

CORONARY ARTERIES

Calcium score

The calcium score is 62 . Distribution of calcium:- LMCA, LAD, LCx, RCA This score is consistent with low coronary artery atherosclerotic plaque burden but even so, on a population basis, this score places the patient in the 82nd percentile rank for age, race and gender according to the MESA cohort.

Dominance

The circulation is right dominant .

Left main coronary artery

The LMCA arises from the left coronary sinus of Valsalva in the usual position. It divides into left anterior descending and circumflex vessels. It contains focal calcified plaque distally causing <25% stenosis.

Left anterior descending artery

The LAD is a large calibre artery and gives rise to one main diagonal branch. There is focal mixed plaque in the proximal to mid segment associated with <25% stenosis. No additional atherosclerotic changes of significance are detected within the main vessel or major diagonal branches.

Circumflex artery

The circumflex artery is a medium calibre vessel. Focal mixed plaque is seen in the mid circumflex associated with <25% stenosis. The distal vessel and the obtuse marginal branches appear normal

Right coronary artery

The RCA is a large calibre vessel which arises from the right coronary sinus of Valsalva in the usual position and gives rise to multiple posterior descending and posterolateral branches. Focal mixed plaque is seen in the mid vessel associated with <25% stenosis. The distal vessel and branches of the RCA appear normal.

ADDITIONAL CARDIAC FINDINGS

The cardiac chambers, myocardium, pericardium and scanned segments of the thoracic aorta appear normal.

OTHER FINDINGS

There is mild gravitational atelectasis.

CONCLUSION:

The epicardial coronary arteries exhibit relatively mild focal non-obstructive atherosclerotic changes involving the LMCA and all three major vessels . There has been plaque progression since the previous study in 2011 and lipid lowering therapy is recommended targeting a fairly low LDL level, < 2.0 mmol/l.

There are no additional cardiac findings of relevance within the scanned segments.

Thank you for referring this patient.

Primary Read of Cardiac Findings by: Dr Bruce Banner

Co-read of Cardiac and Non-Cardiac Findings by: Dr Wonder Woman

General
Report
#1036711:
Authorised by
Dr Wonder
Woman () at
20/01/2019
20:57

Date Serviced:
17/01/2019
10:30

Requests:
19/BJ/0000537
(Series 0;
Requested by:
Dr; Work Site:
BJ)

Services:
CT Coronary
Angiogram
(NR)
(17/01/2019
10:30 -
17/01/2019
10:50)

EXAM: CT CORONARY ANGIOGRAM AND CALCIUM SCORE

CLINICAL DETAILS:

Screening test. Risk factors for coronary artery disease: - Nil identified.

TECHNICAL PARAMETERS:

Single phase CT coronary angiography was performed using prospective ECG gating at 100 kVp. The total radiation dose (DLP) including scout, non contrast and contrast acquisitions was 162 mGycm⁻¹. The patient had been pre-treated with beta blockers. Medication administered in the department: 800 mcg nitrates. Intravenous iodine contrast volume: 89 mL. Data acquisition was at an average heart rate of 41 bpm. Image quality was good .

FINDINGS:

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