

Literature review details

Narrative review studies [1-3]

Non-prediction studies [4-12]

Diagnostic prediction studies [13-19]

Prognostic factor studies [20-28]

Predicting non-CA-UTIs [13-19]

Specialized population [29-31]

References

1. Stalenhoef JE, van Dissel JT, van Nieuwkoop C. Febrile urinary tract infection in the emergency room. *Current opinion in infectious diseases* **2015**; 28(1): 106-11.
2. Stein R, Dogan HS, Hoebeke P, et al. Urinary tract infections in children: EAU/ESPU guidelines. *European urology* **2015**; 67(3): 546-58.
3. Werneburg GT. Catheter-Associated Urinary Tract Infections: Current Challenges and Future Prospects. *Research and reports in urology* **2022**; 14: 109-33.
4. Carson C, Naber KG. Role of fluoroquinolones in the treatment of serious bacterial urinary tract infections. *Drugs* **2004**; 64(12): 1359-73.
5. Gardner A, Mitchell B, Beckingham W, Fasugba O. A point prevalence cross-sectional study of healthcare-associated urinary tract infections in six Australian hospitals. *BMJ open* **2014**; 4(7): e005099.
6. Kaplan JA, Carter JT. Near-perfect compliance with SCIP Inf-9 had no effect on catheter utilization or urinary tract infections at an academic medical center. *American journal of surgery* **2018**; 215(1): 23-7.
7. Nielsen HV, Guiton PS, Kline KA, et al. The metal ion-dependent adhesion site motif of the *Enterococcus faecalis* EbpA pilin mediates pilus function in catheter-associated urinary tract infection. *mBio* **2012**; 3(4): e00177-12.
8. Parthasarathy S, Jordan LD, Schwarting N, et al. Involvement of Chromosomally Encoded Homologs of the RRNPP Protein Family in *Enterococcus faecalis* Biofilm Formation and Urinary Tract Infection Pathogenesis. *Journal of bacteriology* **2020**; 202(17).
9. Pieras Ayala E, Palou Redorta J, Bayarri JS, et al. [Bacteriologic assessment of the lower urinary tract and genital area in patients with recurrent urinary tract infections]. *Archivos espanoles de urologia* **2000**; 53(4): 313-20.

10. Schiøtz HA. [Postoperative bacteriuria and urinary tract infections in gynecological patients]. *Tidsskrift for den Norske lægeforening : tidsskrift for praktisk medicin, ny raekke* **1996**; 116(2): 246-8.
11. Smarick SD, Haskins SC, Aldrich J, et al. Incidence of catheter-associated urinary tract infection among dogs in a small animal intensive care unit. *Journal of the American Veterinary Medical Association* **2004**; 224(12): 1936-40.
12. Zhao H, Li X, Johnson DE, Mobley HLT. Identification of protease and rpoN-associated genes of uropathogenic *Proteus mirabilis* by negative selection in a mouse model of ascending urinary tract infection. *Microbiology (Reading, England)* **1999**; 145 (Pt 1): 185-95.
13. Ai J, Hu Y, Zhou FF, Liao YX, Yang T. Machine learning-assisted ensemble analysis for the prediction of urinary tract infection in elderly patients with ovarian cancer after cytoreductive surgery. *World journal of clinical oncology* **2022**; 13(12): 967-79.
14. Colborn KL, Bronsert M, Hammermeister K, Henderson WG, Singh AB, Meguid RA. Identification of urinary tract infections using electronic health record data. *American journal of infection control* **2019**; 47(4): 371-5.
15. Goda R, Sharma R, Borkar SA, et al. Frailty and Neutrophil Lymphocyte Ratio as Predictors of Mortality in Patients with Catheter-Associated Urinary Tract Infections or Central Line-Associated Bloodstream Infections in the Neurosurgical Intensive Care Unit: Insights from a Retrospective Study in a Developing Country. *World neurosurgery* **2022**; 162: e187-e97.
16. Jakobsen RS, Nielsen TD, Leutscher P, Koch K. A study on the risk stratification for patients within 24 hours of admission for risk of hospital-acquired urinary tract infection using Bayesian network models. *Health informatics journal* **2024**; 30(1): 14604582241234232.
17. Zhou L, Liang S, Shuai Q, Fan C, Gao L, Cai W. Early warning model construction and validation for urinary tract infection in patients with neurogenic lower urinary tract dysfunction (NLUTD): a retrospective study. *PeerJ* **2022**; 10: e13388.
18. Zhu C, Xu Z, Gu Y, et al. Prediction of post-stroke urinary tract infection risk in immobile patients using machine learning: an observational cohort study. *The Journal of hospital infection* **2022**; 122: 96-107.
19. Zilberberg MD, Nathanson BH, Sulham K, Fan W, Shorr AF. Development and validation of a bedside instrument to predict carbapenem resistance among gram-negative pathogens in complicated urinary tract infections. *Infection control and hospital epidemiology* **2018**; 39(9): 1112-4.
20. Bian CH, Pan Y, Tan YN, Zhang LM, Wang RQ, Zhang GJ. [Related factors of urinary tract infections in inpatients based on real world data]. *Zhonghua*

