Flow Chart: Ureteropelvic Junction Obstruction (UPJO)

THIRD TRIMESTER DILATATION
pelvic diameter > 7 mm or any dilatation with calyceal dilatation without ureteral dilatation
start antibacterial prophylaxis after birth

♂ unilateral, ♀ unil- and bilateral

US at 5-9 days of age

pelvic dilatation < 15 mm
and no calyceal dilatation
and parenchyma > 8 mm
and normal echogenicity
stop antibacterial prophylaxis

US at 4-6 weeks of age
equal dilatation

normal
STOP

progressive dilatation

US at 3-6 months of age

no obstruction

US at 3 months of age

MAG-3-renal scan at 3-6 months of age

improved

equal

worsened

individual follow-up

♂ bilateral

postnatal US and MCUG
serum creatinin

FLOW CHART PUV

pelvic dilatation > 15 mm
or calyceal dilatation
or parenchyma < 8 mm
or increased echogenicity
continue antibacterial prophylaxis

US at 4-6 weeks of age

US and MAG-3-renal scan
at 4-6 weeks of age

DRF > 45 %

DRF 15-45 %

DRF < 15 %

MCUG (optional)

nephrostomy

for 1 month
(optional)

pyeloplasty

DRF > 10 %

DRF < 10 %

nephrectomy

Abbreviations
US ultrasonography
DRF differential renal function
PUV posterior urethral valves

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