

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

Bellevue, WA 98004

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Scan
9/29/20

Patient: ARAKAWA, THOMAS
DOB: 10/15/1955
Patient ID: 1097163
Patient Phone: (425) 306-6318
Referring: SAMIRA UMMAT MD
2nd Referring:

Exam Date: 9/29/2020
Accession #: 549984

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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: 1548.9 (significant calcification)

Volume (mm³): 1290.0

Percentile (%) for age and gender: >90th

Chronological age: 64

Coronary age: >70

✓ **OTHER OBSERVATIONS:** Marked calcification of the LAD and circumflex coronary arteries, which could be critical. Recommend further evaluation.

Artery	Lesions	Volume [mm ³]	Equiv. mass [mg]	Score
LM	0	0.0	0.00	0.0
LAD	5	557.8	116.60	682.3
CX	3	6.7	1.29	4.6
RCA	13	725.5	142.48	862.0
TOTAL	21	1290.0	260.38	1548.9

GUIDELINES BASED ON SCORE OF >600

- Very high risk.
- Recommend risk factor modification.

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- LDL target <70 mg/dl.
- Consider myocardial ischemia test and subsequent CT or catheter angiography for positive ischemia test results.
- The decision to support continuing with coronary CT angiography is based on medical necessity as determined by review of data and consultation with the referring physician.

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 12:27

Transcribed by: JACOBS on 9/29/2020 at 12:31

Approved by: BRIAN JACOBS MD on 9/29/2020 at 13:59