

DAFTAR PUSTAKA

- Alenkaer, L.K., Pedersen, L., Szecsi, P.B., Bjerrum, P.J. 2021. Evaluation of the sysmex UF-5000 fluorescence flow cytometer as a screening platform for ruling out urinary tract infections in elderly patients presenting at the Emergency Department. *Scand J Clin Lab Invest*, 81(5):379–384.
- Alhazmi, A.H., Alameer, K.M., Abuageelah, B.M., Alharbi, R.H., Mobarki, M., Musawi, S., Haddad, M., Matabi, A., Dhayhi, N. 2023. Epidemiology and Antimicrobial Resistance Patterns of Urinary Tract Infections: A Cross-Sectional Study from Southwestern Saudi Arabia. *Medicina (B Aires)*, 59(8):1–11.
- Al-Wazni, Z.H., Raheem, S.A., Zayed, F.H., Faraj, H.A., Abdulzahra, M.A. 2024. Risk Factors and Antibiotic Resistance Spread Among Patients with Urinary Tract Infections in Kerbala, Iraq. *Gomal J Med Sci*, 22(2):158–163.
- Anam, B., Mustafa, M., Anjum, I. 2023. Empiric therapy for community acquired urinary tract infection in an era of increasing antimicrobial resistance. *IP Int J Med Microbiol Trop Dis*, 9(4):267–274.
- Aricò, M.O., Valletta, E., Caselli, D. 2023. Appropriate Use of Antibiotic and Principles of Antimicrobial Stewardship in Children. *Children*, 10(4).
- Asutake, Y.Y., Iguchi, M.H., Da, S.O., Amura, Y.T., Himadu, T.S., Obayashi, H.K., Anaoka, E.H. 2013. Comparisons of the Bact Scattergram Pattern by Fully Automated Integrated Urine Analyzer UX-2000 and Microscopic Examination Results Using Gram Stain. *Sysmex J Int*, 23(1):1–10.
- Atsushi Nakayama, Hiroko Tsuburai, Hidemine Ebina, Fumiko Kino. 2018. Outline and Features of UF-5000, Fully Automated Urine Particle Analyzer. *Sysmex J Int*, 28(1):1–21.
- Chen, Y., Zhang, Z., Diao, Y., Wang, W., Zhu, Y., Li, J., Wang, G., Zhao, Y., Lin, Z., Wu, Y., Jing, J. 2023. Combination of UC-3500 and UF-5000 as a quick and effective method to exclude bacterial urinary tract infection. *J Infect Chemother*, 29(7):667–672.
- Choe, H.S., Lee, S.J., Cho, Y.H., Çek, M., Tandoğdu, Z., Wagenlehner, F., Bjerklund-Johansen, T.E., Naber, K. 2018. Aspects of urinary tract infections and antimicrobial resistance in hospitalized urology patients in Asia: 10-Year results of the Global Prevalence Study of Infections in Urology (GPIU). *J Infect Chemother*, 24(4):278–283.
- Christensen, R.L., Creekmore, F.M., Strong, M.B., Lugo, R.A. 2007. The predictability of urinary pathogens based on the urinalysis nitrite test in hospitalized patients. *Hosp Pharm*, 42(1):52–56.
- Christy, P., Sidjabat, H.E., Lumban Toruan, A.A., Moses, E.J., Mohd Yussof, N., Puspitasari, Y., Fuadi, M.R., Aryati, Marpaung, F.R. 2022. Comparison of Laboratory Diagnosis of Urinary Tract Infections Based on Leukocyte and Bacterial Parameters Using Standardized Microscopic and Flow Cytometry Methods. *Int J Nephrol*, 2022.

Darraj, M.A. 2023. The Appropriateness of Empirical Antimicrobial Treatment of Uncomplicated Urinary Tract Infection in Adult Female Patients in Jazan Region, Saudi Arabia. *Clin Pract*, 13(4):743–752.

