

CT CARDIAC SCREENING - Details

Study Result

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On 8/3/2020, we performed a spiral CT scan and assessed coronary artery calcium scoring for your patient, who was self referred.

Coronary artery calcification is a specific marker for coronary atherosclerosis. The amount of calcification correlates with severity of coronary atherosclerosis and the probability of obstructive disease. A very low or 0 score implies virtually no coronary obstructive disease, with the rare exception occurring in young patients who smoke (soft plaque). A high score indicates a significant plaque burden and risk for future cardiovascular event. It should be understood that calcification is not site specific for stenosis but rather indicates the extent of atherosclerosis in the coronary arteries overall. The score may be used as a benchmark to measure subsequent disease development or assess preventative programs.

The following details the results of our CT cardiac scoring:

TECHNIQUE: Axial 2.5 mm images were obtained from the carina to the apex of the heart. The coronary arteries were assessed for the presence of calcium. A score was calculated by computer for each artery based on the amount of calcium found.

NON-CARDIAC FINDINGS: There is again identified a congenital partial absence of the pericardium. The heart now has changed its position with the axis of the heart pointing posteriorly in the left hemithorax. Given the change in position, this could reflect the heart having moved further through the pericardial defect. There is new groundglass opacity in the left lower lobe which likely atelectasis adjacent to the heart. Stable 9 mm right middle lobe pulmonary nodule. There is a Port-A-Cath with tip terminating at the superior cavoatrial junction.

EXAMINATION RESULTS:

Calcium score:

Left main Coronary Artery: 449
Left Anterior Descending Coronary Artery (LAD): 82.9
Circumflex Coronary Artery (CRX): 153
Right Coronary Artery (RCA): 138
Total score: 822

PERCENTILE RANKING: 72% of people of the same gender and similar age had the same or better/lower score.

IMPRESSION:

Extensive atherosclerotic plaque (total score 400-999). High likelihood of at least one significant coronary narrowing.

The results of the calcium scoring have been reviewed with the patient. A copy of the report was sent, as a courtesy, to the physician's office requested by the patient. Thank you for your confidence in Medical Imaging of Fredericksburg.