

iScan

IMAGING CENTRE

Precise Diagnosis with Compassion



Multislice CT
The key to accurate diagnosis

Ultra low dose 194 slice Cardiac CT.

The SOMATOM Sensation 194 Slice CT is an Ultra lowdose MultiSlice Spiral CT Scanner with Advanced Cardiac / Coronary evaluation.

It provides unprecedented image quality with examination time of seconds , including non - invasive coronary artery evaluation.

- Ultra high resolution – Reveals even the finest vascular details with ease
- Wider applications – From routine brain to whole-body angiography
- Shorter scan time - Increased patient comfort
- Very low exposure to radiation – almost 66% less than other CT scanners
- Fastest tube rotation speed of 0.33 s with 64 slices per rotation
- High-matrix Multiplanar images in 0.4 mm reconstruction.

Pediatric Imaging

- Ultra low dose age and body-part specific protocols.
- Extremely fast non-breathhold scanning for better patient compliance.

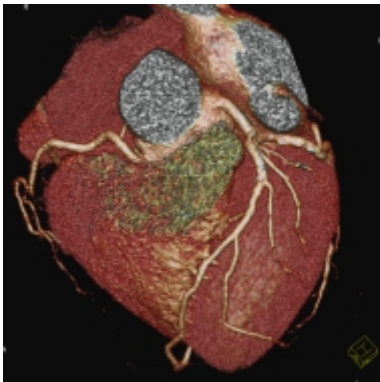
CT-guided procedures

- Accurate image-guided biopsies, injections, aspirations etc.
- Can be performed from the lungs, mediastinum, abdominal organs as well as bones/ spine among other sites.

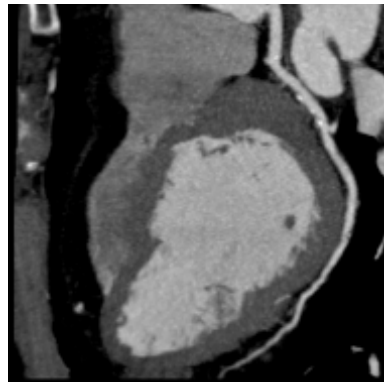
Cardiac CT / CT Coronary Angiography

- Significant breakthrough diagnostic modality.
- Non-invasive assessment of the coronary artery lumen, vessel wall plaques and coronary calcium burden measurement.
- Extremely fast, requiring 10 sec breathhold and can be performed on OPD basis.
- Excellent visualization of coronary artery stenosis with negative predictive value of close to 100%
- Calcified & soft plaque evaluation
- Excellent Stent patency and Post-CABG evaluation
- Anomalous origin of arteries and ostial lesions seen well.
- Evaluation of malignant RCA and myocardial bridge, which can be missed on conventional angiogram
- Coronary Calcium Quantification provides risk Assessment for Coronary Artery Disease (CAD).
- Excellent congenital cardiac and vascular anomaly evaluation even in neonates.
- Triple rule-out wherein patient with acute chest pain can be evaluated for myocardial infarction, aortic dissection & pulmonary embolism with a single injection of contrast in 12 seconds

Normal Cardiac VRT



Cardiac MIP



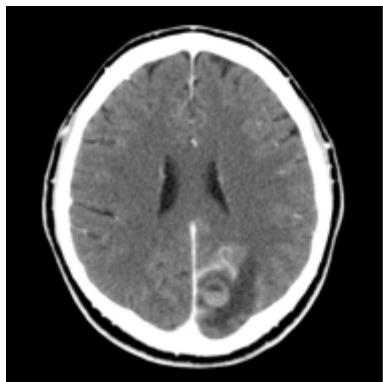
CT Neuroimaging

- Extremely fast - possible even in unco - operative patients
- Previously unseen artifact free visualization of posterior fossa, teeth & bone structures
- Multiplanar imaging, very effective in treatment planning
- Superior demonstration of inner ear structures
- Excellent panoramic and para - axial Dental reconstructions
- Excellent Angiography/ Venography images with bone removal.

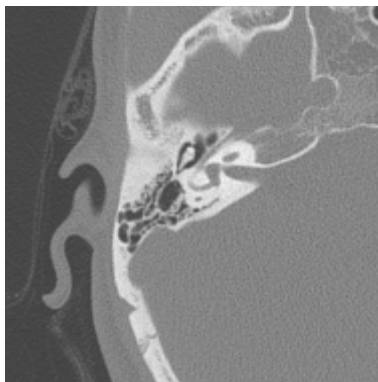
Stroke evaluation

- Early differential diagnosis of acute ischemic stroke
- Assessment of "tissue at risk"

