

## Akutní epididymitida

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1. Berger RE. Epididymitis. In Walsh PC, Retik AB, Vaughan ED, Wein AJ eds, *Campbell's Urology*. 7<sup>th</sup> edn. Philadelphia: WB Saunders, 1998: 670-3
2. Berger RE, Alexander ER, Harnisch Pausen CA, Monda GD, Ansell J, Holmes KK. Etiology, manifestations and therapy of acute epididymitis: prospective study of 50 cases. *J Urol* 1979; **121**: 750-4
3. Collins MM, Stafford RS, O'Leary MP, Barry MJ. How common is prostatitis? A national survey of physician visits. *J Urol* 1998; **159**: 1224-8
4. Moore CA, Lockett BL, Lennox KW *et al.* Prednisone in the treatment of acute epididymitis: a cooperative study. *J Urol* 1971; **106**: 578-80
5. Mittemeyer BT, Lennox KW, Borski AA. Epididymitis: a review of 610 cases. *J Urol* 1966; **95**: 390-2
6. Doble A, Taylor-Robinson D, Thomas BJ *et al.* Acute epididymitis: a microbiological and ultrasonographic study. *Br J Urol* 1989; **63**: 90-4
7. Berger RE, Kessler D, Holmes KK. Etiology and manifestations of epididymitis in young men: correlations with sexual orientation. *J Infect Dis* 1987; **155**: 1341-3
8. Kaver I, Matzkin H. Epididymoorchitis: a retrospective study of 121 patients. *J Fam Pract* 1990; **30**: 548-52
9. Krishnan R, Heal MR. Study of the seminal vesicles in acute epididymitis. *Br J Urol* 1991; **67**: 632-7
10. Wolin LH. On the etiology of epididymitis. *J Urol* 1971; **105**: 531-3
11. Hakim A, Bradley H. Salmonella epididymo-orchitis in infancy and childhood. *Clin Pediatr* 1992; **31**: 120-2
12. Svennungsson B. Suppurative epididymo-orchitis due to *Salmonella enteritidis*. *J Infect* 1984; **8**: 64-6
13. Noble MA, Chan V. Ciprofloxacin treatment of *Salmonella hadar* epididy-
- mo-orchitis. *J Antimicrob Chemother* 1988; **21**: 383-4
14. Wheeler JS, Culkin DJ, O'Connell J, Winters G. Nocardia epididymo-orchitis in an immunosuppressed patient. *J Urol* 1986; **136**: 1314-5
15. Kauffman CA, Slama TG, Wheat LJ. *Histoplasma capsulatum* epididymitis. *J Urol* 1981; **125**: 434-5
16. Gottesman JE. Coccidioidomycosis of prostate and epididymis with urethro-cutaneous fistula. *Urology* 1974; **4**: 311-4
17. Randazzo RF, Hulette CM, Gottlieb MS, Rajfer J. Cytomegaloviral epididymitis in a patient with the acquired immune deficiency syndrome. *J Urol* 1986; **136**: 1095-7
18. Kazzaz BA, Salmo NAM. Epididymitis due to *Schistosoma haematobium* infection. *Trop Geogr Med* 1974; **26**: 333-6
19. Duke BOL. Lymphatic filariasis. In Ledingham JGG, Warrell DA eds., *Concise Oxford Textbook of Medicine*, Oxford: OUP, 2000: 1780-3
20. De Jong Z, Pontonnier F, Plante P *et al.* The frequency of Chlamydia trachomatis in acute epididymitis. *Br J Urol* 1988; **62**: 76-8
21. Mulcahy FM, Bignell CJ, Rajakumar R *et al.* Prevalence of chlamydial infection in acute epididymo-orchitis. *Genitourin Med* 1987; **63**: 16-8
22. Grant JBF, Costello CB, Sequeira PJL, Blacklock NJ. The role of Chlamydia trachomatis in epididymitis. *Br J Urol* 1987; **60**: 355-9
23. Kristensen JK, Scheibel JH. Etiology of acute epididymitis presenting in a venereal disease clinic. *Sex Trans Dis* 1984; **11**: 32-3
24. Hoosen AA, O'Farrell N, van de Ende J. Microbiology of acute epididymitis in a developing community. *Genitourin Med* 1993; **69**: 361-3

