Flow Chart: Prenatal Urinary Tract Dilatation / Prenatal Hydronephrosis

SECOND TRIMESTER DILATATION
pelvic diameter > 4 mm, follow up US in third trimester

THIRD TRIMESTER DILATATION
pelvic diameter > 7 mm or any dilatation with calyceal dilatation
start antibacterial prophylaxis after birth

isolated (unilateral) pelvic dilatation

bilateral dilatation
pelvic dilatation with ureteral dilatation
megacystis, oligohydramnion or abnormal bladder

US at 5-9 days of age

7-10 mm
US at 4 weeks of age
stop antibiotics
if calyceal dilatation is present,
proceed as in > 10 mm

> 10 mm

postnatal US and MCUG
serum creatinin
early MAG-3-renal scan

US at 3 month

normal
STOP
pelvic and calyceal dilatation

Follow FLOW CHART
UPJ OBSTRUCTION

Follow FLOW CHART
POM, PUV, VUR

1 in girls with pelvic and unilateral ureteral dilatation the MCUG can be delayed till 4 weeks of age during which time prophylactic antibiotics are continued

Abbreviations
US ultrasonography
POM primary obstructive ureter
PUV posterior urethral valves
VUR vesicoureteral reflux
UPJ ureteropelvic junction

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