Demir, C., Metin, S. 2023. Microorganisms grown in urine cultures and antimicrobial resistance patterns: A randomised retrospective analysis from a tertiary hospital. *J Infect Dev Ctries*, 17(3):337–344.

Enko, D., Stelzer, I., Böckl, M., Derler, B., Schnedl, W.J., Anderssohn, P., Meinitzer, A., Herrmann, M. 2020. Comparison of the diagnostic performance of two automated urine sediment analyzers with manual phase-contrast microscopy. *Clin Chem Lab Med*, 58(2):268–273.

Flores-mireles, A.L., Walker, J.N., Caparon, M., Hultgren, S.J. 2015. Urinary tract infections: epidemiology, mechanisms of infection and treatment options. *Nat Rev Microbiol*, 13:34.

Foxman, B. 2014. Urinary tract infection syndromes. Occurrence, recurrence, bacteriology, risk factors, and disease burden. *Infect Dis Clin N Am*, 28(1):1–13.

García-Coca, M., Gadea, I., Esteban, J. 2017. Relationship between conventional culture and flow cytometry for the diagnosis of urinary tract infection. *J Microbiol Methods*, 137:14–18.

Geerlings, S.E. 2016. Clinical presentations and epidemiology of urinary tract infections. *Microbiol Spectr*, 4(5).

Gessoni, G., Saccani, G., Valverde, S., Manoni, F., Caputo, M. 2015. Does flow cytometry have a role in preliminary differentiation between urinary tract infections sustained by gram positive and gram-negative bacteria? An Italian polycentric study. *Clin Chim Acta*, 440:152–156.

Harding, G.K.M., Ronald, A.R. 1994. The management of urinary infections; what have we learned in the past decade? *Int J Antimicrob Agents*, 4(2):83–88.

Hsueh, P.R., Hoban, D.J., Carmeli, Y., Chen, S.Y., Desikan, S., Alejandria, M., Ko, W.C., Binh, T.Q. 2011. Consensus review of the epidemiology and appropriate antimicrobial therapy of complicated urinary tract infections in Asia-Pacific region. *J infect*, 63(2):114–123.

Huda, N., Nabonee, M.A., Yusuf, M.A., Hossain, M., Sabiha, K. 2023. Diagnostic Value of Dipstick Test (Leukocyte Esterase and Nitrite) in Diagnosis of Urinary Tract Infection. *Bangladesh J Med Microbiol*, 17(2):55–59.

Ince, F.D., Ellidağ, H.Y., Koseoğlu, M., Şimşek, N., Yalçın, H., Zengin, M.O. 2016. The comparison of automated urine analyzers with manual microscopic examination for urinalysis automated urine analyzers and manual urinalysis. *Pract Lab Med*, 5:14–20.

Ben J, B., David S, S. 1997. Urinary tract infections. An overview. *Am J Med Sci*, 314:245–249.

Kaur, Rajanbir, Kaur, Rajinder. 2021. Symptoms, risk factors, diagnosis and treatment of urinary tract infections. *Postgrad Med J*, 97(1154):803–812.

Kim, C.J. 2022. Current Status of Antibiotic Stewardship and the Role of Biomarkers in Antibiotic Stewardship Programs. *Infect Chemother*, 54(4):674–698.

Kim, S.Y., Park, Y., Kim, H., Kim, J., Koo, S.H., Kwon, G.C. 2018. Rapid screening of urinary tract infection and discrimination of gram-positive and gram-negative bacteria by automated flow cytometric analysis using sysmex UF-5000. *J Clin Microbiol*, 56(8).

Levison, M.E., Kaye, D. 2013. Treatment of complicated urinary tract infections with an emphasis on drug-resistant gram-negative uropathogens. *Curr Infect Dis Rep*, 15(2):109–115.

Liu, P., Ban, C., Wang, J., Zeng, Q., Chen, M., Wang, L., Lv, X. 2024. Enhancing clinical decision-making: Sysmex UF-5000 as a screening tool for bacterial urinary tract infection in children. *PLoS One*, 19(6 June):1–11.

