Imaging of Primary Ureteropelvic Junction Obstruction

Thesis

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in Radiodiagnosis

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Abstract

Gray-scale ultrasound and Doppler flow study were done for all patients while CT urography and CT angiography for most of them. MRU, MRA and/or radionuclide scintigraphy (RNS) studies were performed for some of the patients.

Key word

Ureteropelvic

Radiodiagnosis

Obstruction

RNS

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List of Abbreviations

+ve	*positive*
-ve	*negative*
%	*percentage*
&	*and*
2D	*two dimensional*
3D	*three dimensional*
AP	*anteroposterior*
APD	*anteroposterior diameter*
CDI	*color Doppler sonographic imaging*
cm	*centimeter*
Cr	*creatinine*
CT	*Computed Tomography*
CTA	*Computed Tomography Angiography*
CTU	*Computed Tomography Urography*
dMRI	*dynamic Magnetic resonance imaging*
DSA	*digital subtraction angiography*
DTPA	*diethylenetriamine pentaacetic acid*
EDV	*End diastolic velocity*
EF	*ejection fraction*
EPI	*echoplanar imaging*
et al.	*and colleagues*
Fig.	*figure*
FOV	*Field of view*
Gd-DTPA	*gadolinium diethylenetriamine pentaacetic acid*
GFR	*glomerular filtration rate*

GRE	*gradient recalled echo*
hr	*hour*
HU	*Hounsfield unit*
IV	*intravenous*
IVP	*intravenous pyelography*
IVU	*intravenous urography*
Kg	*kilogram*
MAG3	*mercaptoacetyltriglycine*
MCDK	*multicystic dysplastic kidney*
MDCT	*multidetector Computed Tomography*
MIP	*maximum intensity projection*
mg	*milligram*
ml	*milliliter*
mm	*millimeter*
MHz	*Mega Hertz*
MPR	*Multiplanar Reformate*
MRA	*Magnetic resonance angiography*
MRI	*Magnetic resonance imaging*
MRU	*Magnetic resonance urography*
ms	*milliseconds*
MSCT	*multislice Computed Tomography*
MTT	*Mean transit time*
No.	*number*
PC	*phase contrast*
PCS	*pelvicalyceal system*
PSV	*peak systolic velocity*
PUJ	*pelviureteric junction*

PUJO	*pelviureteric junction obstruction*
RARE	*rapid acquisition with relaxation enhancement*
RI	*Resistivity index*
RNS	*radionuclide scintigraphy*
sCr	*serum creatinine*
sec	*second*
SFU	*Society of Fetal Urology*
STIR	*short time inversion recovery*
T	*Tesla*
T 1/2	*half time of the elimination phase*
T1WI	*T1 weighted image*
T2WI	*T2 weighted image*
Tc	*technetium*
TE	*time of echo*
TR	*time of repetition*
UPJ	*ureteropelvic junction*
UPJO	*ureteropelvic junction obstructio*
US	*ultrasound*
UTI	*urinary tract infection*
VATER	*vertebral, anorectal, tracheal, esophageal, and renal abnormalities*
vs	*versus*
VUR	*vesicoureteric reflux*

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