

General Report
#1032933:

Authorised by
Dr Donald
Duck () at
14/01/2019
00:51

Date Serviced:
10/01/2019
08:00

Requests:
19/RA/0000593
(Series 5;
Requested by:
Dr; Work Site:
RA)

Services:
CT Coronary
Angiogram
(NR)
(10/01/2019
09:10 -
10/01/2019
09:20)

EXAM: CT CORONARY ANGIOGRAM AND CALCIUM SCORE

CLINICAL DETAILS:

Screening test. Progress study - normal scan 2009. Risk factors for coronary artery disease: - Family history. Hyperlipidaemia.

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 285 mGycm⁻¹. The patient had been pre-treated with beta blockers. Medication administered in the department: 800 mcg nitrates. Intravenous iodine contrast volume: 100 mL. Data acquisition was at an average heart rate of 58 bpm. Image quality was good .

FINDINGS:

CORONARY ARTERIES

Calcium score

The calcium score is 0 . This score is consistent with minimal coronary artery atherosclerotic plaque burden. On a population basis, this score places the patient in the lowest possible percentile rank for age, race and gender according to the MESA cohort.

Dominance

The circulation is left 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 appears normal.

Left anterior descending artery

The LAD is a medium calibre artery and gives rise to one main diagonal branch. The main vessel and its major diagonal branch appear normal allowing for minor motion artefact affecting reconstruction of the proximal segment.

Circumflex artery

The left system is dominant with the circumflex supplying the PDA. Focal non-calcified plaque is seen in the proximal circumflex associated with postive remodelling, causing <25% stenosis. No further atherosclerotic changes of significance are detected within the main circumflex artery or its lateral, posterolateral or posterior descending branches.

Right coronary artery

The RCA is a small non dominant vessel which arises from the right coronary sinus of Valsalva in the usual position and gives rise to only right ventricular branches. There are no significant atherosclerotic changes.

ADDITIONAL CARDIAC FINDINGS

There are no significant non coronary cardiac findings.

OTHER FINDINGS

There is mild gravitational atelectasis in the lungs. There are several small mediastinal nodes, but non is significant in terms of size.

There is a 7mm low density lesion in the right lobe of the liver, likely a cyst. Ultrasound would help clarify.

CONCLUSION:

Focal non-obstructive non calcified plaque is seen in the proximal (dominant) circumflex artery. The epicardial coronary arteries otherwise appear normal by CCTA. Overall plaque burden is low . 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 Donald Duck