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|----------------|-------------------|---------------------|-----------------------|
| Patient Name | : Ms.HASEEN JAHAN | Visit No | : CHA250043705 |
| Age/Gender | : 49 Y/F | Registration ON | : 11/Mar/2025 11:17AM |
| Lab No | : 10141000 | Sample Collected ON | : 11/Mar/2025 11:17AM |
| Referred By | : Dr.KGMU | Sample Received ON | : |
| Refer Lab/Hosp | : CHARAK NA | Report Generated ON | : 11/Mar/2025 01:27PM |

COLOUR DOPPLER STUDY OF BILATERAL LOWER LIMB ARTERIES

- Diffuse atherosclerotic changes are seen involving visualized parts of bilateral lower limb arteries causing varying degrees of luminal narrowing (right>left); predominantly involving distal arterial system with maintained color flow.
- There is moderate to marked luminal narrowing of distal segment of right superficial femoral, popliteal, anterior & posterior tibial and dorsalis pedis arteries.
- Right popliteal, anterior & posterior tibial and dorsalis pedis arteries show monophasic spectral waveform.
- Right common femoral artery shows triphasic spectral waveform with spectral broadening.
- Right superficial femoral artery shows biphasic spectral waveform.
- Left common femoral, superficial femoral, popliteal, anterior tibial and posterior tibial arteries show triphasic spectral waveform with spectral broadening.
- Left dorsalis pedis artery shows biphasic spectral waveform.

Colour Doppler study shows following indices-

| | FLOW VELOCITY RIGHT | WAVE PATTERN | FLOW VELOCITY LEFT | WAVE PATTERN |
|-------------------------------|------------------------|--|-----------------------|---|
| Common femoral artery | 117 cm/sec | Triphasic with spectral waveform | 112 cm/sec | Triphasic with spectral waveform |
| Superficial femoral artery | 97 cm/sec | Biphasic | 126 cm/sec | Triphasic with spectral waveform |
| Popliteal artery | 47 cm/sec | Monophasic | 86 cm/sec | Triphasic with spectral waveform |
| Anterior tibial artery | 16 cm/sec | Monophasic | 50 cm/sec | Triphasic with spectral waveform |
| Posterior tibial artery | 30 cm/sec | Monophasic | 48 cm/sec | Triphasic with spectral waveform |
| Dorsal paedis artery | 8.4 cm/sec | Monophasic | 31 cm/sec | Biphasic |



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IMPRESSION:

- **DIFFUSE GENERALIZED ATHEROSCLEROTIC CHANGES IN BILATERAL LOWER LIMB ARTERIES CAUSING VARYING DEGREES OF LUMINAL NARROWING (RIGHT > LEFT) PREDOMINANTLY INVOLVING DISTAL ARTERIAL SYSTEM WITH HEMODYNAMIC CHANGES AS DESCRIBED – POSSIBILITY OF RIGHT LOWER LIMB PERIPHERAL ARTERIAL INSUFFICIENCY CANNOT BE RULED OUT.**

Clinical correlation is necessary.

[DR. JAYENDRA K. ARYA, MD]

*** End Of Report ***

CHARAK

