

64 - Slice CT

0.4 mm Isotropic Resolution

3 Rotations Per Sec

64 Slice Scanner

194 Slices Per Sec

330 ms Rotation Time

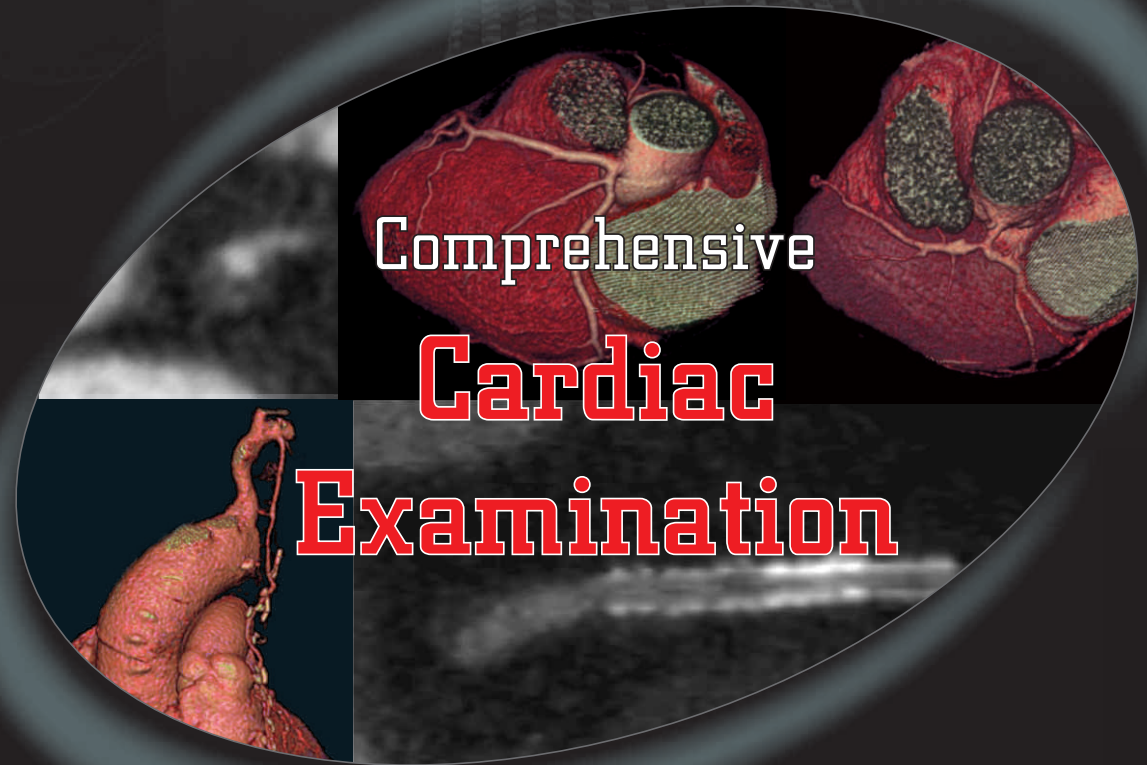


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Coronary CT Angiography & Plaque Visualization

- The negative predictive value for ruling out coronary artery disease is 98% (Fig.1)
- It shows stenotic lesions with a high degree of accuracy (Fig. 2)
- Intra-stent visualization is possible (Fig. 3)
- Soft plaque visualization is excellent (Fig. 4)
- It can be considered the gold standard for graft assessment (Fig. 5)



Fig. 1: Normal study showing the left circulation.



Fig. 2: A high-grade mid-LAD stenosis (arrow).

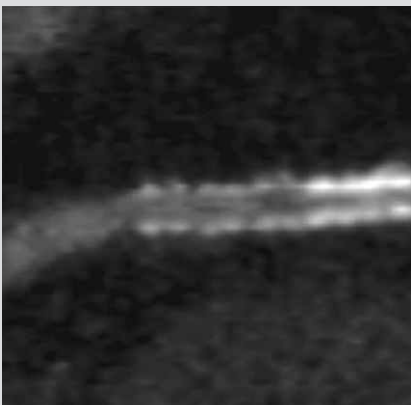


Fig. 3: Intra-stent visualization of severe intimal hyperplasia.

