MOLECULAR
DIAGNOSTICS AND THERAPY
...where technology meets patient care

Ghaziabad: Plot No 14 & 15, Block P, Sector 23, Sanjay Nagar, Ghaziabad
Near ALT Bus Stand, Phone No.: +91-9217244110
info@molecularit.com www.molecularit.com

MOLECULAR
DIAGNOSTICS AND THERAPY
...where technology meets patient care



Understanding
Colour Doppler - Abdomen



What is Colour Doppler - Abdomen?

Colour Doppler Abdomen is an ultrasound examination that does not involve touching the abdomen, which aids in the study of blood flow through the large blood vessels and any chosen abdominal organs. It can fuse conventional ultrasound with Colour Doppler and spectral Doppler to gain information regarding the structure, direction, velocity, and characteristics of blood flow.

Why is it Performed?

The exam could be done when symptoms or clinical problems exist related to blood flow in the abdomen. It may aid in assessing abnormalities of the blood vessels in the abdomen such as portal veins, hepatic veins, hepatic artery, abdominal aorta, and other major veins. It can be used to check for narrowing or blockage. The results are used to determine whether the examination assesses blood flow and vascular abnormalities within the abdomen.

Preparation

- Fasting for approximately 6–8 hours may be advised.
- Take regular medicines only as advised by your doctor or the imaging centre.
- Wear comfortable clothing that allows easy access to the abdomen.
- Bring previous ultrasound, Doppler, CT, MRI, or other relevant reports.

Procedure

The patient is comfortably positioned on an examination table with ultrasound gel on the abdomen. Images of the location of the organs and blood vessels are obtained as the sonologist places the ultrasound probe over different parts of the abdomen. Colour Doppler and spectral Doppler are used to measure and evaluate the direction, velocity, and flow pattern of blood flow. The patient may have to move into different positions and hold their breath for a split second to get better images. The method is not particularly painful and does not use ionising radiation.

Important Instructions

- Follow the fasting instructions provided before the examination.
- Take medicines only according to medical advice.
- Remain relaxed and follow positioning instructions during the scan.
- Follow breathing or breath-holding instructions when requested.
- Inform the sonologist about any significant abdominal symptoms or previous vascular procedures.
- Bring previous imaging and relevant medical reports when available.

Safety Precautions

Colour Doppler is a non-radiological technique that uses sound waves. It is generally safe when performed by trained operators with proper ultrasound techniques. The examination is not invasive, and no shots or X-rays are generally needed. Appropriate scanning techniques are used to ensure quality information is captured, with patient comfort being maintained, regarding abdominal blood flow.

When to Seek Medical Attention?

Get medical attention right away if you get severe or sudden abdominal pain, fainting, large abdominal swelling, vomiting blood, or blood or black stools. Colour Doppler of the Abdomen is conducted with suitable ultrasound and vascular Doppler techniques under the careful medical guidance of trained professionals at Molecular Diagnostics and Therapy, paying close and specific attention to the estimation of patients' blood flow to ensure patient safety and comfort.