A patient with bilateral single-system ectopic ureters who achieved urinary continence after ureteral reimplantation

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Background

• Born at 36 weeks gestation
• VATER syndrome
• Prenatal ultrasound
  – Unilateral right hydronephrosis
  – Concern for absent bladder
Renal ultrasound – DOL #3

Right kidney
Renal ultrasound – DOL #3
Left pelvic kidney
Renal ultrasound – DOL #3
Bladder
MAG3 renogram – 1 month of life
EUA – 5 months of age

- Urogenital sinus
- Duplicated vagina
- Gaping ectopic ureteral orifice into the right hemivagina
- Unable to identify the left ureteral orifice
- Extremely small bladder – estimated capacity 10cc
RPG at time of EUA
Cystogram at time of EUA
Bilateral ureteral reimplantation – age 26 months
Bilateral ureteral reimplantation – age 26 months
Long term follow-up

- UG sinus repair at age 3
- UDS at age 5
  - Bladder capacity 210mL
- Most recent FU (age 7)
  - Normal voiding patterns
- No daytime incontinence
Takeaway

• Patients w/ bilateral single system ectopic ureters rarely develop normal voiding patterns
• This patient’s ureters were ectopic to hemivaginae, not the bladder neck
• Suggests that continence is dependent solely on bladder neck development