

Vesicoureteral reflux

Categories : [Renal & Urologic Disorders](#)

Date : June 5, 2016



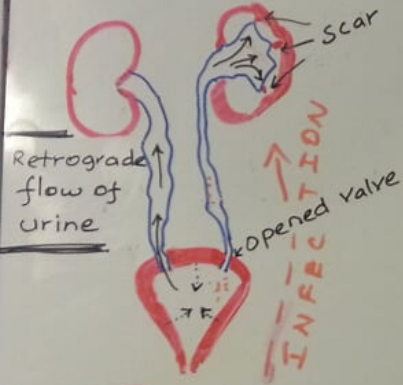
- Vesicoureteral reflux (VUR) - Abnormal backflow of urine from the bladder into the ureters/kidneys.
- Bacteria in the lower urinary tract can easily be spread by reflux to the upper tract, leading to recurrent infection with potential scarring and renal dysfunction.

Grading

- Grade I – reflux into non-dilated ureter (results in urine reflux into the ureter only)
- Grade II – reflux into the renal pelvis and calyces without dilatation
- Grade III – mild/moderate dilatation of the ureter, renal pelvis and calyces with minimal blunting of the fornices
- Grade IV – dilation of the renal pelvis and calyces with moderate ureteral tortuosity
- Grade V – gross dilatation of the ureter, pelvis and calyces; ureteral tortuosity (twisting); loss of papillary impressions (severe hydronephrosis)

Vesicoureteral Reflux (VUR)

Abnormal backflow of urine from bladder → kidney



Bladder fills
↓
Detrusor muscle compressed the oblique tunneling of the ureter [valve]
↓
Prevent Reflux

hydro-nephrosis

- Grading**
- I. non dilated ureter
 - II. Renal pelvis - No dilation
 - III. mild/moderate dilation of ureter, renal pelvis calyceal blunting
 - IV. Dilation of Renal pelvis visible dilation of ureter
 - V. massive ureteral dilation, tortuosity
Intra renal reflux
(severe hydronephrosis)

Dx. - VCUgI
- Renal scan (size)
- creatinine

Tx - Medical (Prophylactic antibiotics)
↓ infections Prevent UTI
↓ Fails ✖
Surgery

UTI - Recurrent -
(Pyelonephritis)

Scarring / Renal injury
↓
Reflux nephropathy
↓
Renin mediated hypertension
Renal insufficiency
ESRD