

DISCLAIMERS :

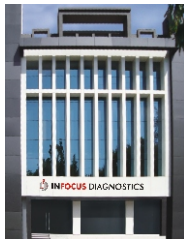
- Cardiac CT for coronary arteries is essentially a screening tool.
- The negative predictive value is greater than 98%. That means that when the study is normal, it is almost definite that there is no coronary artery disease.
- In an abnormal study, coronary CT has a tendency to overestimate or underestimate stenosis and lesions by 10 -15%, especially when there is calcium and in vessels less than 1.5mm in size.
- It may not be possible to accurately assess in- stent lumens .
- Soft plaques are best seen on CT and may not be seen on a conventional coronary angiogram.
- The functional information tends to be underestimated by 5- 10% as compared to MRI, the gold standard.

GE Revolution EVO 128 Slice CT Scanner

- 128 Slice CT Scanner
- World's almost first Adaptive CT Scanner - adapts to any patients, any size.
- Industry's fastest coverage speed, 182 Slices per Second
- Industry's fastest gantry rotation time of 0.33 Seconds
- Industry's highest isotropic spatial resolution of 18mm
- Industry's lowest radiation dose to the patient up to 68% reduction

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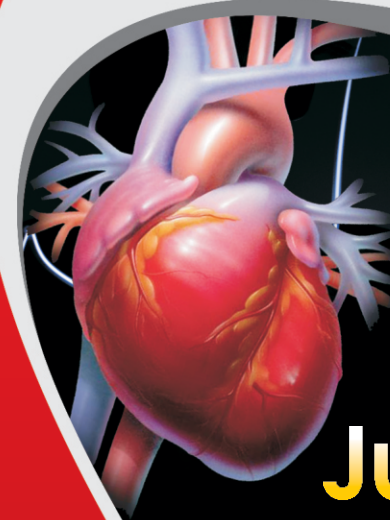
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Diagnose
HEART DISEASE
Long Before a
HEART ATTACK

GE Revolution EVO 128

128 Slice Adaptive CT Scanner
Non - Invasive Cardiac
Capability



Why is it Cardiac CT?

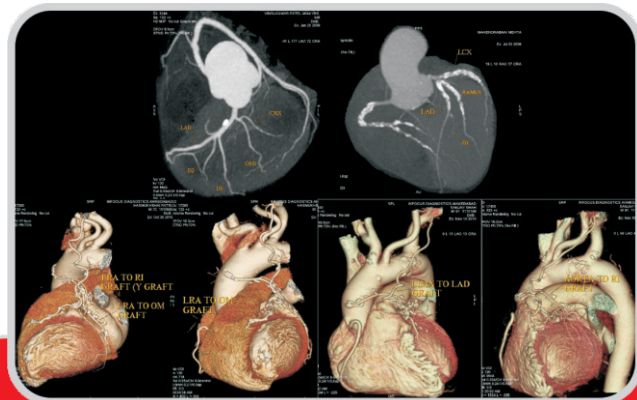
- Cardiac Computed Tomography OR Cardiac CT, is a painless test in which CT Scanner takes clear, detailed pictures of the heart to detect any abnormality.
- There are 3 parts of the Cardiac CT-
Calcium scoring
Coronary artery assessment
Functional assessment (wall motion)

Who should undergo Cardiac CT?

- 1) Patient at high risk for developing coronary artery disease - risk factors include high lipid levels, family history, smoking, diabetes, hyper tension, stressful life, sedentary lifestyle
- 2) Follow - up of known untreated cardiac disease
- 3) Post - bypass / Stent assessment

What options do I have to evaluate my coronary arteries?

- CT Angiography is the best non- invasive option to rule out any coronary artery disease.
- Even if ECG, ECHO, Stress test is relatively normal, major coronary artery disease can be present.
- Catheter angiography is ideal but is invasive, needs hospitalization .



What is unique about GE Revolution EVO VCT+ Cardiac CT Scanner - installed at IN FOCUS DIAGNOSTICS ?

- It is Fast MDCT 128 Slice Adaptive Cardiac CT Scanner. It captures 182 images slice per second which allows to “freeze” the motion of the heart and obtain images. With this scanner, CT Coronary Angiography can be performed in just 5 seconds with least radiation dose to the patient.

What preparation is involved for Cardiac CT?

- Fasting for at least 4 hours before the procedure
- Stabilization of heart rate with a beta blocker
- Advised to bring all previous cardiac related information (test reports)

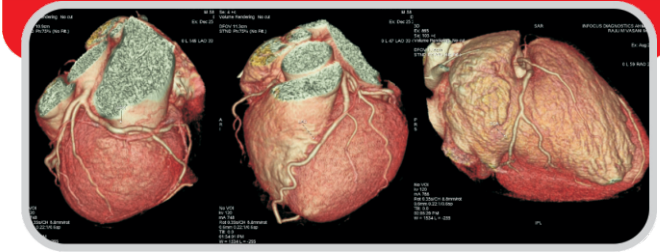
What does the procedure involve?

Once the heart rate is stabilized

- A vein is cannulated
- Breathing instructions are given so that the patient can hold his / her breath for about 5 seconds for calcium scoring study
- The “dye” is injected and the Coronary CT Angiogram study is performed
- The angiogram time is about 5 seconds.
- The entire procedure takes about 30 minutes depending on the heart rate.

Are there any dangers of CT Scanning?

- Though X-rays involve radiation, there are no dangers, in practice. In women who are pregnant, however, CT scanning should be done after weighing all the risks and benefits.



What will be the drug that I will be injected?

- The majority of patients will be injected with a “dye” which enhances the ability of CT scans to pick up abnormalities. This is routine. Only a non - ionic dye (the safest) is used. It is the same “dye” used in any routine CT Scan study & catheter angiography.

Are there any complications of the “DYE”?

- 0.5% of patients may get nausea and redness of the skin. Though severe reactions are known, these are very rare and uncommon.

Are there any other instruction?

- Please get all old X-rays, CT and MR films along with other papers, operative notes, discharge cards, etc. relevant to the case. Please come fasting for at least four hours, prior to the scan.
- There should, preferably be an accompanying friend or relative.
- Please inform the doctor, nurse or the receptionist, if you are as described below, i.e if you have a history of drug reactions, bronchial asthma, cardiac or kidney disease, etc. Kindly inform if you are pregnant.

