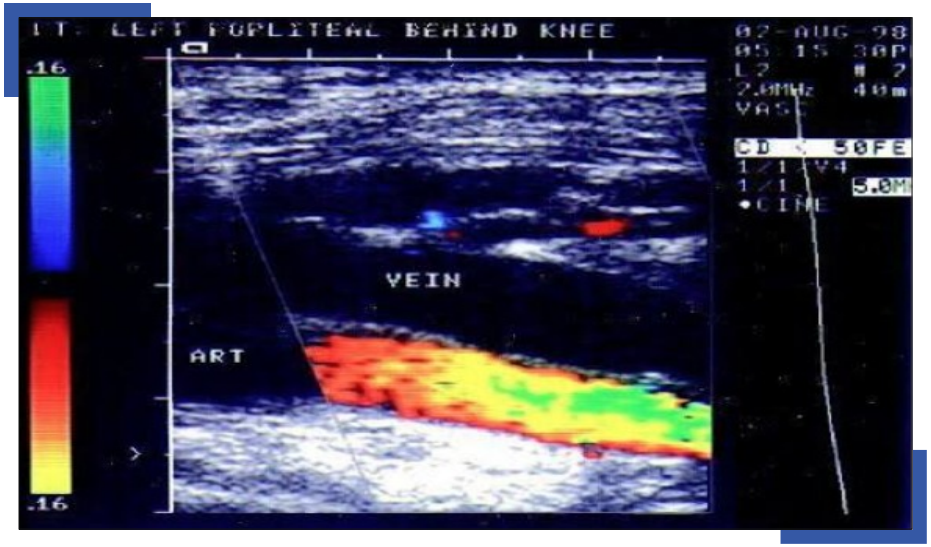
MOLECULAR
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Understanding
Colour Doppler - Both Lower Limbs - (Artery & Vein)



What is Colour Doppler - Both Lower Limbs - (Artery & Vein)

Colour Doppler of Both Lower Limbs – Arterial and Venous is a non-invasive vascular ultrasound examination to help evaluate the arteries and veins of both lower limbs. It is a combination of conventional ultrasound and Colour Doppler and spectral Doppler techniques, providing information about the direction, velocity, and other characteristics of blood flow.

Why is it Performed?

When symptoms or clinical concern exist relative to blood flow in both legs, this examination may be performed. It can aid in assessing poor arterial blood flow, artery constriction or blockage, and inadequacies in venous return, blood clots, changes in skin colour or temperature that may be associated with vascular abnormalities, and other problems in blood flow.

Preparation

- Wear loose and comfortable clothing that allows easy access to both legs.
- Inform the medical team about current medicines and relevant medical conditions.
- Bring previous Doppler, ultrasound, CT angiography, or other vascular reports.
- Inform the sonologist about any previous vascular surgery or procedures.

Procedure

The patient is lying on an examination table for comfort; Ultrasound gel is applied to both lower limbs. The ultrasound probe is moved very carefully over various sections of the legs to view the arteries and veins. The colour Doppler and the spectral Doppler techniques are used to evaluate blood flow, velocity, direction, and other vascular characteristics.

Important Instructions

- Follow all instructions provided by the sonologist or medical team.
- Wear comfortable clothing that allows easy access to both legs.
- Remain relaxed and follow positioning instructions during the examination.
- Inform the sonologist if you experience significant pain or discomfort.
- Bring previous vascular imaging reports when available.
- Inform the medical team about previous vascular surgery, procedures, or treatment.

Safety Precautions

Colour Doppler ultrasound uses sound waves and does not use ionising radiation. It is considered safe when performed by trained professionals, and there is no contrast or injection involved in the examination; it is considered to be non-invasive. The examination is performed with attention to patient safety and comfort during the scan, where appropriate imaging techniques are used to examine blood flow in arteries and veins.

When to Seek Medical Attention?

If you suddenly or intensely feel pain in the leg, notice a large swelling or a marked change in skin colour or temperature, and feel numbness or weakness, get immediate medical help. Sudden severe symptoms require prompt medical evaluation. At Molecular Diagnostics and Therapy, Colour Doppler of Both Lower Limbs - Arterial and Venous can be performed using a vascular ultrasound protocol, under medical supervision, with great attention to patient safety, assessment of blood flow, and comfort.