

#### Procedure:

A 40-level non-contrast study was performed, followed by a single level flow study to evaluate coronary flow using Omnipaque through an intravenous catheter. A 64 detector VCT high-resolution study using a Siemens dual-source performed in the transaxial axis using a 0.625-mm slices with an injection of 130 ml of Omnipaque 350. The patient completed the procedure well. There were no complications. Three-dimensional images were reconstructed.

#### Findings:

The left main coronary artery has a calcified plaque in the distal segment with luminal irregularity and bifurcates into the anterior descending coronary artery and the circumflex artery.

The left anterior descending artery has a calcified plaque in the proximal segment with <25% stenosis, and the large first branch gives rise to superior and inferior branches and are without disease.

The circumflex artery has a calcified plaque in the proximal segment with luminal irregularity and the circumflex artery is without disease.

The right coronary artery has a calcified plaque in the mid segment with luminal irregularity; the rest of the segment, the posterior descending and posterior lateral branches are without disease.

Dominance: Right

#### NON CORONARY CARDIAC STRUCTURES:

The left ventricle, right ventricle, left and right atrium all have normal size. The mitral and aortic valves have normal appearance with no calcification or thickening. Pericardium has normal thickness. Aortic root and ascending aorta have normal appearance.

Noncardiac structures are reported separately.

#### Coronary artery calcium:

Agatston score for total study (sum of 4 vessels): 126

Agatston score percentile is between 50 and 75 for males between ages 55 and 64 years.

There is calcium in the aortic wall; no calcium in the aortic valve, mitral annulus/valve, pericardium, and myocardium.

Agatston score for each vessel: LM 22, LAD 63, Cx 8, RCA 33

Radiation dose: 15 mSv

#### Impression:

CT coronary angiogram with non-obstructive coronary artery disease, coronary artery calcium score of 126.

#### Recommendations:

Statin therapy for CAC >100. Lifestyle modification.

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## Component Results