

10 Years of Dedicated and Selfless Service to the Humanity

CRESCENT MEDICAL CENTRE LTD.

CRESCENT HOSPITAL  
CRESCENT SCHOOL OF NURSING  
CRESCENT COLLEGE OF NURSING  
CRESCENT SPIRAL CT SCAN CENTRE



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**CRESCENT HOSPITAL ALATHUR**

**DEPARTMENT OF IMAGING SCIENCES**

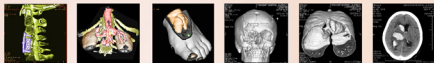
(24 Hours.)



Highspeed DXi 3D Spiral CT Scanner  
Logiq-3 Expert Colour Doppler/ Ultrasound Scanner  
300mA X-Ray, 60mA Portable X-Ray  
C-Arm Image Intensifier

**Radiologist: Dr. SAVITHA H.O., MBBS, DMRD.**





## GE HIGHSPEED DXi SPIRAL CT SCANNER

### Features:

**Speed:** Duration of study is reduced as low as 1/3rd to 1/4th to that of conventional Axial CT.

**3D Rendering:** Reconstruction of scanned data into 3D and multiplanar images with maximum and minimum intensity projections.

**Low Radiation and minimal contrast:** Minimal patient discomfort and post radiational effects.

**CT Angiography:** A promising new technique in which CT is used for study of blood flow of Heart, Brain and peripheral vessels with shorter investigation time, less invasiveness and low cost.

**Virtual Endoscopy:** Endoscopy like images of Respiratory tract and GI tracts can be generated from scan images without introducing an Endoscope.

### Diagnostic Applications of Spiral CT

CT can provide detailed cross sectional images and diagnostic information of nearly every part of body including:

1. The Head, Brain, Neck and Sinuses.
2. The Heart, Lungs and Mediastinum.
3. The Cervical, Thoracic and Lumbar Spine.
4. The upper Abdomen, Liver, Pancreas, Spleen, Kidneys and GI Tract.
5. The Pelvis, Male and Female Reproductive systems and Urinary Bladder.
6. The Upper and Lower Extremities.

### Therapeutic Applications of Spiral CT

CT Imaging is now applied to guide a number of minimally invasive microtherapy procedures:

1. Drainage of fluid collection such as Cysts, Abscesses, Lymphocele, Biloma, Hematoma etc.
2. Real time Fluoroscopy: Useful for performing CT guided biopsy. This facility of spiral CT enables accurate localisation of lesion.
3. Pain therapy: The injection of therapeutic agents into a spinal disc or space to alleviate pain.



## GE LOGIQ 3 EXPERT Ultrasound Scanner & Colour Doppler

State of the art USG Machine from General Electricals, USA.

**Smartscan:** Productivity tools to help improve image acquisition and patient throughput; it also helps to increase diagnostic confidence and exam consistency.

**Automatic optimization:** Improves image quality and productivity in both B-Mode and Doppler Studies.

**Integrated 3D:** capabilities option for quick reconstructions and surface profiles.

**Colour Doppler:** helps to evaluate blood flow through heart and major arteries and veins of the arms, legs, and neck.

### Diagnostic Studies Undertaken

**Obstetric Studies:** Prenatal diagnosis of foetal anomalies. Colour doppler to assess pathophysiology of foetal and maternal circulation.

**Studies of Internal Organs:** like Gall bladder, Stomach, Kidneys, Liver, Prostate, Urinary bladder, Ovaries, Uterus, Appendix etc.

**Study of small parts:** like Thyroid, Breast, Neck, Scrotum, Orbit etc.

**Paediatric applications:** Hydrocephalus, Ventricular studies, Periventricular leukomalacia, Intraventricular hemorrhage and Abdominal studies.

**Cardiac Applications:** Adult and Paediatric Echocardiography with blood flow and shunt abnormalities detection.

**Doppler Studies:** 1. **Cardiac Doppler** studies to diagnose cardiac output, regurgitation, stenosis and prenatal detection of abnormalities of the heart and great arteries.

2. **Peripheral doppler** studies to diagnose vascular diseases of extremities like Deep vein thrombosis, Carotid stenosis, Varicose veins, Portal veins, Renal system etc.

Probes:



35  
Convex probe for general abdominal and obstetric studies.



3S  
Cardiac Probe for adult Echo studies.



12L  
Linear probe for Thyroid, other small parts & Musculoskeletal studies.



7S  
Probe for Paediatric, Cardiac & Cranial studies.



EBC  
For TransVaginal / Rectal studies.

