Charak dhar DIAGNOSTICS Pvt. Ltd.

292/05, Tulsidas Marg, Basement Chowk, Lucknow-226 003
Phone : 0522-4062223, 9305548277, 8400888844
9415577933, 9336154100, **Tollfree No.**: 8688360360
E-mail : charak1984@gmail.com
CMO Reg. No. RMEE 2445133
NABL Reg. No. MC-2491
Certificate No. MIS-2023-0218

Patient Name	: Mr.RAM MILAN	Visit No	: CHA250042999
Age/Gender	: 47 Y/M	Registration ON	: 10/Mar/2025 12:49PM
Lab No	**: 10140294**	Sample Collected ON	: 10/Mar/2025 12:49PM
Referred By	: Dr.DURGESH PUSHKAR	Sample Received ON	:
Refer Lab/Hosp	: CHARAK NA	Report Generated ON	: 10/Mar/2025 02:39PM

PR.

RENAL DOPPLER STUDY

Compromised assessment due to excessive bowel gases, inadequate breath holding and co-existing renal parenchymal disease.

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 103.6 x 45.0 mm. Left kidney measures 120.3 x 52.7 mm. **Bilateral renal cortical echogenicity is raised with blurring of cortico-medullary differentiation at places.** 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	56.5	**0.85**	0.04	64.3	**0.83**	0.04
Upper polar Segmental artery	27.8	**0.86**	0.03	17.2	**0.83**	0.03
Mid polar Segmental artery	32.3	**0.90**	0.03	22.5	**0.84**	0.03
Lower polar Segmental artery	11.6	**0.84**	0.02	15.4	**0.81**	0.04

OPINION:

- **RAISED BILATERAL RENAL PARENCHYMAL ECHOGENICITY WITH BLURRING OF CORTICO-MEDULLARY DIFFERENTIATION AT PLACES – RENAL PANREHCYMAL DISEASE.**
- **RAISED VALUES OF RESISTIVE INDEX (RI≥0.75) IN BILATERAL RENAL VESSELS AS DESCRIBED – LIKELY DUE TO RENAL PARENCHYMAL DISEASE.**
- **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. Co-existing renal parenchymal disease can alter the values of these parameters. Possibility of renal artery stenosis cannot be ruled out based on indirect assessment of doppler parameters***

Charak dhar DIAGNOSTICS Pvt. Ltd.

292/05, Tulsidas Marg, Basement Chowk, Lucknow-226 003
Phone : 0522-4062223, 9305548277, 8400888844
9415577933, 9336154100, **Tollfree No.**: 8688360360
E-mail : charak1984@gmail.com
CMO Reg. No. RMEE 2445133
NABL Reg. No. MC-2491
Certificate No. MIS-2023-0218

Patient Name	: Mr.RAM MILAN	Visit No	: CHA250042999
Age/Gender	: 47 Y/M	Registration ON	: 10/Mar/2025 12:49PM
Lab No	**: 10140294**	Sample Collected ON	: 10/Mar/2025 12:49PM
Referred By	: Dr.DURGESH PUSHKAR	Sample Received ON	:
Refer Lab/Hosp	: CHARAK NA	Report Generated ON	: 10/Mar/2025 02:39PM

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]

Transcribed By: RACHNA

***** End Of Report *****