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General  
Report  
#1040354:  
Authorised by  
Dr Wonder  
Woman () at  
27/01/2019  
17:53

Date Serviced:  
24/01/2019  
09:30

Requests:  
19/BJ/0000798  
(Series 0;  
Requested by:  
Dr; Work Site:  
BJ)

Services:  
CT Coronary  
Angiogram  
(NR)  
(24/01/2019  
10:00 -  
24/01/2019  
10:20)

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

### **CLINICAL DETAILS:**

Risk evaluation. Risk factors for coronary artery disease: - Hyperlipidaemia. Hypertension.

### **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 143 mGycm<sup>-1</sup>. 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 55 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 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. The main vessel and its major diagonal branch appear normal.

### **Circumflex artery**

The circumflex artery is a medium calibre vessel. No significant atherosclerotic changes are seen in the main vessel 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 posterior descending and posterolateral branches. The main vessel and its distal branches appear normal.

### **ADDITIONAL CARDIAC FINDINGS**

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

### **OTHER FINDINGS**

There are atelectatic changes in the lingula and the right middle lobe.

### **CONCLUSION:**

**The epicardial coronary arteries appear normal by CT angiography. 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**