Bilateral megaureters secondary to neuropathic bladder in an adult

Tomoya Nishino, Yasue Watanabe, Keiji Sakurai, Seiji Morita

ABSTRACT

Abstract is not required for Clinical Images
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CASE REPORT

A 34-year-old female came to our hospital with complaints of anorexia and malaise that had persisted for approximately 10 days. She did not have abdominal or back tenderness, and her skin was dry. Her systolic blood pressure was 76 mmHg, and laboratory tests revealed an elevated creatinine level of 6.41 mg/dl, potassium level of 8.4 mEq/l, white blood cell count of 28,000/μl and C-reactive protein level of 17.98 mg/dl. She was admitted with diagnoses of urinary tract infection, acute kidney injury and hyperkalemia. At birth, she was diagnosed of schistorrachis (Figure 1), and therefore, self-catheterization was performed. Abdominal computed tomography scan showed bilateral megaureters and hydronephrosis (Figure 2). Cystoscopy showed ends of both the ureters opening into the bladder. As her blood tests were abnormal (pH 7.360, serum HCO3 11.4 mmol/l), we performed hemodialysis once. Moreover, double J stents were placed in the ureters and antibiotic prophylaxis was administered. After treatment, her symptoms improved and blood tests became normal, and she was discharged. Based on this history, we diagnosed her as a case of neuropathic bladder secondary to schistorrachis.
DISCUSSION

A dilated ureter is considered as a megaureter, and any diameter of the ureter >8 mm is considered abnormal. Although the occurrence of megaureter is common in children, it is rare in adults.

Megaureter can be classified as reflux, obstructed, and nonreflux-nonobstructed [1]. The causes of megaureter development are ureteropelvic junction obstruction, ureterovesical junction obstruction, neuropathic bladder, vesicoureterical reflux, high fetal urine output, and increased compliance of the fetal ureter. The presence of a megaureter could be considered when the patient has a urinary tract infection or hematuria. Moreover, ultrasonography scan, computed tomography, and magnetic resonance imaging scan can be used for its diagnosis. This was a case of reflux megaureter secondary to neuropathic bladder. Bilateral megaureters are rare in an adult.

Medical treatment may include antibiotic prophylaxis for infection, anticholinergic medication, and clean intermittent catheterization for elevated detrusor leak point pressure.

Surgical treatment may include ureteral plication or Infolding for moderately dilated ureters, and excisional tapering for massively dilated or thickened ureters.

Treatment of secondary megaureter is conservative. However, treatment of primary megaureter may involve surgery or may be conservative [2].

CONCLUSION

This case illustrates a neuropathic bladder secondary to schistorrachis. Bilateral secondary megaureter in an adult is rare, and treatment of secondary megaureter is conservative.

Keywords: Adult, Bilateral megaureters, Medical treatment, Neuropathic bladder

REFERENCES

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