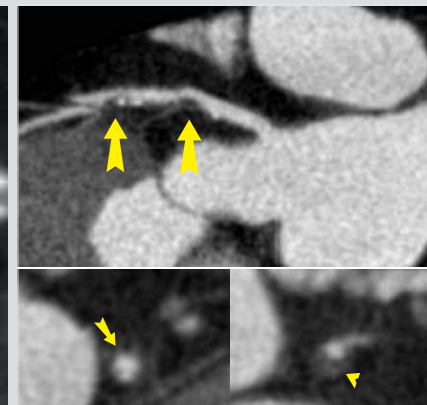


Fig. 4: The proximal LAD shows two soft tissue plaques (arrows) with minor calcification in one. Transaxial images through the proximal plaque reveal its true dimensions with the lipid core (arrowhead).

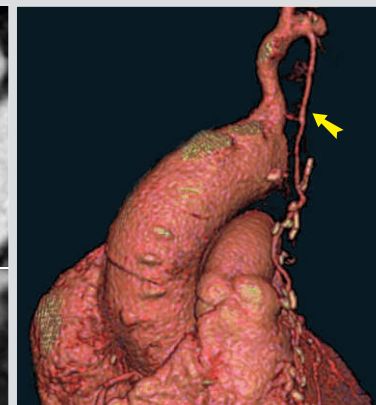


Fig. 5: Post-graft study showing a patent LIMA to LAD graft (arrow)

Coronary Ca Scoring

- Validated technique that assesses the risk of a future cardiac event
- A high calcium score implies a high risk
- A negative calcium score rules out significant coronary artery disease with high specificity

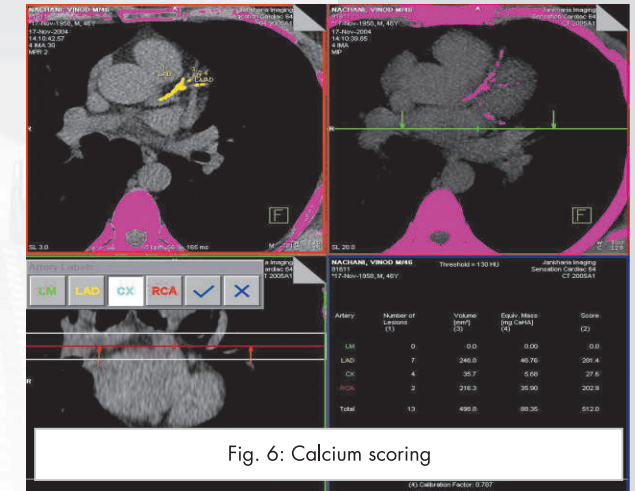


Fig. 6: Calcium scoring

Wall Motion and Function

- Segmental wall motion and global function (ejection fraction and volumes) can be assessed in the same examination

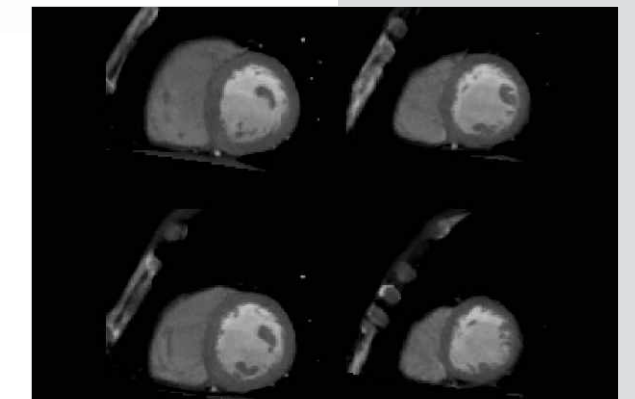


Fig. 7: Normal study for segmental wall motion and function

Valvular Diameters & Calcification

- Valvular diameters and calcification are also well seen



Fig. 8: Transaxial view through the aortic valve with calcification