

Patient Name	: Mr.MUKESH KUMAR TIWARI	Visit No	: CHA250043107
Age/Gender	: 39 Y/M	Registration ON	: 10/Mar/2025 01:37PM
Lab No	: 10140402	Sample Collected ON	: 10/Mar/2025 01:37PM
Referred By	: Dr.L	Sample Received ON	:
Refer Lab/Hosp	: CHARAK NA	Report Generated ON	: 10/Mar/2025 04:29PM

ULTRASOUND STUDY OF WHOLE ABDOMEN

Compromised assessment due to excessive bowel gases.

- **Liver** is moderately enlarged in size (~182mm) and shows increased echotexture of liver parenchyma. No intrahepatic biliary radicle dilatation is seen. No space occupying lesion is seen. Hepatic veins and IVC are seen normally.
- **Gall bladder** is normal in size and shows anechoic lumen. No calculus/mass lesion is seen. GB walls are not thickened.
- **Portal vein** Portal vein is normal at porta.
- **Pancreas, retroperitoneum & porta:** are obscured by bowel gases.
- **Spleen** is normal in size and shows homogenous echotexture of parenchyma. No space occupying lesion is seen.
- No ascites is seen.
- **Both kidneys** are normal in size and position. No hydronephrosis is seen. No calculus or mass lesion is seen. Cortico-medullary differentiation is well maintained. Parenchymal thickness is normal. No scarring is seen. Right kidney measures 99 x 58 mm in size. Left kidney measures 103 x 57 mm in size.
- **Urinary bladder** is normal in contour with anechoic lumen. No calculus or mass lesion is seen. UB walls are not thickened.
- **Prostate** is normal in size, measures 36 x 30 x 28 mm with weight of 16gms and shows homogenous echotexture of parenchyma.

IMPRESSION:

- MODERATE HEPATOMEGALY WITH FATTY INFILTRATION OF LIVER GRADE-I.

Clinical correlation is necessary.

[DR. JAYENDRA KUMAR, MD]

Transcribed by Gausiya



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RENAL DOPPLER STUDY

Compromised assessment due to patient's body habitus, excessive bowel gases and poor breath holding.

Renal Doppler

- Gray scale imaging of the kidneys was done follow by analysis of renal vasculature in colour Doppler.

Gray Scale

- Both kidneys are normal in size, shape & position. Right kidney measures 99.3 x 58.3 mm. Left kidney measures 103.9 x 57.0 mm. Bilateral renal cortical echogenicity appears normal. Cortico-medullary differentiation is maintained. No obvious calculus is seen. No hydronephrosis is seen.

Colour and pulsed Doppler study

Bilateral main renal arteries could not be very well visualized from origin upto renal hila; however, renal arteries at hila and their segmental branches show maintained colour flow.

- Doppler parameters are as follows:-

	RIGHT			LEFT		
	PSV (cm/s)	RI	AT (sec)	PSV (cm/s)	RI	AT (sec)
Renal artery at hilum	102.4	0.64	0.04	107.1	0.64	0.05
Upper polar Segmental artery	38.9	0.58	0.03	28.3	0.58	0.04
Mid polar Segmental artery	31.5	0.60	0.05	25.8	0.61	0.04
Lower polar Segmental artery	29.7	0.56	0.04	32.4	0.59	0.04

OPINION:

- **NO OBVIOUS INDIRECT EVIDENCE OF SIGNIFICANT RENAL ARTERY STENOSIS.**

Note: The above assessment is based on indirect method of analysis of doppler parameters namely AT (acceleration time) and RI (resistive index) in segmental branches alone. Direct visualization of main renal arteries was not a part of this study. Possibility of renal artery stenosis cannot be ruled out based on indirect assessment of doppler parameters alone due to low negative predictive value.

CT renal angiography is gold standard investigation to rule out possibility of renal artery stenosis.

Clinical correlation is necessary.

[DR. JAYENDRA K. ARYA, MD]



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