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General Report  
#1031594:  
Authorised by  
Dr Wonder  
Woman () at  
10/01/2019  
20:26

Date Serviced:  
08/01/2019  
08:50

Requests:  
19/RA/0000376  
(Series 4;  
Requested by:  
Dr; Work Site:  
RA)

Services:  
CT Coronary  
Angiogram  
(NR)  
(08/01/2019  
08:50 -  
08/01/2019  
09:00)

## **EXAM: CT CORONARY ANGIOGRAM AND CALCIUM SCORE**

### **CLINICAL DETAILS:**

Atypical chest pain. Risk factors for coronary artery disease: -

### **TECHNICAL PARAMETERS:**

Single phase CT coronary angiography was performed using prospective ECG gating at 120 kVp. The total radiation dose (DLP) including scout, non contrast and contrast acquisitions was 262 mGycm<sup>-1</sup>. The patient had been pre-treated with beta blockers. Medication administered in the department: 200 mg oral metoprolol. 800 mcg nitrates. Intravenous iodine contrast volume: 120 mL. Data acquisition was at an average heart rate of 62 bpm. Image quality was good with minor motion artefact present.

### **FINDINGS:**

#### **CORONARY ARTERIES**

#### **Calcium score**

The calcium score is 3 . Distribution of calcium:- LAD This score is consistent with minimal coronary artery atherosclerotic plaque burden. The patient falls outside the age range of 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 appears normal.

### **Left anterior descending artery**

The LAD is a medium calibre artery and gives rise to one main diagonal branch. There are 2 minor foci of calcification in the proximal to mid segment causing no appreciable luminal narrowing. The remainder of the vessel and the major diagonal branch appear normal.

### **Circumflex artery**

No significant atherosclerotic changes are seen in the main circumflex artery or its obtuse marginal branches.

### **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 2 posterior descending branches but no posterolateral branches. There are no significant atherosclerotic changes.

### **ADDITIONAL CARDIAC FINDINGS**

There are no significant non coronary cardiac findings.

### **OTHER FINDINGS**

The liver is hypodense consistent with fatty infiltration.

The lungs are clear.

### **CONCLUSION:**

**Minor focal calcifications are seen in the proximal to mid LAD causing no appreciable luminal narrowing. The epicardial coronary arteries otherwise appear normal by CCTA allowing for minor motion artefact.**

**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**