



가 (nephrogenic adenoma) (metaplasia) (supra - pubic cystostomy) . 1 6 (1). MRI T1 (Fig. 3A) T2 가 T1 가 (3, 4). 8 1 (CT) (Fig. 3B). MRI (nephrogenic metaplasia) (adenomatous metaplasia) (ileocecal conduit) (papillary tubules) 8 가 3 (Fig. 4). 1950 Friedman Kuhlenbeck (5) 가 (Fig. 1) 가 가 (1) (adenoma - tous metaplasia) (2). (Fig. 2).

7). 40 - 50 가 2
 Oliva Young (7)
 , Vorreuther (8)
 가
 (3, 4).
 (3) CT
 (4)
 (transitional cell carcinoma), (adenocarcinoma)
 (rhabdomyosarcoma)



Fig. 1. Transverse sonographic scan of the urinary bladder shows irregular thickening and polypoid projection along the right lateral wall.

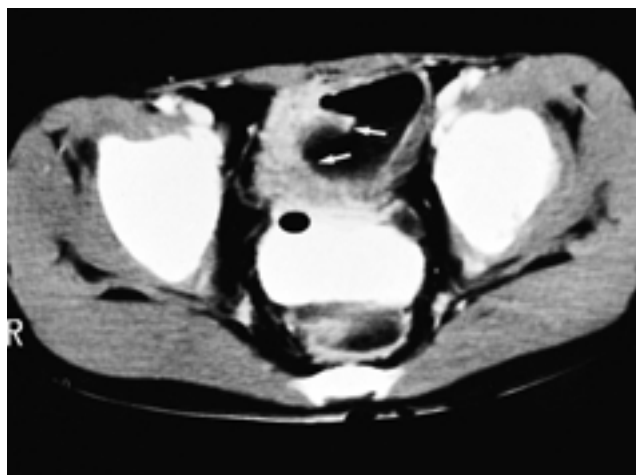
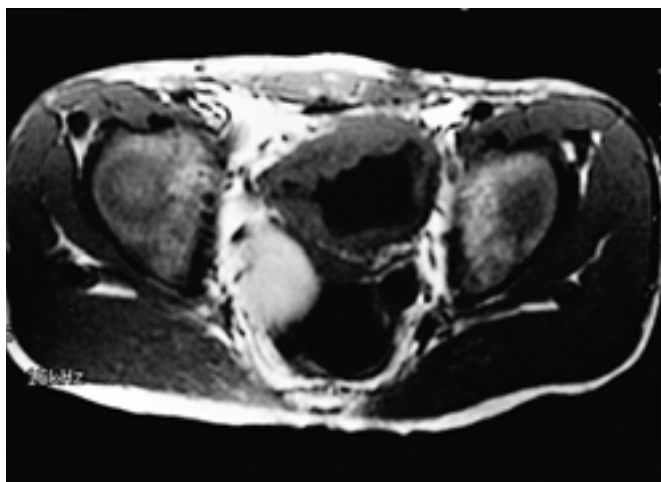


Fig. 2. CT image demonstrates heterogeneous and intense enhancement at the right lateral wall of the urinary bladder (arrows).



A
Fig. 3. MR performed 1 1/2 years after initial US and CT. T1-weighted axial scan (A) shows diffuse and irregular thickening of the urinary bladder wall with heterogeneous low signal intensity. Gd-enhanced T1-weighted coronal scan (B) reveals irregular thickening with polypoid projections(white arrows) at the heterogeneously enhanced urinary bladder wall . The bladder is distorted and the right distal ureter is dilated (black arrows).



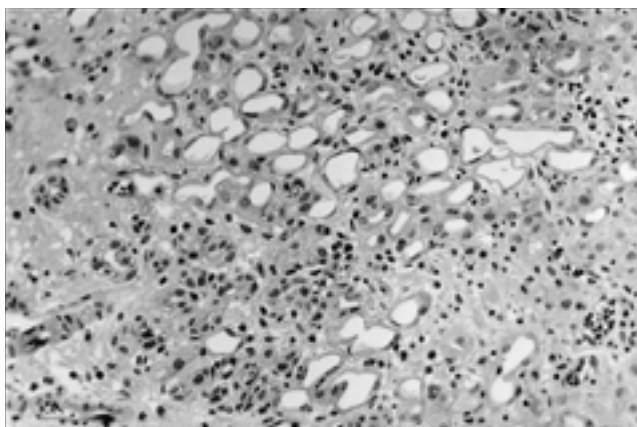


Fig. 4. Photomicrograph shows many tubules with lining of cuboidal to flattened epithelium in small aggregated pattern and dilated lumens (H&E stain, $\times 250$).

(3, 6).

(2).

가

가

75%, 38%

가

1 6

가

가

1. Cremer H, Adolphs HD. The natural history of nephrogenic adenoma of the urinary bladder. *Z Krebsforsch Klin Onkol Cancer Res Clin Oncol* 1978;91:49-53
2. Husan AN, Armin AR, Schuster GA. Nephrogenic metaplasia of urinary tract in children: report of three cases and review of the literature. *Pediatr Pathol* 1988;8:293-300
3. Jequier S, Bugmann P, Brundler MA. Nephrogenic adenoma of the bladder: ultrasound demonstration. A case report. *Pediatr Radiol* 1999;29:185-187
4. Zingas AD, Kling GA, Crotte E, Shumaker E, Vazquez PM. Computed tomography of nephrogenic adenoma of the urinary bladder. *J Comput Assist Tomogr* 1986;10(6):979-82
5. Friedman NB, Kuhlenbeck H. Adenomatoid tumor of the bladder reproducing renal structures (nephrogenic adenomas). *J Urol* 1950;64:657-670
6. Carl GK, Ece IA, Jeffrey JB. Nephrogenic adenoma arising from a urethral diverticulum: magnetic resonance features. *Urology* 1995;45:323-325
7. Olivia E, Young RH. Nephrogenic adenoma of the urinary tract: a review of the microscopic appearance of 80 cases with emphasis on unusual features. *Mod Pathol* 1995;8:722-730
8. Vorreuther R, Naval W, Hake R, Engelmann U. Nephrogenic adenoma of the bladder. *Urol Int* 1994;53:227-275

Nephrogenic Adenoma Arising from the Urinary Bladder: A Case Report¹

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Nephrogenic adenoma is a benign metaplastic lesion of the urinary tract occurring most frequently at the urinary bladder. It is very rare, especially in children. We describe the US, CT and MRI findings of nephrogenic adenoma arising from the urinary bladder in an 8-year-old girl who suffered rupture of the bladder, urethra and vagina after a traffic accident and whose condition was complicated by urethral stricture and vesicoureteral reflux.

Index words : Bladder, US
Bladder neoplasms
Bladder, MR

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1:00 - 1:40	Introduction to skeletal radiology and bone growth	(,)
1:40 - 2:10	Traumatic lesions of bones and joints	(,)
2:10 - 2:20	Discussion	
2:20 - 2:50	Diseases of the joints	(가 ,)
2:50 - 3:20	Bone tumors and related conditions	(,)
3:20 - 3:50	Infections and inflammatory of bones	(,)

2

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4:00 - 4:30	Metabolic, endocrine, and related bone diseases	(,)
4:30 - 5:00	Histiocytosis, osteochondrosis, osteonecrosis	(가 ,)
5:00 - 5:10	Discussion	
5:10 - 5:40	Normal anatomic variants and skeletal anomalies	(,)
5:40 - 6:10	The congenital malformation syndrome	(,)
6:10 - 6:40	The superficial soft tissues	(,)

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