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GE Healthcare

CT Clinical Case Study CT Cardiac LAD Stent Patency

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Figure 1
Reformatted Angiographic view of LAD stent.



Figure 2
Reformatted view of coronary arteries and LAD stent.

CT Clinical Case Study

CT Cardiac

LAD Stent Patency

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Patient History

A 55-year-old male with history of post-surgical Left Anterior Descending (LAD) artery stenting and trans-luminal coronary angioplasty was scheduled for a routine follow-up cardiac coronary CT Angiography exam to evaluate the status of the LAD stent.

Exam Protocol:

Scanner:	Lightspeed VCT
Scan Type:	Gated Cardiac Helical
Rotation Speed:	0.35 Seconds
Detector Configuration:	64 x 0.625
Slice Thickness:	0.625mm
Pitch:	0.2:1
SFOV:	Cardiac Large
kVp:	120
mAs:	263
Recon Mode:	SnapShot Segment
Total Scan Time:	5.8 Seconds
Coverage:	14.1cm
Average HR:	65 BPM

Contrast Injection Parameters:

Three-phase injection using a two-barrel injector:
Prep Delay = SmartPrep

- 80 ml of contrast at 5cc/sec.
- 20 ml of contrast at 3.8cc/sec.
+ 50 ml of saline at 3.8cc/sec.

Contrast Type: Omnipaque™ 350



Figure 3
Reformatted curved view demonstrating LAD stent patency.

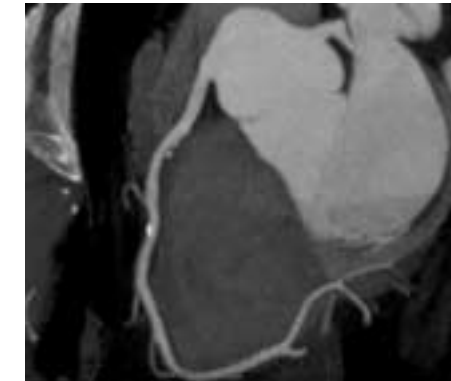


Figure 4
Reformatted curved view demonstrating mixed plaque of the right coronary artery (RCA).

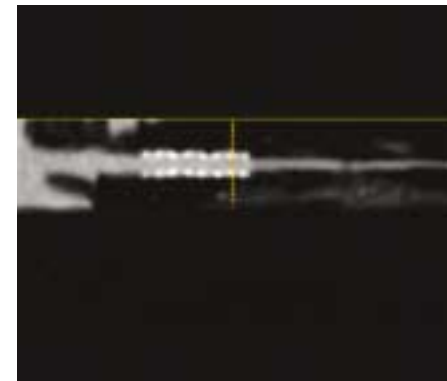


Figure 5
Lumen view demonstrating LAD stent patency.



Figure 6
2-D MIP view demonstrating LAD stent.

Clinical Findings

The coronary CT Angiography follow-up exam demonstrated normal cardiac cavities. The mitral and aortic valves were normal. The Right Coronary Artery (RCA) demonstrated with some mixed plaque; however, there was no significant stenosis noted. The Left Anterior Descending (LAD) artery was patent and the Left Circumflex (LCx) artery was normal.