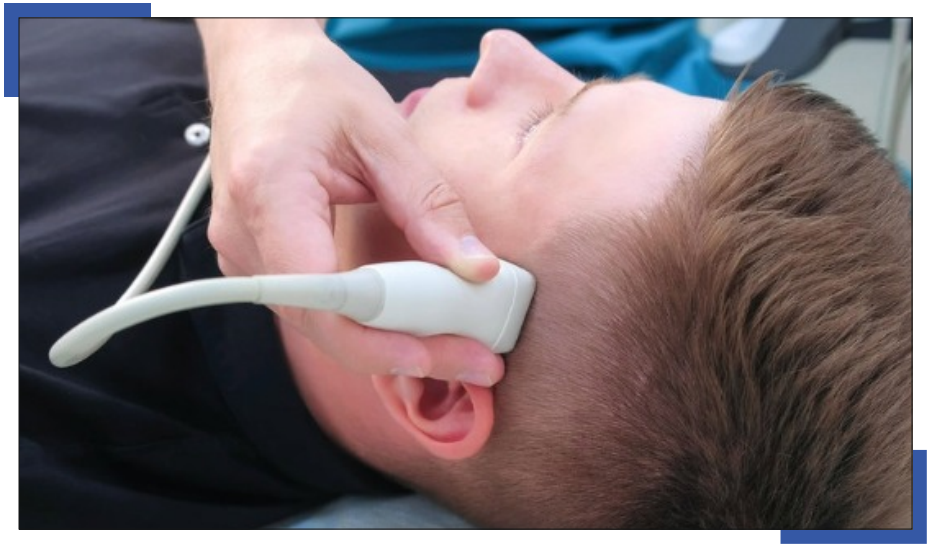
MOLECULAR
DIAGNOSTICS AND THERAPY
...where technology meets patient care

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
Ultrasound Head



What is an Ultrasound Head?

The ultrasound head is a non-invasive imaging device that visualizes the structures assessed with the help of high-frequency sound waves. In infants, the skull has not fully developed, so cranial ultrasound is used to assess the brain, ventricles, and surrounding cerebrospinal fluid. Transcranial Doppler ultrasound is used to evaluate blood flow in the major cerebral arteries.

Why is it Performed?

Ultrasound Head is done to assess structures in the brain and ventricles, and is helpful to diagnose fluid accumulation or bleeding in the brain. In Doppler assessment, the examination gives information on blood flow in the major cerebral vessels. The results are evaluated with the patient's symptoms, clinical situation, medical history, and other investigations.

Preparation

- Usually, little or no special preparation is required and bring previous imaging reports.
- Inform the medical team about relevant medical conditions or previous procedures.

Procedure

The patient is positioned comfortably for the examination. A small amount of ultrasound gel is applied to the appropriate area, and the sonologist gently places and moves the ultrasound probe over the available acoustic window. Real-time images are obtained and assessed for the required structures. If Doppler evaluation is needed, blood flow may also be assessed. The examination is generally painless and does not involve ionising radiation.

Important Instructions

- Follow all instructions provided by the sonologist or medical team.
- Keep the patient relaxed and as still as possible during imaging.
- Inform the sonologist if there is any discomfort.
- Bring previous ultrasound, CT, MRI, or other relevant reports.
- Inform the medical team about relevant medical conditions or previous procedures.

Safety Precautions

It produces sound waves that are not ionizing radiation and hence is quite safe when employed for medical reasons by skilled healthcare professionals. This procedure is performed using the right ultrasound procedures to maximize the patient's comfort and obtain diagnostic images.

When to Seek Medical Attention?

At Molecular Diagnostics and Therapy, ultrasound head imaging is conducted by trained professionals and uses suitable Ultrasound protocols, focusing on patient safety, patient comfort, and diagnostic imaging.