

Pediatric Urinary Tract Infections and Catheterization in Children with Neurogenic Bladder and Bowel

Why is it important to begin urologic care in infancy and continue throughout life?

There are two main reasons:

- · To protect the kidneys from damage
 - By preventing urinary tract infections (UTI)
 - By identifying and treating vesicoureteral reflux (VUR). Keep bladder pressures low
- To help to promote bladder and bowel continence

How do I know my child has a UTI?

- Fever
- · Excessive fussiness or sleepiness
- Change in odor or appearance of urine (bloody, cloudy)
- Decreased appetite
- Vomiting

It is important to recognize symptoms of UTI in infants because they cannot complain when they become ill. Sometimes a fever may be the only obvious symptom. A high fever may mean there is a kidney infection, which is more serious than a bladder infection.

Children with SB are able to communicate their symptoms but may not be able to sense pain on urination or be able to identify (localize) where discomfort is coming from. Therefore, complaints may be vague and the child may generally not feel well. Some may be sleepier than usual or be less active. A continent child may have urinary accidents. Decreased appetite, nausea, and vomiting are also common.

How are UTI's prevented?

Avoid urinary retention. Urinary retention occurs
when urine sits in the bladder for long periods of
time, and the bladder is not adequately emptied.
To manage this problem, clean intermittent
catheterization (CIC) is necessary to empty the
bladder, usually several times each day. Because
bladder infections can be problematic, a new catheter
is recommended for each catheterization.





 Prophylactic (preventative) antibiotics are sometimes used in children who have had multiple infections and/or have VUR. A daily low dose antibiotic is often effective in preventing, but not treating, UTIs.

What is VUR?

Vesicoureteral reflux means that urine moves upward from the bladder back into the kidneys. Normally, the ureters (tubes that transport urine from kidneys to bladder) work as a one-way valve, preventing urine from traveling from the bladder to the kidneys. In VUR, urine goes both ways. When there are bacteria in the urine, it can cause kidney infections, which in turn can damage the kidneys. Although bladder infections are a nuisance, kidney infections are dangerous, because the kidneys may be permanently damaged.

How do I know if my child has VUR?

VUR is diagnosed through a test called a voiding cystourethrogram VCUG. Typically, a VCUG is performed at birth to screen for reflux. It may be repeated if the child has a UTI with fever, or if there is swelling or hydronephrosjsurine build-up inside

the kidneys. Hydronephrosis is diagnosed with ultrasounds, which are also performed at birth and regularly thereafter.

How is a VCUG performed?

A catheter is placed into the bladder. A dye that can be seen on X-rays is instilled into the bladder through the catheter. X-ray images are obtained during filling and urination. A healthy bladder appears smooth. A neurogenic bladder often outpouchings called diverticula

Although neurogenic bladder and bowel cannot be cured, a lifetime of regular urologic care and careful management through catheterization and bowel management will protect kidneys and ensure a healthier life.

This information does not constitute medical advice for any individual. As specific cases may vary from the general information presented here, SBA advises readers to consult a qualified medical or other professional on an individual basis.



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