane, A., & Maguire, D. (2013). *Clinical Veterinary Microbiology* (2nd Edition). New York: Elsevier Health Sciences.

Martineau, F., Picard, F. J., Grenier, L., Roy, P. H., Ouellette, M., Bergeron, M. G., & Trial, the E. (2000). Multiplex PCR assays for the detection of clinically relevant antibiotic resistance genes in staphylococci isolated from patients infected after cardiac surgery. *Journal of Antimicrobial Chemotherapy*, 46(4), 527–534. <https://doi.org/10.1093/jac/46.4.527>

McVey, D. S., Kennedy, M., Chengappa, M. M., & Wilkes, R. (2022). *Veterinary Microbiology* (Fourth Edition). Hoboken: Wiley Blackwell.



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DETEKSI METHICILLIN RESISTANT *Staphylococcus aureus* (MRSA) DAN METHICILLIN RESISTANT *Staphylococcus pseudintermedius* (MRSP) ISOLAT ASAL PASIEN KUCING DAN ANJING DI "drh. NUGROHO ANIMAL CENTER SEMARANG"

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Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

- Mohammed, O., Ibrahim, A., Eldin Bilal, N., Osman, O. F., & Magzoub, A. (2017). Assessment of methicillin resistant *Staphylococcus Aureus* detection methods: analytical comparative study. *Pan African Medical Journal*, 1–7. <https://doi.org/10.11604/pamj.2017.27.281.9016>
- Murray, C. J., Ikuta, K. S., Sharara, F., Swetschinski, L., Robles Aguilar, G., Gray, A., Han, C., Bisignano, C., Rao, P., Wool, E., Johnson, S. C., Browne, A. J., Chipeta, M. G., Fell, F., Hackett, S., Haines-Woodhouse, G., Kashef Hamadani, B. H., Kumaran, E. A. P., McManigal, B., ... Naghavi, M. (2022). Global burden of bacterial antimicrobial resistance in 2019: a systematic analysis. *The Lancet*, 399(10325), 629–655. [https://doi.org/10.1016/S0140-6736\(21\)02724-0](https://doi.org/10.1016/S0140-6736(21)02724-0)
- Nakaminami, H., Okamura, Y., Tanaka, S., Wajima, T., Murayama, N., & Noguchi, N. (2021). Prevalence of antimicrobial-resistant staphylococci in nares and affected sites of pet dogs with superficial pyoderma. *Journal of Veterinary Medical Science*, 83(2), 214–219. <https://doi.org/10.1292/jvms.20-0439>
- Oriano, M., Terranova, L., Teri, A., Sottotetti, S., Ruggiero, L., Tafuro, C., Marchisio, P., Gramegna, A., Amati, F., Nava, F., Franceschi, E., Cariani, L., Blasi, F., & Aliberti, S. (2019). Comparison of different conditions for DNA extraction in sputum-a pilot study. *Multidisciplinary Respiratory Medicine*, 14(6), 1–8. <https://doi.org/10.1186/s40248-018-0166-z>
- Pimenta, L. K. L., Rodrigues, C. A., Rodrigues, A., Filho, G., Coelho, C. J., Goes, V., Estrela, M., De Souza, P., Gomes Avelino, M. A., Daniel, J., Vieira, G., & Carneiro, L. (2023). *Staphylococcus* spp. Causatives of Infections and Carrier of blaZ, femA, and mecA Genes Associated with Resistance. *Antibiotics*, 12(67), 1–13. <https://doi.org/10.3390/antibiotics12040671>
- Quinn, P. J., Markey, B. K., Leonard, F. C., FitzPatrick, E. S., Fanning, S., & Hartigan, P. J. (2011). *Quinn Veterinary Microbiology and Microbial Disease* (Second Edition). Chichester: Wiley Blackwell.
- Rocchetti, T. T., Martins, K. B., Martins, P. Y. F., Oliveira, R. A. de, Mondelli, A. L., Fortaleza, C. M. C. B., & Cunha, M. de L. R. de S. da. (2018). Detection of the *mecA* gene and identification of *Staphylococcus* directly from blood culture bottles by multiplex polymerase chain reaction. *Brazilian Journal of Infectious Diseases*, 22(2), 99–105. <https://doi.org/10.1016/j.bjid.2018.02.006>
- Santosa, C. M., Rukmi, N. P., Lestari, F. B., Wasissa, M., Dewananda, D. A., & Salasia, S. I. O. (2021). Susceptibility Test of *Staphylococcus aureus* Isolated from Cow Milk, Goat Milk, and Dairy Farm Workers Against



Various Antibiotics. *Proceedings of the 10th International Seminar and 12th Congress of Indonesian Society for Microbiology (ISISM 2019)*, 115–118. <https://doi.org/10.2991/absr.k.210810.022>

Santosaningsih, D., Santoso, S., Setijowati, N., Rasyid, H. A., Budayanti, N. S., Suata, K., Widhyatmoko, D. B., Purwono, P. B., Kuntaman, K., Damayanti, D., Prakoeswa, C. R. S., Laurens, M., Van Nierop, J. W. I., Nanninga, G. L., Oudenes, N., De Regt, M., Snijders, S. V., Verbrugh, H. A., Ette, J., & Severin, A. (2018). *Prevalence and characterisation of *Staphylococcus aureus* causing community-acquired skin and soft tissue infections on Java and Bali, Indonesia*. <https://doi.org/10.1111/tmi.13000>

Savini, V. (2018). *Pet-to-Man Travelling Staphylococci*. London: Elsevier.