25. Hawkins DA, Taylor-Robinson D, Thomas BJ, Harris JRW. Microbiological survey of acute epididymitis. *Genitourin Med* 1986; **62**: 342-4
26. Hori S, Tsutsumi Y. Histological differentiation between chlamydial and bacterial epididymitis. *Hum Pathol* 1995; **26**: 402-7
27. Molijn GJ, Bogdanowicz JF. Chlamydial epididymitis presenting as a solid asymptomatic scrotal mass. *Br J Urol* 1997; **80**: 354
28. Jalil N, Doble A, Gilchrist C, Taylor-Robinson D. Infection of the epididymis by *Ureaplasma urealyticum*. *Genitourin Med* 1988; **64**: 367-8
29. Taylor-Robinson D. Infections due to species of *Mycoplasma* and *Ureaplasma*: an update. *Clin Infect Dis* 1996; **23**: 671-84
30. Eickhoff JH, Frimodt-Møller N, Walter S, Frimodt-Møller C. A double-blind, randomized, controlled multicentre study to compare the efficacy of ciprofloxacin with pivampicillin in men over 40 years of age. *BJU Int* 1999; **84**: 827-34
31. Hoppner W, Strohmeyer T, Hartmann Lopez-Gamarra D, Dreikorn K. Surgical treatment of acute epididymitis and its underlying diseases. *Eur Urol* 1992; **22**: 218-21
32. Wechsler H, Westfall M, Lattimer JK. The earliest signs and symptoms in 127 male patients with genitourinary tuberculosis. *J Urol* 1960; **83**: 801-3
33. Neelaranjitharajah PA. An unusual presentation of tuberculous epididymo-orchitis: case report. *Genitourin Med* 1986; **62**: 61-2
34. Werner CA. Mumps orchitis and testicular atrophy. *Ann Intern Med* 1950; **32**: 1066
35. Kuczyk MA, Denil J, Thon WF et al. Orchitis following mumps vaccination in an adult. *Urol Int* 1994; **53**: 170-80
36. Ibrahim AIA, Awad R, Shetty SD, Saad M, Bilal NE. Genitourinary complications of brucellosis. *Br J Urol* 1998; **61**: 294-8
37. Short KL, Harty JI, Amin M, Short LF. The use of ketoconazole to treat systemic blastomycosis presenting as acute epididymitis. *J Urol* 1983; **129**: 382-4
38. Swartz DA, Harrington P, Wilcox R. Candidal epididymitis treated with ketoconazole. *N Eng J Med* 1988; **319**: 1485
39. Jenks P, Brown J, Warnock D, Barnes N. *Candida glabrata* epididymo-orchitis: an unusual infection rapidly cured with surgical and antifungal treatment. *J Infect* 1995; **31**: 71-2
40. Docimo SG, Rukstalis DB, Rukstalis MR, Kang J, Cotton D, DeWolf WC. *Candida* epididymitis: newly recognized opportunistic epididymal infection. *Urology* 1993; **41**: 280-2
41. Berger RE, Alexander ER, Monda GD, Ansell J, McCormick G, Holmes KK. *Chlamydia trachomatis* as a cause of acute 'idiopathic' epididymitis. *N Engl J Med* 1978; **298**: 301-4
42. Herwig KR, Lapides J, MacLean TA. Response of acute epididymitis to oxyphenbutazone. *J Urol* 1971; **106**: 890-1
43. Beck DA, Taylor DE. Post-prostatectomy epididymitis: a bacteriological and clinical survey. *J Urol* 1970; **104**: 143-5
44. Weingartner K, Gerharz EW, Gillich M, Riedmiller H. Ectopic trifid ureter causing recurrent acute epididymitis. *Br J Urol* 1998; **81**: 164-5
45. Thind P, Gerstenberg TC, Bilde T. Is micturition disorder a pathogenic factor in acute epididymitis? An evaluation of simultaneous bladder pressure and urine flow in men with previous acute epididymitis. *J Urol* 1990; **143**: 323-5
46. Thind P, Brandt B, Kristensen JK. Assessment of voiding dysfunction in men with acute epididymitis. *Urol Int* 1992; **48**: 320-2
