MOLECULAR
DIAGNOSTICS AND THERAPY
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Understanding
CECT Temporal Bone (Axial + Coronal)



What is CECT Temporal Bone (Axial + Coronal)?

CECT Temporal Bone stands for contrast-enhanced computed tomography that utilizes X-ray and iodine contrast medium for producing images of the temporal bones and tissues around the ears. The axial and coronal views of temporal bone CT provide physicians with insight into the anatomy and tissues surrounding the ears.

Why is it Performed?

The contrast-enhanced computed tomography scan is often performed to assess the condition of the temporal bones for identifying signs of infection, inflammation, mass, complication of chronic disease, or abnormality of the temporal bone and adjoining tissues. The utilization of contrast medium allows physicians to differentiate abnormal tissues from normal ones for confirming a diagnosis.

Preparation

- Inform the team if you are pregnant or think you may be pregnant.
- Report any kidney disease, thyroid condition, allergies, or previous reactions to contrast agents.
- Share details of your current medicines and relevant medical history.
- Carry previous scans and medical reports, if available.
- Follow the centre's instructions regarding food, fluids, and medicines.

Procedure

The patient is required to lie down on a table as the images of the axial and coronal sections of the temporal bone are captured by a CT scanner. The physician administers contrast medium into the patient's vein to highlight the tissues under observation. The patient may experience a momentary feeling of warmth and a metallic taste in the mouth as their body reacts to the injection. The patient must remain absolutely still during the procedure. The time taken for scanning depends on the instructions of the physician.

Important Instructions

- Inform the staff if you feel uncomfortable during the examination.
- Keep your head still while images are being captured.
- Do not stop prescribed medicines unless advised by your doctor.
- Follow the team's post-scan instructions regarding fluids and normal activities.

Safety Precautions

As the procedure utilizes X-ray and iodine contrast medium, the patient must disclose existing medical conditions to the physician, such as pregnancy, renal insufficiency, thyroid disease, and reaction to the contrast medium. The physician determines whether the patient can tolerate contrast medium. The patient must undergo a thorough medical examination to evaluate the extent of the abnormality. Molecular Diagnostics and Therapy provide support to patients who are scheduled for the procedure.

When to Seek Medical Attention?

The patient must consult a physician if a rash appears on their body after injecting contrast medium. They must seek emergency medical care if they experience difficulty breathing and swelling of the lips and face. The findings of the procedure must be interpreted by a specialist in relation to the patient's symptoms and medical history. Molecular Diagnostics and Therapy offer support to patients who are scheduled for the procedure.