Seyedmonir, E., Yilmaz, F., & Iggen, B. (2015). *mecA Gene Dissemination Among Staphylococcal and Non-staphylococcal Isolates Shed in Surface Waters*. *Bulletin of Environmental Contamination and Toxicology*, 95, 131–138. <https://doi.org/10.1007/s00128-015-1510-z>

Sharma, S., & Sharma, K. (2022). *Phenotypic_methods_for_MRSA_detections*. Lulu Publication.

Stadler, M., & Dersch, P. (2016). *Current Topics in Microbiology and Immunology How to Overcome the Antibiotic Crisis Facts, Challenges, Technologies and Future Perspectives*. Switzerland: Springer International Publishing. <http://www.springer.com/series/82>

Strommenger, B., Kettlitz, C., Werner, G., & Witte, W. (2003). Multiplex PCR Assay for Simultaneous Detection of Nine Clinically Relevant Antibiotic Resistance Genes in *Staphylococcus aureus*. *Journal of Clinical Microbiology*, 41(9), 4089–4094. <https://doi.org/10.1128/jcm.41.9.4089-4094.2003>

Sykes, J. E. (2022). *Greene's Infectious Diseases of the Dog and Cat*. Elsevier Health Sciences.

Tabatabaei, S., Najafifar, A., Askari Badouei, M., Zahraei Salehi, T., Ashrafi Tamai, I., Khaksar, E., Abbassi, M. S., & Ghazisaeedi, F. (2019). Genetic characterisation of methicillin-resistant *Staphylococcus aureus* and *Staphylococcus pseudintermedius* in pets and veterinary personnel in Iran: new insights into emerging methicillin-resistant *S. pseudintermedius* (MRSP). *Journal of Global Antimicrobial Resistance*, 16, 6–10. <https://doi.org/10.1016/J.JGAR.2018.08.022>

Thomson, P., García, P., Miles, J., Isla, D., Yáñez, C., Santibáñez, R., Núñez, A., Flores-Yáñez, C., Del Río, C., & Cuadra, F. (2022). Isolation and Identification of *Staphylococcus* Species Obtained from Healthy



Companion Animals and Humans. *Veterinary Sciences*, 9(2).
<https://doi.org/10.3390/vetsci9020079>

Todar, K. (2006). *Todar's online textbook of bacteriology*. Madison: University of Wisconsin-Madison Department of Bacteriology.

Wegener, A., Broens, E. M., Zomer, A., Spaninks, M., Wagenaar, J. A., & Duim, B. (2018). Comparative genomics of phenotypic antimicrobial resistances in methicillin-resistant *Staphylococcus pseudintermedius* of canine origin. *Veterinary Microbiology*, 225, 125–131.
<https://doi.org/10.1016/J.VETMIC.2018.09.013>

Widianingrum, D. C., Windria, S., & Salasia, S. I. O. (2016). Antibiotic resistance and methicillin resistant *Staphylococcus aureus* isolated from bovine, crossbred etawa goat and human. *Asian Journal of Animal and Veterinary Advances*, 11(2), 122–129.
<https://doi.org/10.3923/ajava.2016.122.129>

Wiebe, Valerie. J. (2015). *Drug Therapy for Infectious Diseases of the Dog and Cat*. Iowa: Wiley Blackwell.

Wijayanti, A. D., Rosetyadewi, A. W., Pratama, A. M., Septana, A. I., Setyawan, D. C. B., & Fitriana, I. (2023). A recent update on the use of antimicrobials for animal health in Yogyakarta, Indonesia. *International Journal of One Health*, 9(2), 67–73.
<https://doi.org/10.14202/IJOH.2023.67-73>

Windria, S., Widianingrum, D. C., & Salasia, S. I. O. (2016). Identification of *staphylococcus aureus* and coagulase negative staphylococci isolates from mastitis milk of etawa crossbred goat. *Research Journal of Microbiology*, 11(1), 11–19. <https://doi.org/10.3923/jm.2016.11.19>

Zhan, X. Y., & Zhu, Q. Y. (2018). Evolution of methicillin-resistant *Staphylococcus aureus*: Evidence of positive selection in a penicillin-binding protein (PBP) 2a coding gene *mecA*. *Infection, Genetics and Evolution*, 59, 16–22. <https://doi.org/10.1016/j.meegid.2018.01.018>

Zhang, H., Yang, F., Li, X. P., Luo, J. Y., Wang, L., Zhou, Y. L., Yang, Y., WANG, X. R., & Li, H. S. (2020). Detection of antimicrobial resistance and virulence-related genes in *Streptococcus uberis* and *Streptococcus parauberis* isolated from clinical bovine mastitis cases in northwestern China. *Journal of Integrative Agriculture*, 19(11), 2784–2791.
[https://doi.org/10.1016/S2095-3119\(20\)63185-9](https://doi.org/10.1016/S2095-3119(20)63185-9)