Lu, W., Li, Z., Zhang, T., Li, Y., Zhu, H., Zhao, Y., Lei, K. 2024. Performance of UF-5000 in rapidly screening out urinary tract infection, predicting Gram-negative bacteria infection Wei. *Microbiol Spectr*, 12(12):1–9.

McHugh, M.L. 2012. Lessons in biostatistics interrater reliability: the kappa statistic. *Biochem Med*, 22(3):276–282.

McKinnon, K.M. 2018. Flow cytometry: An overview. *Curr Protoc Immunol*, 2018:5.1.1-5.1.11.

McLellan, L., Hunstad, D. 2016. Urinary tract infection: pathogenesis and complications. *Trends Mol Med.*, 22(11):946–957.

Medina, M., Castillo-Pino, E. 2019. An introduction to the epidemiology and burden of urinary tract infections. *Ther Adv Urol*, 11:3–7.

Melekos, M.D., Naber, K.G. 2000. Complicated urinary tract infections. *Int J Antimicrob Agents*, 15:247–256.

Moreland, R.B., Brubaker, L., Wolfe, A.J. 2025. Polymicrobial urine cultures: reconciling contamination with the urobiome while recognizing the pathogens. *Front. Cell. Infect. Microbiol.*, 15(May):1–13.

Najar, M.S., Saldanha, C.L., Banday, K.A. 2009. Approach to urinary tract infections. *Indian J Nephrol*, 19(4):129–139.

Nava, M.O., Mirzaei, N., Ebrahimian, V., Molaei, M., Tohidnia, F., Pursafar, M. 2012. Diagnostic value of leukocyte esterase and nitrite tests for the detection of urinary tractinfection. *Biomed. & Pharmacol. J.*, 5(2):257–260.

Nielubowicz, G.R., Mobley, H.L.T. 2010. Host-pathogen interactions in urinary tract infection. *Nat Rev Urol*, 7(8):430–441.

Noviyani, R., Duong, K.N.C., Ngo, N.T.N., Kularatna, S., Widatama, A., Srinadi, I.G. 2024. Empirical antibiotics versus definitive antibiotics for Sepsis patients in Indonesia: A cost-effectiveness analysis. *J Appl Pharm Sci*, 14(10):53–59.

Opatowski, M., Brun-buisson, C., Touat, M., Salomon, J., Guillemot, D., Tuppin, P., Watier, L. 2021. Antibiotic prescriptions and risk factors for antimicrobial resistance in patients hospitalized with urinary tract infection: a matched case-control study using the French health insurance database (SNDS). *BMC Infect Dis*, 21(571):1–12.

Oyaert, M., Delanghe, J. 2018. Progress in automated urinalysis. *Ann Lab Med*, 39(1):15–22.

Öztürk, R., Murt, A. 2020. Epidemiology of urological infections: a global burden. *World J Urol*, 38(11):2669–2679.

Paterson, D.L., Rice, L.B. 2003. Empirical antibiotic choice for the seriously ill patient: Are minimization of selection of resistant organisms and maximization of individual outcome mutually exclusive? *Clin Infect Dis*, 36(8):1006–1012.

Pietrucha-Dilanchian, P., Hooton, T.M. 2016. Diagnosis, treatment, and prevention of urinary tract infection. *Microbiol Spectr*, 41–68.

Prastiyanto, M.E., Iswara, A., Khairunnisa, A., Sofyantoro, F., Siregar, A.R., Mafiroh, W.U. 2024. Prevalence and antimicrobial resistance profiles of multidrug-resistant bacterial isolates from urinary tract infections in Indonesian patients: A cross-sectional study. *Clin Infect Pract*, 22:100359.