Brain space occupying lesion



Temporal bone HRCT showing normal ossicles



CT Body Imaging

Thorax

- High-resolution multiplanar lung images depicting the finest details
- Complete visualization of bronchial tree - Virtual Bronchoscopy
- Excellent multiplanar visualization of all thoracic structures, smaller vessels & heart
- Single breath-hold coverage of the entire thorax, abdomen & pelvis

Abdomen

- Excellent multiphase liver imaging for detection and characterisation of tiny lesions.
- Complete elimination of movement artifacts due to short breath holds
- Accurate assessment of the solid organs (liver, spleen, pancreas, kidneys etc.) and bowel.
- Multiplanar images combined with virtual colonoscopy facilitates better planning for surgery

Whole Body CT

- Extremely fast
- Detection of occult primary
- Accurate Tumor Staging

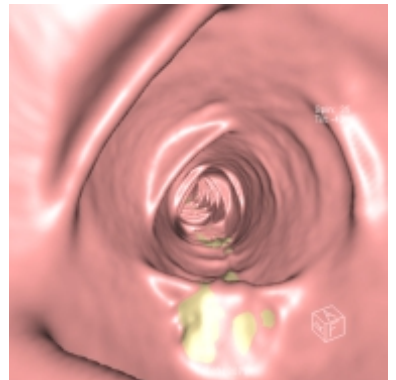
HRCT chest axial showing peripheral lung nodule



Coronal reconstruction of abdomen showing liver abscess



Virtual Colonoscopy



CT Bone Imaging

- High resolution multiplanar images of ankle & wrist joint ensures detecting miniature fractures & planning effective surgery
- Excellent 3D evaluation of bones and joints – hip, knee, shoulder, elbow, wrist, ankle, TMJ (temporomandibular joints) and other facial bones
- Artifact free Implant imaging of bones helps in post surgery monitoring
- Excellent visualization of the whole spine

3D VRT tibial fracture



MIP tibial fracture



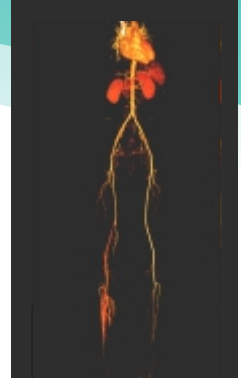
Sagittal MPR of fracture of the Talus



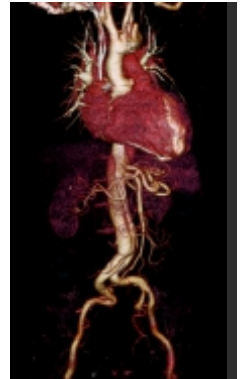
CT Angiography

- Is a Gold-standard in most cases.
- Excellent patient compliance.
- Whole body Angiography in 20 seconds
- Excellent intracranial angiograms with complete bone removal
- Make accurate treatment decision with pure arterial phase imaging & no venous contaminations
- Metal artifact free imaging helps evaluate stents & grafts
- Highest available resolution enables imaging muscle tissue detail & distal mesenteric vasculature
- Excellent visualization of aortic arch aneurysm, aortic saccular aneurysm & all aortic arch anomalies
- Magnificent imaging of all abdominal & femoral arteries with clear visualization of distal branches

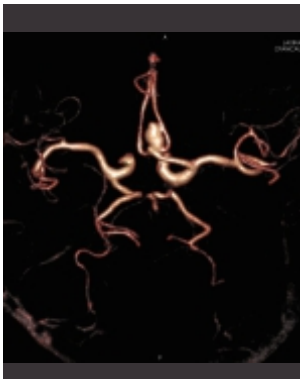
CT Angiography of Aorta and both lower limbs



Coronal VRT of Aorta showing dissection



Circle of Willis showing aneurysm



MIP of pulmonary angiogram showing right pulmonary artery thrombus



Coronal MIP of Aorta showing dissection



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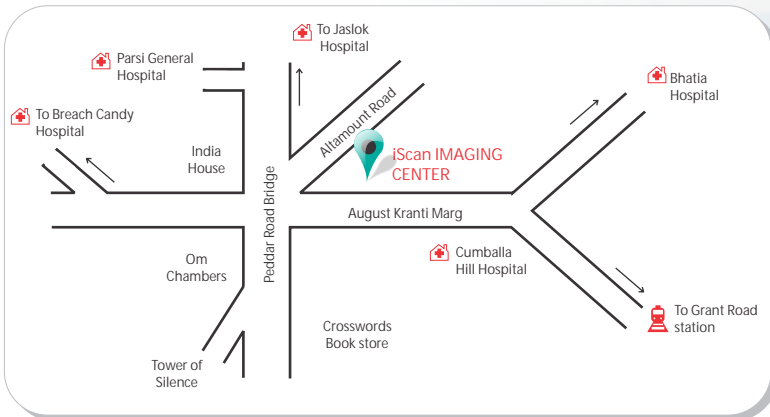


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