

# 94 Urinary Tract Infections and Hematuria



## REFERENCES

- Griebing TL: Urinary tract infection in women, in National Institute of Diabetes and Digestive and Kidney Diseases: *Urologic Diseases in America*. NIH Publication No. 07-5512. Washington, DC, US Government Printing Office, 2007, p. 587. Available at: [http://kidney.niddk.nih.gov/statistics/uda/Urinary\\_Tract\\_Infection\\_in\\_Women-Chapter18.pdf](http://kidney.niddk.nih.gov/statistics/uda/Urinary_Tract_Infection_in_Women-Chapter18.pdf). Accessed July 2009.
- Foxman B: Epidemiology of urinary tract infections: incidence, morbidity, and economic costs. *Am J Med* 113: 55, 2002.
- Griebing TL: Urinary tract infection in men, in National Institute of Diabetes and Digestive and Kidney Diseases: *Urologic Diseases in America*. NIH Publication No. 07-5512. Washington, DC, US Government Printing Office, 2007, p. 621. Available at: [http://kidney.niddk.nih.gov/statistics/uda/Urinary\\_Tract\\_Infection\\_in\\_Men-Chapter19.pdf](http://kidney.niddk.nih.gov/statistics/uda/Urinary_Tract_Infection_in_Men-Chapter19.pdf). Accessed July 2009.
- Stamm WE, Counts GW, Running KR, et al: Diagnosis of coliform infection in acutely dysuric women. *N Engl J Med* 307: 463, 1982.
- Krieger JN: Urinary tract infections: what's new? *J Urol* 168: 2531, 2002.
- LE Nicolle; AMMI Canada Guidelines Committee: Complicated urinary tract infection in adults. *Can J Infect Dis Med Microbiol* 16: 349, 2005.
- Hooton TM, Scholes D, Stapleton AE, et al: A prospective study of asymptomatic bacteriuria in sexually active young women. *N Engl J Med* 343: 992, 2000.
- Fihn SD: Clinical practice: acute uncomplicated urinary tract infection in women. *N Engl J Med* 349: 259, 2003.
- American College of Obstetricians and Gynecologists: Treatment of urinary tract infections in nonpregnant women. ACOG Practice Bulletin No. 91. *Obstet Gynecol* 111: 785, 2008.
- Bent S, Nallamothu BK, Simel DL, et al: Does this woman have an acute uncomplicated urinary tract infection? *JAMA* 287: 2701, 2002.
- Stapleton A: Urinary tract infections in patients with diabetes. *Am J Med* 113: 80s, 2002.
- Bent S, Saint S: The optimal use of diagnostic testing in women with acute uncomplicated cystitis. *Am J Med* 113: 20s, 2002.
- Management of suspected bacterial urinary tract infection in adults. A national clinical guideline. Edinburgh, Scottish Intercollegiate Guidelines Network, 2006. Available from the National Guideline Clearinghouse at: [http://www.guideline.gov/summary/summary.aspx?doc\\_id=9724](http://www.guideline.gov/summary/summary.aspx?doc_id=9724). Accessed August 2009.
- Peele JD, Gadsden RH, Crews R: Semi-automated vs. visual reading of urinalysis dipsticks. *Clin Chem* 23: 2242, 1977.
- Jenkins RD, Fenn JP, Matsen JM: Review of urine microscopy for bacteriuria. *JAMA* 255: 3397, 1986.
- Lohr JA, Portilla MG, Geuder TG, et al: Making a presumptive diagnosis of urinary tract infection by using urinalysis performed in an on-site laboratory. *J Pediatr* 122: 22, 1993.
- Deville WL, Yzermans JC, van Duijn NP, et al: The urine dipstick test useful to rule out infections: a meta-analysis of the accuracy. *BMC Urol* 4: 4, 2004.
- Rehmani R: Accuracy of urine dipstick to predict urinary tract infections in an emergency department. *J Ayub Med Coll Abbottabad* 1: 4, 2004.
- Jones C, MacPherson Stevens DL: Inability of the chemstrip LN compared with quantitative urine culture to predict significant bacteriuria. *J Clin Micro* 23: 160, 1986.
- Thanassi M: Utility of urine and blood cultures in pyelonephritis. *Acad Emerg Med* 4: 797, 1997.
- Velasco M, Martinez A, Moreno-Martinez A, et al: Blood cultures for women with uncomplicated pyelonephritis: are they necessary? *Clin Infect Dis* 37: 1127, 2003.
- Gupta K, Hooton TM, Roberts PL, Stamm WE: Short-course nitrofurantoin for the treatment of acute uncomplicated cystitis in woman. *Arch Intern Med* 167: 2207, 2007.
- Grabe M, Bishop MC, Bjerklund-Johansen TE, et al: *European Association of Urology Guidelines on Urogenital Infections*. Arnheim, The Netherlands, European Association of Urology, 2009, p. 1.
- Gupta K, Hooton TM, Stamm WE: Increasing antimicrobial resistance and the management of uncomplicated community-acquired urinary tract infections. *Ann Intern Med* 135: 41, 2001.
- Kallen AJ, Welch HG, Sirovich BE: Current antibiotic therapy for isolated urinary tract infections in woman. *Arch Intern Med* 166: 635, 2006.
- Karlowsky JA, Hoban DJ, DeCorby MR, et al: Fluoroquinolone-resistant urinary isolates of *Escherichia coli* from outpatients are frequently multidrug resistant: results from the North American Urinary Tract Infection Collaborative Alliance-Quinolone Resistance Study. *Antimicrob Agents Chemother* 50: 2251, 2006.