Rafalskiy, V., Pushkar, D., Yakovlev, S., Epstein, O., Putilovskiy, M., Tarasov, S., Glazunov, A. 2020. Distribution and antibiotic resistance profile of key Gram-negative bacteria that cause community-onset urinary tract infections in the Russian Federation: RESOURCE multicentre surveillance 2017 study. *J Glob Antimicrob Resist*, 21:188–194.

Ramzan, M., Bakhsh, S., Salam, A. 2004. Risk Factors in Urinary Tract Infection. *Gomal J Med Sci*, 2(1):1–4.

Ren, C., Wu, J., Jin, M., Wang, X., Cao, H. 2018. Rapidly discriminating culture-negative urine specimens from patients with suspected urinary tract infections by UF-5000. *Bioanalysis*, 10(22):1833–1840.

Roberts, K.B. 2015. The diagnosis of UTI: Liquid gold and the problem of gold standards. *Pediatrics*, 135(6):1126–1127.

De Rosa, R., Grosso, S., Lorenzi, G., Bruschetta, G., Camporese, A. 2018. Evaluation of the new Sysmex UF-5000 fluorescence flow cytometry analyser for ruling out bacterial urinary tract infection and for prediction of Gram-negative bacteria in urine cultures. *Clinica Chimica Acta*, 484(May):171–178.

Samuel, L.P., Balada-Illasat, J., Harrington, A. 2015. Multicenter Assessment of Gram Stain Error Rates. *J Clin Microbiol*, 54(6):1442–1447.

Sheerin, N.S. 2011. Urinary tract infection. *Medicine*, 39(7):384–389.

- Silhavy, T.J., Kahne, D., Walker, S. 2010. The Bacterial Cell Envelope. *Cold Spring Harb Perspect Biol*, 2:1–16.
- Smelov, V., Naber, K., Bjerklund Johansen, T.E. 2016. Improved Classification of Urinary Tract Infection: Future Considerations. *Eur Urol, Suppl*, 15(4):71–80.
- Spellberg, B. 2014. The future of antibiotics. *Crit Care*, 18(3):1–7.
- Spellberg, B., Srinivasan, A., Chambers, H.F. 2016. New societal approaches to empowering antibiotic stewardship. *JAMA*, 315(12):1229–1230.
- Storme, O., Saucedo, J.T., Garcia-Mora, A., Dehesa-Dávila, M., Naber, K.G. 2019. Risk factors and predisposing conditions for urinary tract infection. *Ther Adv Urol*, 11:19–28.
- Wagenlehner, F.M.E., Naber, K.G. 2006. Treatment of bacterial urinary tract infections: Presence and future. *Eur Urol*, 49(2):235–244.
- Walsh, C., Collens, T. 2020. Pathophysiology of urinary tract infections. *Surgery*, 38(4):191–196.
- Wang, H., Han, F.F., Wen, J.X., Yan, Z., Han, Y.Q., Hu, Z. De, Zheng, W.Q. 2023. Accuracy of the Sysmex UF-5000 analyzer for urinary tract infection screening and pathogen classification. *PLoS One*, 18(2 February):1–8.
- Werneburg, G.T., Rhoads, D.D. 2022. Diagnostic stewardship for urinary tract infection: A snapshot of the expert guidance. *Cleve Clin J Med*, 89(10):581–587.
- Yashir, Muhammad. 2017. Variasi Bakteri Pada Penderita Infeksi Saluran Kemih. *J. Media Kesehat.*, 12(2):102–109.
- Zeng, Z., Zhan, J., Zhang, K., Chen, H., Cheng, S. 2022. Global, regional, and national burden of urinary tract infections from 1990 to 2019: an analysis of the global burden of disease study 2019. *World J Urol*, 40(3):755–763.
- Zilberberg, M.D., Nathanson, B.H., Sulham, K., Shorr, A.F. 2022. Descriptive epidemiology and outcomes of emergency department visits with complicated urinary tract infections in the United States, 2016–2018. *JACEP Open*, 3(2):1–7.