47. Sadek I, Biron P, Kus T. Amiodarone-induced epididymitis: report of a new case and literature review of 12 cases. *Can J Cardiol* 1993; **9**: 833-6
48. Wright LF, Bicknell SL. Systemic necrotizing vasculitis presenting as epididymitis. *J Urol* 1986; **136**: 1094
49. Kaklamani VG, Vaiopoulos G, Markomichelakis N, Kaklamanis P. Recurrent epididymo-orchitis in patients with

- Behcet's disease. *J Urol* 2000; **163**: 487-9
50. Lee JS, Choi SK. Acute scrotum in 7 cases of Schoenlein-Henoch syndrome. *Yonsei Med J* 1998; **39**: 73-8
  51. Jefferson RH, Pérez LM, Joseph DB. Critical analysis of the clinical presentation of acute scrotum: a 9-year experience at a single institution. *J Urol* 1997; **158**: 1198-200
  52. Hendrikx AJM, Dang CL, Vroegindeweij D, Korte JH. B-mode and colour-flow duplex ultrasonography: a useful adjunct in diagnosing scrotal diseases? *Br J Urol* 1997; **79**: 58-65
  53. Rolnick D, Presman D. Acute pain as presenting symptom of testicular tumor. *J Urol* 1962; **88**: 529-32
  54. Mehta HH, Thirumala S, Palestro CJ. Leukemic infiltration mimicking epididymo-orchitis on scrotal scintigraphy. *Clin Nucl Med* 1997; **22**: 721-2
  55. Taylor-Robinson D. Tests for infection with Chlamydia trachomatis. *Int J STD AIDS* 1996; **7**: 19-26
  56. Eley A, Oxley KM, Spencer RC, Kinghorn GR, Ben-Ahmeida ET, Potter CW. Detection of Chlamydia trachomatis by the polymerase chain reaction in young patients with acute epididymitis. *Eur J Clin Microbiol Infect Dis* 1992; **11**: 620-3
  57. Berger RE, Holmes KK, Mayo ME, Reed R. The clinical use of epididymal aspiration cultures in the management of selected patients with acute epididymitis. *J Urol* 1980; **124**: 60-1
  58. Herbener TE. Ultrasound in the assessment of the acute scrotum. *J Clin Ultrasound* 1996; **24**: 405-21
  59. Wilbert DM, Schaefer CW, Stern WD, Strohmaier WL, Bichler KH. Evaluation of the acute scrotum by color-coded Doppler ultrasonography. *J Urol* 1993; **149**: 1475-7
  60. Melloul M, Paz A, Lask D, Manes A, Mukamel E. The value of radionuclide scrotal imaging in the diagnosis of acute testicular torsion. *Br J Urol* 1995; **76**: 628-31
  61. Flores LG, Shiba T, Hoshi H, Jinnouchi S, Nagamachi S, Watanabe K. Scintigraphic evaluation of testicular torsion and acute epididymitis. *Ann Nucl Med* 1996; **10**: 89-92
  62. Bullock KN, Hunt JM. The intravenous urogram in acute epididymo-orchitis. *Br J Urol* 1981; **53**: 47-9
  63. Murshidi MS. Intravenous urography as a routine investigation in epididymitis. *Br J Urol* 1985; **57**: 338-40
  64. Cooke DI, Williams CE, Fowler RC. An evaluation of the role of the intravenous urogram in the management of patients with epididymo-orchitis. *Clin Rad* 1987; **38**: 255-6
  65. Kalovidouris A, Birch PA, Fletcher EWL. Intravenous urography as a routine examination in epididymitis - a re-evaluation. *Br J Urol* 1982; **54**: 415-6
  66. Kadish HA, Bolte RG. A retrospective review of pediatric patients with epididymitis, testicular torsion, and torsion of testicular appendages. *Paediatrics* 1998; **102**: 73-6
  67. Anderson PAM, Giacomantonio JM. The acutely painful scrotum in children: review of 113 consecutive cases. *Can Med Assoc J* 1985; **132**: 1153-5
