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<u>Procedure(s)</u>	<u>Accession Number(s)</u>	<u>Date of Service</u>
CT ANGIO CORONARY WITH IV CONTRAST AND CT CHEST WITHOUT IVC	21838835	3/23/21

IMPRESSION:

1. Total coronary artery calcium score: 7
2. Coronary artery atherosclerotic disease of the mid RCA (noncalcified plaque, moderate (50-55%) stenosis), LCx (calcified plaques, mild (maximum of 25%) stenosis), and LAD (noncalcified plaque resulting in 40-45% stenosis and other minimal calcified plaques resulting in no significant stenosis).
3. Small vascular connection between the LA appendage and the RV septal surface as described above.

FINDINGS:

CLINICAL INDICATION: 49 year old man presenting for evaluation of the coronary arteries.

COMPARISON: None.

TECHNIQUE: Non-contrast ECG synchronized CT of the heart was performed. Coronary artery calcification was analyzed using calcium scoring software with a threshold value of 130 Hounsfield Units.

Subsequently, a CT angiogram was performed of the heart from the level of the pulmonary artery bifurcation to the diaphragm in association with sequential ECG synchronization. A test bolus determined timing of the acquisition. In order to provide better visualization of the anatomy, advanced off-line 3D post-processing techniques, including curved reformatted images and volume rendering, were performed on an independent workstation. Multiplanar 3D rendered images were created from the source images. This confirms the presence of the described findings. Post-processing was performed with concurrent physician supervision.

MEDICATIONS:

Total contrast administered: 80 ml of Isovview-370 at 7 ml/s.

Bêta-blocker administered prior to injection: No.

Nitroglycerin administered prior to the examination: 0.4 mg SL.

FINDINGS:

CALCIUM SCORE:

LM: Number of lesions = 0; volume (mm³) = 0; calcium score = 0.

LAD: Number of lesions = 0; volume (mm³) = 0; calcium score = 0.

LCX: Number of lesions = 28; volume (mm³) = 0; calcium score = 7.

RCA: Number of lesions = 0; volume (mm³) = 0; calcium score = 0.

TOTAL: Number of lesions = 2; volume (mm³) = 8; calcium score = 7.

REFERENCE NORMS for CALCIUM SCORE (Following Mayo Clin Proc. 1999; 74(3): 243-52): No identifiable calcification = 0; Minimal identifiable calcification = 1 - 10, Mild calcification = 11 to 100; Moderate calcification = 101 to 400; Significant calcification = 401 or greater.

CORONARY ARTERY ANGIOGRAM FINDINGS:

Left main: No left main segment identified with separate origins of the LAD and LCx coronary arteries.

LAD: The LAD is a normal caliber vessel. Noncalcified plaque in the mid LAD (distal to the diagonal branch) resulting in mild stenosis (about 40-45%). Few scattered minimal noncalcified and calcified plaques seen in the proximal and mid LAD resulting in no significant stenosis (less than 10%).

LCX: The LCX is a normal caliber vessel. Small calcified plaque seen in the proximal and mid left circumflex coronary artery resulting in mild degree of stenosis (up to a maximum of 25%).

RCA: The right coronary artery is dominant. Noncalcified plaque seen in the mid RCA resulting in moderate degree of stenosis (50-55%).

DOMINANCE: Right coronary artery.

ADDITIONAL FINDINGS: Please note this is a cardiac focused examination and the chest is incompletely imaged. Small vascular connection seen arising from the medial aspect of the mouth of the LA appendage (series 7 image 88) that courses inferior to the left circumflex coronary artery and the anteriorly in close proximity to the aortic root and inserts into the septal surface of the RV (see series 7 image 121).

Electronic Signature: I personally reviewed the images and agree with this report. Final Report: Dictated by and Signed by Attending Puneet Bhatla MD 3/23/2021 11:39 AM