- Olson RP, Harrell LJ, Day KS: Antibiotic resistance in urinary isolates of *Escherichia coli* from college woman with urinary tract infections. *Antimicrob Agents Chemother* 53: 1285, 2009.
- Milo G, Katchman EA, Christiaens PM, et al: Duration of antibacterial treatment for uncomplicated urinary tract infection in women. *Cochrane Database Syst Rev* 2: CD004682, 2005.
- Pohl A: Modes of administration of antibiotics for symptomatic severe urinary tract infections. *Cochrane Database Syst Rev* 4: CD003237, 2007.
- Hooton TM, Scholes D, Gupta K, et al: Amoxicillin-clavulanate vs ciprofloxacin for the treatment of uncomplicated cystitis in women: a randomized trial. *JAMA* 293: 949, 2005.
- Warren JW, Abrutyn E, Hebel JR, et al: Guidelines for antimicrobial treatment of uncomplicated acute bacterial cystitis and acute pyelonephritis in women. *Clin Infect Dis* 29: 745, 1999.
- Schito GC, Naber KG, Botto H, et al: The ARESC study: an international survey on the antimicrobial resistance of pathogens involved in uncomplicated urinary tract infections. *Int J Antimicrob Agents* Nov;34(5): 407, 2009. Epub June 7, 2009.
- Lutters M, Vogt-Ferrier NB: Antibiotic duration for treating uncomplicated, symptomatic lower urinary tract infections in elderly women. *Cochrane Database Syst Rev* 3: CD001535, 2008.
- Nicolle LE: Uncomplicated urinary tract infection in adults including uncomplicated pyelonephritis. *Urol Clin North Am* 35: 1, 2008.
- Wagenlehner FM, Weidner W, Naber KG: An update on uncomplicated urinary tract infections in women. *Curr Opin Urol* 19: 368, 2009.
- Peterson J, Kaul S, Khashab M, et al: A double-blind, randomized comparison of levofloxacin 750 mg once-daily for five days with ciprofloxacin 400/500 mg twice-daily for 10 days for the treatment of complicated urinary tract infections and acute pyelonephritis. *Urology* 71: 17, 2008.
- Jepson RG, Mihaljevic L, Craig J: Cranberries for preventing urinary tract infections. *Cochrane Database Syst Rev* 2: CD001321, 2004.
- Strom BL, Collins M, West SL, et al: Sexual activity, contraceptive use, and other risk factors for symptomatic and asymptomatic bacteriuria: a case-control study. *Ann Intern Med* 107: 816, 1987.
- Sutton JM: Evaluation of hematuria in adults. *JAMA* 263: 2475, 1990.
- Grossfeld GD, Litwin MS, Wolf JS, et al: Evaluation of asymptomatic microscopic hematuria in adults: the American Urological Association best practice policy—Part I: definition, detection, prevalence, and etiology; Part II: patient evaluation, cytology, voided markers, imaging, cystoscopy, nephrology evaluation and follow-up. *Urology* 57: 599, 2001.
- Summerton N, Mann S, Rigby AS, et al: Patients with new onset haematuria: assessing the discriminant value of clinical information in relation to urologic malignancies. *Br J Gen Pract* 52: 284, 2002.
- ACR Appropriateness Criteria® hematuria (guideline). National Guideline Clearinghouse, 2006. Available at: [http://www.guideline.gov/summary/summary.aspx?ss=15&doc\\_id=8279&nbr=4611](http://www.guideline.gov/summary/summary.aspx?ss=15&doc_id=8279&nbr=4611). Accessed July 2009.
- Sokolosky MC: Hematuria. *Emerg Med Clin North Am* 19: 621, 2001.
- Colistro R, Torreggiani WC, Lynburn ID, et al: Unenhanced helical CT in the investigation of acute flank pain. *Clin Radiol* 57: 435, 2002.
- Tenke P, Kovacs B, Bjerkland TE, et al: European and Asian guidelines on management and prevention of catheter-associated urinary tract infections. *Int J Antimicrob Agents* 31S: S68, 2008.

## USEFUL WEB RESOURCES

- Urinary Tract Infections, Centers for Disease Control and Prevention—[http://www.cdc.gov/ncidod/dbmd/diseaseinfo/urinarytractinfections\\_t.htm](http://www.cdc.gov/ncidod/dbmd/diseaseinfo/urinarytractinfections_t.htm)
- Urinary tract infection listings (multiple), National Guideline Clearinghouse—<http://www.guideline.gov/browse/browsemode.aspx?node=28188&type=1>
- Treatment of Urinary Tract Infections in Nonpregnant Women (American College of Obstetricians and Gynecologists), National Guideline Clearinghouse—[http://www.guideline.gov/summary/summary.aspx?doc\\_id=12628](http://www.guideline.gov/summary/summary.aspx?doc_id=12628)
- Guidelines on Urological Infections, European Association of Urology—<http://www.uroweb.org/nc/professional-resources/guidelines/online/>
- Hematuria (Blood in the Urine), National Kidney and Urologic Diseases Information Clearinghouse—<http://kidney.niddk.nih.gov/kudiseases/pubs/hematuria/>