- yu fang yi xue za zhi [Chinese journal of preventive medicine] **2022**; 56(11): 1636-41.
21. Esclarín De Ruz A, García Leoni E, Herruzo Cabrera R. Epidemiology and risk factors for urinary tract infection in patients with spinal cord injury. *The Journal of urology* **2000**; 164(4): 1285-9.
 22. Hernández-Bou S, Trenchs V, Cano I, Girona M, Luaces C. Neonates With Urinary Tract Infection: Is a Lumbar Puncture Always Indicated? *The Pediatric infectious disease journal* **2020**; 39(9): 849-53.
 23. Kaygısız O, Satar N, Güneş A, et al. Factors predicting postoperative febrile urinary tract infection following percutaneous nephrolithotomy in prepubertal children. *Journal of pediatric urology* **2018**; 14(5): 448.e1-.e7.
 24. Madrazo M, Esparcia A, Alberola J, et al. Predictive factors for *Enterococcus faecalis* in complicated community-acquired urinary tract infections in older patients. *Geriatrics & gerontology international* **2020**; 20(3): 183-6.
 25. Nadeem S, Badawy M, Oke OK, Filkins LM, Park JY, Hennes HM. Pyuria and Urine Concentration for Identifying Urinary Tract Infection in Young Children. *Pediatrics* **2021**; 147(2).
 26. Shimizu T, Sugihara T, Kamei J, et al. Predictive factors and management of urinary tract infections after kidney transplantation: a retrospective cohort study. *Clinical and experimental nephrology* **2021**; 25(2): 200-6.
 27. Snow-Lisy DC, Halline C, Johnson EK, Diaz-Saldano D, Meyer T, Yerkes EB. Reassessing the utility of routine urine culture with urodynamics: UTI incidence and risk factors. *Journal of pediatric urology* **2017**; 13(4): 372.e1-.e8.
 28. Wang W, Yao W, Tang W, Li Y, Sun H, Ding W. Risk factors for urinary tract infection in geriatric hip fracture patients: a systematic review and meta-analysis. *Frontiers in medicine* **2024**; 11: 1360058.
 29. Li Y, Liu Y, Huang Y, et al. Development and validation of a user-friendly risk nomogram for the prediction of catheter-associated urinary tract infection in neuro-intensive care patients. *Intensive & critical care nursing* **2023**; 74: 103329.
 30. Liu Y, Li Y, Huang Y, et al. Prediction of Catheter-Associated Urinary Tract Infections Among Neurosurgical Intensive Care Patients: A Decision Tree Analysis. *World neurosurgery* **2023**; 170: 123-32.
 31. Wang F, Wang X, Shi Y, et al. Development of a risk nomogram predicting urinary tract infection in patients with indwelling urinary catheter after radical surgery for cervical cancer. *Progres en urologie : journal de l'Association francaise d'urologie et de la Societe francaise d'urologie* **2023**; 33(10): 492-502.