Patient Name: Mr. B. A. SIVARAMAKRISHNAN **MRD#:** 62124
Date of Birth: 16/03/1948 **Sex:** Male
Visit Code: OP0168
Created Date: 27/11/2025
Referred By:
Dr. KOTHURKAR ADVAIT

MR NON-CONTRAST PERIPHERAL ANGIOGRAPHY

MR non-contrast angiogram of the lower limbs. MIP reformations were also obtained. Non contrast CT correlation was also done.

Clinical profile : left foot non healing ulcer. Previous MR angiography dated 15/01/2025 is available for comparison. H/o left popliteal balloon angioplasty.

- Aorta shows mild luminal narrowing, predominantly in infrarenal segment with normal flow related signals.

- Right common iliac artery shows severe (90-95%) narrowing in proximal segment close to its origin, for a length of 1.7 cm with reduced flow related signals. Rest of the artery appears mildly narrowed in caliber with normal flow related signals.
-Left common iliac artery appears moderate (30-40%) narrowed in caliber with normal flow related signals.

-Right internal iliac artery shows absent flow related signals from its origin for a length of 6-7 mm- likely occluded. Faint distal patchy reformation.
-Left internal iliac artery shows severe short segment narrowing with near complete - absent flow related signals in the proximal most segment at its origin, for a length of 5 mm. Rest of of the artery shows good reformation.

- Bilateral external iliac arteries appear mild to moderately (40-50%) narrowed in calibre with normal flow related signals.

LEFT LOWER LIMB -

Extensive calcified atherosclerotic changes are noted in all leg arteries causing moderate to severe luminal narrowing.

- Common femoral artery - Moderate (30-40 %) luminal narrowing with normal flow related signal intensity on MR angiogram.
- Profunda femoris and Superficial femoral artery - Moderate (40-50%) luminal narrowing with normal flow related signal intensity on MR angiogram.
- Popliteal artery- Moderate (50-60%) luminal narrowing with normal flow related signal intensity on MR angiogram.

- Tibioperoneal trunk- severe (90-95 %) luminal narrowing with patchy flow related signal intensity and few areas of tandem stenosis.
- Posterior tibial artery in leg- Absent flow related signals in proximal segment for a length of ~ 3 cm from origin , with reduced flow related signals with multiple areas of tandem stenosis in rest of artery.
- Posterior tibial artery in foot - patchy flow related signals with multiple areas of tandem stenosis.
- Peroneal artery- show normal flow related signals on MR angiogram.

- Anterior tibial artery- Absent flow related signals for a short segment measuring 2.5 cm in its proximal segment form origin. Patchy reformation of proximal and mid segment of the artery with multiple areas of tandem stenosis. Absent flow related signal in distal segment.
- Dorsalis pedis artery- absent flow related signals in its entire course.
Few collaterals are seen in posterolateral aspect of calf region supplying the foot.

RIGHT LOWER LIMB -

Extensive calcified atherosclerotic changes are noted in all leg arteries.

- Common femoral artery - Mild (20-30 %) luminal narrowing with normal flow related signal intensity on MR angiogram.
- Profunda femoris and Superficial femoral artery - Moderate (40-50%) luminal narrowing with normal flow related signal intensity on MR angiogram.
- Popliteal artery- Moderate (70-80 %) luminal narrowing with normal flow related signal intensity on MR angiogram.

- Tibioperoneal trunk- Moderate (70-80 %) luminal narrowing with normal flow related signal intensity on MR angiogram.
- Posterior tibial artery in leg- reduced flow related signals in proximal and mid segments with areas of tandem stenosis. Faint flow related signal intensities involving the distal segment.
- Posterior tibial artery in foot - Faint flow related signal intensity is noted.
- Peroneal artery- Tandem stenosis noted in proximal and mid segments with normal flow related signals with absent flow in the distal most segment.

- Anterior tibial artery- absent flow related signals seen in the distal segment. Proximal and mid segment shows normal flow related signals with areas of tandem stenosis. Faint reformation of artery is seen in distal most leg upto ankle by collaterals.
- Dorsalis pedis artery- absent flow related signals in its entire length.

IMPRESSION:
No thrombosis/ floating component.
As compared to previous MR angiography dated 15/01/2025 - No significant interval change.

- Mild luminal narrowing in aorta, predominantly in infrarenal segment.
- Severe narrowing in the proximal segment close to the origin of right common iliac artery with reduced flow related signals.
- Moderate narrowing involving left common iliac artery.
- Faint to absent flow related signal intensity with severe luminal narrowing in bilateral internal iliac arteries as described above.
- Mild to moderate luminal narrowing with normal flow related signal intensity in bilateral external iliac arteries.

Extensive calcified atherosclerotic changes are noted in all leg arteries.

LEFT LOWER LIMB:
- Common femoral, profunda femoris, superficial femoral and popliteal arteries - moderate luminal narrowing with normal flow related signal intensity.
- Tibioperoneal trunk - severe luminal narrowing with patchy flow related signal intensity and few areas of tandem stenosis.
- Posterior tibial artery - Absent flow related signal intensity in the proximal segment. Reduced flow related signal intensity and multiple areas of tandem stenosis involving the rest of the artery.
- Anterior tibial artery - Absent flow related signal intensity line in the proximal segment. Patchy reformation of proximal and mid segment with multiple areas of tandem stenosis. Absent flow related signal in the distal segment of the artery.
- Dorsalis pedis artery - Absent flow related signal intensity involving the entire course.
- Few collaterals in the posterolateral aspect of calf region supplying the foot.

RIGHT LOWER LIMB:

- Common femoral artery - Mild luminal narrowing with normal flow related signal intensity.
- Superficial femoral, profunda femoris, popliteal arteries and tibioperoneal trunk - Moderate luminal narrowing with normal flow related signal intensity.
- Posterior tibial artery - Reduced flow related signal intensity in proximal and mid segments. Distal segment of PTA in leg and in foot shows faint flow related signal intensity.
- Peroneal artery - Areas on tandem stenosis involving proximal and mid segments with normal flow related signals. Absent flow related signal intensity involving the distal most segment.
- Anterior tibial artery - Areas of tandem stenosis involving the proximal and mid segments. Absent flow related signal intensity in the distal segment's followed by faint re-formation in the distal most part by collaterals.
- Dorsalis pedis artery - Absent flow related signal intensity in its entire course.

Signed By: DR. DESHMUKH SONALI