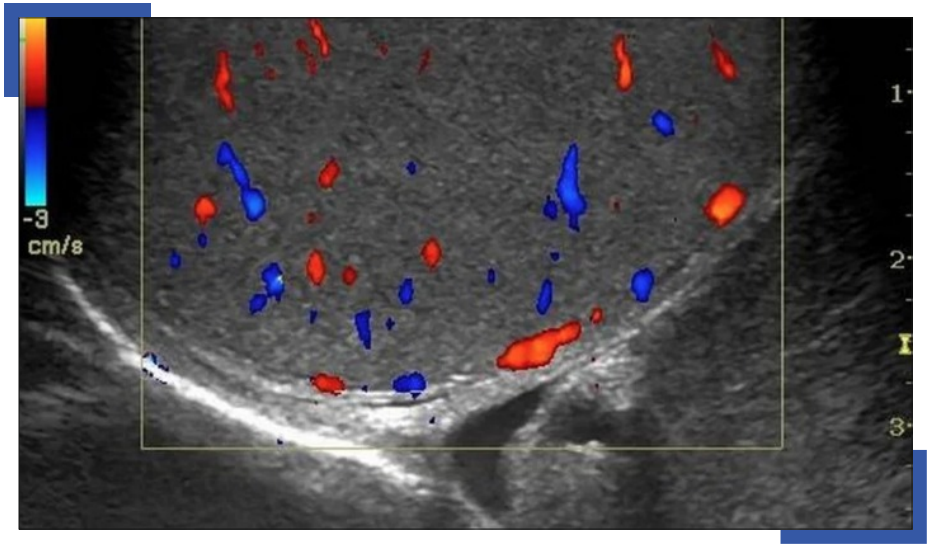
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Understanding
Colour Doppler Scrotum Scan



What is a Colour Doppler Scrotum Scan?

Colour Doppler of the Scrotum is an ultrasound scan of the scrotum that evaluates blood flow in the scrotum, testicles, and epididymis, as well as the scrotal tissues. It is a fusion of conventional ultrasound with Colour Doppler and spectral Doppler techniques to evaluate scrotal organ structure and blood flow direction, speed, and content.

Why is it Performed?

This can be done when a patient experiences symptoms or suspected problems with either the scrotum or testicles. It can be used to assess scrotal pain and swelling, tenderness, blood flow, varicocele, suspected testicular torsion, epididymal abnormalities, etc. Colour Doppler assessment is useful in special situations such as the assessment of blood flow to the testicles.

Preparation

- Usually, no special fasting is required.
- No specific bladder preparation is generally required.
- Wear comfortable clothing that allows easy access to the scrotal region.
- Inform the medical team about current medicines and relevant medical conditions.

Procedure

The patient is comfortably lying on an examination table with the scrotum properly placed for examination. The ultrasound gel is applied to the scrotal (testicular) skin, and the ultrasound probe is rubbed over each side of the scrotum. The volume of the testicles, blood flow in the epididymis, and blood flow through the scrotal tissues are checked using conventional ultrasound. Examination can include assessment of both testicles and comparing the vascularity of each. Further assessment can be conducted upon standing and during certain manoeuvres as might be needed, for example while assessing for varicocele.

Important Instructions

- Follow all instructions provided by the sonologist or medical team.
- Wear comfortable clothing that allows easy access to the scrotal region.
- Remain relaxed and follow positioning instructions during the examination.
- Inform the sonologist if you experience significant pain or discomfort.
- Bring previous scrotal ultrasound or Doppler reports when available.

Safety Precautions

Colour Doppler involves sound waves and is not damaging to the body. In general, they are a safe procedure if conducted by qualified practitioners in the appropriate manner and following ultrasound protocols. This exam is safe and usually does not involve injections or dye. Patient comfort, privacy, and appropriate scanning techniques are used to assess the scrotal structures and blood flow.

When to Seek Medical Attention?

Sudden and severe testicular or scrotal pain, particularly when associated with swelling, nausea, vomiting, or a high-riding or unusually positioned testicle, requires immediate medical evaluation. Testicular torsion is a time-sensitive condition in which prompt assessment is important. At Molecular Diagnostics and Therapy, Colour Doppler of the Scrotum is performed using appropriate ultrasound and vascular Doppler protocols under trained medical supervision, with attention to assessment of scrotal structures and blood flow, patient safety, privacy, and comfort.