MOLECULAR
DIAGNOSTICS AND THERAPY
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Understanding
Colour Doppler - Both Lower Limbs Venous



What is Colour Doppler - Both Lower Limbs Venous?

Lower Limbs Venous Colour Doppler is a non-invasive ultrasound examination that inspects the veins of both lower limbs. It is a combination of traditional ultrasound with Colour Doppler and Spectral Doppler to evaluate the structure of veins and the blood flow of the veins (direction and characteristics) or venous circulation. The test can be used to evaluate vein issues in both legs.

Why is it Performed?

This test could be performed when clinical signs and/or symptoms are present to examine venous circulation in the legs. It may help to assess deep vein thrombosis, venous insufficiency, abnormal venous reflux, venous obstruction, swelling, pain, heaviness, varicose veins, and abnormalities of venous blood flow.

Preparation

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

Procedure

The patient lies on an examination table to be as comfortable as possible; a gel is placed on the legs. The ultrasound probe is scanned on both legs throughout the body to determine the condition of the veins. They are examined using color Doppler and spectral Doppler, which assess blood flow, direction, velocity, and more. The ultrasound probe can be compressed to assess the veins' expandability, if needed. Venous examination may be performed on the thigh, knee, calf, and ankle depending on the clinical need.

Important Instructions

- Follow all instructions provided by the sonologist or medical team.
- Wear comfortable clothing that allows easy access to both lower limbs.
- 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 uses sound waves and no ionising radiation. However, if the procedure for the use of ultrasound is adhered to, ultrasound is considered safe when used by trained sonographers. Normally, no injections or other contrast material are required for the exam, and it is non-invasive.

When to Seek Medical Attention?

If the chest pain worsens and/or one of the following occurs, get medical help, because this can be a sign of a pulmonary embolus: difficulty breathing, coughing up blood, feeling dizzy or faint. Colour Doppler of Both Lower Limbs Venous is carried out at Molecular Diagnostics and Therapy, a facility with specialised vascular ultrasound expertise under outstanding supervision, which is helpful for the patients' comfort and safety.