

표 1. 소아 핵심질문2 근거표

핵심질문 2

문헌정보	연구유형	대상자수	문헌 질 KCIG
Gordon C, Stapleton FB. Hematuria in adolescents. Adolesc Med Clin. 2005; 16(1):229-239.	Review/Other-Dx	N/A	5
Lieu TA, Grasmeyer HM, 3rd, Kaplan BS. An approach to the evaluation and treatment of microscopic hematuria. Pediatr Clin North Am. 1991;38(3):579-592.	Review/Other-Dx	N/A	5
Meyers KE. Evaluation of hematuria in children. Urol Clin North Am. 2004;31(3):559-573.	Review/Other-Dx	N/A	5
Greenfield SP, Williot P, Kaplan D. Gross hematuria in children: a ten-year review. Urology. 2007; 69(1):166-169.	Review/Other-Dx	342 (272 boys (80%) and 70 girls (20%))	5
Shin JI, Park JM, Lee JS, Kim MJ. Effect of renal Doppler ultrasound on the detection of nutcracker syndrome in children with hematuria. Eur J	Observational-Dx	248 consecutive patients (216 with)	2
Youn T, Trachtman H, Gauthier B. Clinical spectrum of gross hematuria in pediatric patients. Clin Pediatr (Phila). 2006;45(2):135-141.	Review/Other-Dx	100 patients	5
Gleason PE, Kramer SA. Genitourinary polyps in children. Urology. 1994; 44(1):106-109.	Review/Other-Dx	18 patients	5
Lee CC, Lin JT, Deng HH, Lin ST. Hematuria due to nutcracker phenomenon of left renal vein: report of a case. J Formos Med Assoc. 1993;92(3):291-293.	Review/Other-Dx	1	5
Takahashi Y, Akaishi K, Sano A, Kuroda Y. Intra-arterial digital subtraction angiography for children with idiopathic renal bleeding: a diagnosis of nutcracker phenomenon. Clin Nephrol. 1988; 30(3):134-140.	Review/Other-Dx	28 cases	5
Lerena J, Krauel L, Garcia-Aparicio L, Vallasciani S, Sunol M, Rodo J. Transitional cell carcinoma of the bladder in children and adolescents:six-case series and review of the literature. J Pediatr Urol. 2010;6(5):481-485.	Review/Other-Dx	6 cases	5
Ander H, Donmez MI, Yitgin Y, et al. Urothelial carcinoma of the urinary bladder in pediatric patients: a longterm follow-up. Int Urol Nephrol. 2015;47(5):771-774.	Review/Other-Dx	8 patients	5
Vianello FA, Mazzoni MB, Peeters GG, et al. Micro- and macroscopic hematuria caused by renal vein entrapment: systematic review of the literature. Pediatr Nephrol. 2016; 31(2):175-184.	Review/Other-Dx	187 studies/ 736 patients	5
Fu WJ, Hong BF, Gao JP, et al. Nutcracker phenomenon: a new diagnostic method of multislice computed tomography angiography. Int J Urol. 2006; 13(7):870-873.	Observational-Dx	4 with nutcracker phenomenon	5

		10 healthy controls	
Mishra VC, Rowe E, Rao AR, et al. Role of i.v. urography in patients with haematuria. Scand J Urol Nephrol. 2004; 38(3):236–239.	Observational -Dx	1211 patients	5
Fitoz S, Ekim M, Ozcakar ZB, Elhan AH, Yalcinkaya F. Nutcracker syndrome in children: the role of upright position examination and superior mesenteric artery angle measurement in the diagnosis. J Ultrasound Med. 2007; 26(5):573–580.	Observational -Dx	49 patients	5
Hogg RJ, Silva FG, Berry PL, Wenz JE. Glomerular lesions in adolescents with gross hematuria or the nephrotic syndrome. Report of the Southwest Pediatric Nephrology Study Group. Pediatr Nephrol. 1993; 7(1):27–31.	Observational -Dx	121 patients	3
Shin JI, Park JM, Lee JS, Kim MJ. Doppler ultrasonographic indices in diagnosing nutcracker syndrome in children. Pediatr Nephrol. 2007; 22(3):409–413.	Observational -Dx	30 patients	5
Shin JI, Park JM, Lee SM, et al. Factors affecting spontaneous resolution of hematuria in childhood nutcracker syndrome. Pediatr Nephrol. 2005; 20(5):609–613.	Observational -Dx	20 patients	5
Alarcon CM, Cubillana PL, Aleman AC, Avellaneda EC. Hematuria secondary to congenital arteriovenous fistula treated with embolization. Arch Esp Urol. 2011;64(6):550–553.	Review/ Other-Dx	1 case	5
Ashley RA, Figueroa TE. Gross hematuria in a 3-year-old girl caused by a large isolated bladder hemangioma. Urology. 2010; 76(4):952–954.	Review/ Other-Dx	1 case	5
Ben Abdallah Chabchoub R, Chabchoub K, Maaloul I, et al. [Nutcracker syndrome: a rare cause of hematuria]. Arch Pediatr. 2011; 18(11):1188–1190.	Review/ Other-Dx	2 cases	5
Comparison of spiral CT and US in the evaluation of pediatric urolithiasis.	Observational-Dx	29 infants	3
Palmer JS, Donaher ER, O'Riordan MA, Dell KM. Diagnosis of pediatric urolithiasis: role of ultrasound and computerized tomography. J Urol. 2005; 174(4 Pt 1):1413–1416.	Observational-Dx	75 patients	3
Masch WR, Cohan RH, Ellis JH, Dillman JR, Rubin JM, Davenport MS. Clinical Effectiveness of Prospectively Reported Sonographic Twinkling Artifact for the Diagnosis of Renal Calculus in Patients Without Known Urolithiasis. AJR Am J Roentgenol. 2016;206(2):326–331.	Observational-Dx	85 patients	3