  68. Knight PJ, Vassy LE. The diagnosis and treatment of the acute scrotum in children and adolescents. *Ann Surg* 1984; **200**: 664-73
  69. Gislason TG, Noronha FX, Gregory JG. Acute epididymitis in boys: a 5-year retrospective study. *J Urol* 1980; **124**: 533-4
  70. Merlini E, Rotundi F, Seymandi PL, Canning DA. Acute epididymitis and urinary tract anomalies in children. *Scand J Urol Nephrol* 1998; **32**: 273-5
  71. Oguzkurt P, Büyükpamukçu N. Acute scrotum due to epididymo-orchitis associated with vasal anomalies in children with anorectal malformations. *J Paed Surg* 1998; **33**: 1834-6
  72. Ng JWT, Chan AYT, Kong CK, Wong MK. Posterior urethral valves presenting as acute epididymo-orchitis: a case report and follow-up study. *Aust NZ J Surg* 1996; **66**: 129-30
  73. Siegel A, Snyder H, Duckett JW. Epididymitis in infants and boys: underlying urogenital anomalies and efficacy of imaging modalities. *J Urol* 1987; **138**: 1100-3

74. Lin Y-C, King DR, Birken GA, Barson WJ. Acute scrotum due to *Haemophilus influenzae* type b. *J Paed Surg* 1988; **23**: 183-4
75. Clinical Effectiveness Group (Association of Genitourinary Medicine and the Medical Society for the Study of Venereal Diseases). National guideline for the management of epididymo-orchitis. *Sex Trans Inf* 1999; **75**: S51-S53
76. Centers for Disease Control and Prevention. Sexually transmitted diseases treatment guidelines. *MMWR* 1998; **47**: 1-118
77. Low N, Cowan F. Genital chlamydial infection. *Clin Evidence* 2000; **3**: 749-55
78. Witherington R, Harper WM. The surgical management of acute bacterial epididymitis with emphasis on epididymotomy. *J Urol* 1982; **128**: 722-5
79. Costas S, Van Blerk PJP. Incision of the external inguinal ring in acute epididymitis. *Br J Urol* 1973; **45**: 555-8
80. Robinson AJ, Grant JBF, Spencer RC, Potter C, Kinghorn GR. Acute epididymitis: why patient and consort must be investigated. *Br J Urol* 1990; **66**: 642-5
81. Desai KM, Gingell JC, Haworth JM. Fate of the testis following epididymitis: a clinical and ultrasound study. *J Roy Soc Med* 1986; **79**: 515-9
82. Owen ERTC, Kitson JL, Green B. Venous infarction of the testis secondary to acute epididymitis. *Br J Urol* 1990; **65**: 107-8
83. Rencken RK, Du Plessis DJ, De Haas LS. Venous infarction of the testis - a cause of non-response to conservative therapy in epididymo-orchitis. *South Afr Med J* 1990; **78**: 337-8
84. Vordermark JS. Acute epididymitis: experience with 123 cases. *Milit Med* 1985; **150**: 27-30
85. Nilsson S, Obrant KO, Persson PS. Changes in the testis parenchyma caused by acute nonspecific epididymitis. *Fertil Steril* 1968; **19**: 748-57
86. Berger RE. Acute epididymitis. In Holmes KK, Sparling PF, Mardh P-A et al, eds., *Sexually Transmitted Diseases* 3rd edn. New York: McGraw-Hill, 1999: 847-58
87. Comhaire FH, Rowe PJ, Farley TMM. The effect of doxycycline in infertile couples with male accessory gland infection: a double blind prospective study. *Int J Androl* 1986; **9**: 91-8
88. Paavonen J, Eggert-Kruse W. Chlamydia trachomatis: impact on human reproduction. *Hum Reprod Update* 1999; **5**: 433-47
89. Ingerslev HJ, Walter S, Anderson JT et al. A prospective study of antisperm antibody development in acute epididymitis. *J Urol* 1986; **136**: 162-4

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