

**Bellevue Medical Imaging**1400 116th Avenue NE

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Patient: ARAKAWA, ALLISON**DOB:** 9/23/1958**Patient ID:** 1097162**Patient Phone:** (425) 254-8039**Referring:** SAMIRA UMMAT MD**2nd Referring:****Exam Date:** 9/29/2020**Accession #:** 549983[CLICK HERE TO VIEW EXAM](#)**PROCEDURE:** CT HEART WITHOUT INTRAVENOUS CONTRAST, WITH QUANTITATIVE CORONARY CALCIUM SCORING**COMPARISON:** None. The patient has received no known previous CT and cardiac nuclear medicine studies in the 12-month period prior to the current study.**INDICATIONS AND REPORTED RISK FACTORS:** Concern of coronary artery disease. Hyperlipidemia.**TECHNIQUE:** Low-dose prospectively gated CT images of the heart were obtained, and quantitative analysis of coronary artery calcification was performed. Comparison was made to a patient database of similar age and gender.**BACKGROUND:** Coronary artery calcification is a direct marker for coronary atherosclerosis. A coronary artery calcium scan is a low dose CT scan which sums all visible calcium in the coronary tree to provide each patient with a coronary artery calcium score (CACS). As the calcium score increases, so does future cardiovascular risk. The calcium score is superior to traditional risk factors for risk stratification and permits more effective prevention strategies and tailored medical therapy.**CALCIUM SCORE:**

Agatston: 0.0
Volume (mm³): 0.0
Percentile (%) for age and gender: 0-25th
Chronological age: 62
Coronary age: <35

OTHER OBSERVATIONS:

Hyperinflation. Interstitial scarring throughout the lung fields. Density within the lateral basilar segments of the left lower lobe measuring 9 mm in diameter. Areas of groundglass density within the periphery of the lung fields. Recommend CT scan of the lungs are further evaluation.

Artery	Lesions	Volume [mm ³]	Equiv. mass [mg]	Score
LM	0	0.0	0.00	0.0
LAD	0	0.0	0.00	0.0
CX	0	0.0	0.00	0.0
RCA	0	0.0	0.00	0.0
TOTAL	0	0.0	0.00	0.0

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GUIDELINES BASED ON SCORE OF ZERO, WITH RISK FACTORS:

- Moderate risk. <1% annualized risk of myocardial infarction or cardiac death.
- Symptomatic patients with calcium score of zero may have non-calcified plaque and require further evaluation.
- Recommend risk factor modification.
- LDL target <130 mg/dl.
- Retest in five years.

All CT scans at Bellevue Medical Imaging are performed using dose optimization techniques as appropriate to a performed exam including the following:

- Automated exposure control
- Adjustment of the mA and/or kV according to patient size.
- Use of iterative reconstruction technique.

References:

1. ACCF/AHA 2007 Clinical Expert Consensus Document on Coronary Artery Calcium Scoring by Computed Tomography in Global Cardiovascular Risk Assessment and in Evaluation of Patients with Chest Pain Circulation, 2007, 115:402-426
2. Arad *et al.* The St Francis Heart Study, J Am Coll Cardiol, 2005, 46:158-65
3. Naghavi M *Et al.* Executive Summary of the Screening for Heart Attack Prevention and Eradication(SHAPE), Task Force Report, Am J Card, 2006, 98:2-15
4. Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults. 2001. Executive Summary of the Third Report of evaluation and treatment of high blood cholesterol in adults (Adult Treatment Panel III). JAMA, 285:2486-97

Dictated by: Brian C Jacobs MD on 9/29/2020 at 12:19

Transcribed by: JACOBS on 9/29/2020 at 12:20

Approved by: BRIAN JACOBS MD on 9/29/2020 at 14:03