

COMPREHENSIVE  
**Cardiac  
Imaging**  
CAPABILITIES



**RIS**  
RADIOLOGY AND IMAGING SPECIALISTS

at



Lakeland Regional Health

## CORONARY CALCIUM SCORE

Clinically shown to be five (5) times more accurate than other assessment methods risk assessment methods at predicting which patients are at risk for coronary artery disease, the coronary calcium score is superior to all other non-invasive risk assessment methods, such as cholesterol and blood pressure measurement.

According to a 2018 report in the *Journal of the American College of Cardiology*, "Coronary Artery Calcium scoring has emerged as a widely available, consistent, and reproducible means of assessing risk for major CV outcomes, especially when planning primary prevention interventions such as statins and aspirin. CAC testing in asymptomatic populations is cost-effective across a broad range of baseline risks, and has been shown to positively impact patient compliance."<sup>1</sup>

***"At just \$50, the Coronary Calcium Score can gain critical insight into a cardiovascular condition."***

— Regina Ason, M.D.

**Coronary  
Calcium Score**

**5X more accurate**  
than other risk  
assessment methods



**Regina Ason, M.D.**  
Diagnostic Radiologist  
Specialty: Body and Cardiac Imaging

**CTA**  
**Sensitivity** of up  
to **95%** and  
**Specificity** of up  
to **98%**.

## CARDIAC MRI

Many physicians use CT and CT angiography to diagnose and evaluate or rule out heart disease. Despite CT's ability to pinpoint blockages in the coronary arteries, it lacks the ability to differentiate healthy tissue from abnormal tissue within the heart. CT is also not capable of assessing myocardial viability.

Cardiac MRI is an excellent tool to determine myocardial viability. It can assess the size and thickness of chambers within the heart to determine the extent and severity of valvular disease. It provides detailed information about the type and severity of heart disease in order to help guide therapeutic decisions.

---

## CORONARY CT ANGIOGRAPHY

For patients with acute or chronic chest pain, CT Angiography is a non-invasive way to accurately image the coronary arteries without the need for an interventional angiogram. It provides a comprehensive assessment of cardiovascular anatomy for the presence of coronary artery disease.

Three-dimensional volume-rendered images are useful for assessing the relationships among different anatomical structures, as well as quantifying atherosclerotic coronary plaques. Numerous clinical studies have demonstrated CTA sensitivity of up to 95% and specificity of up to 98%.

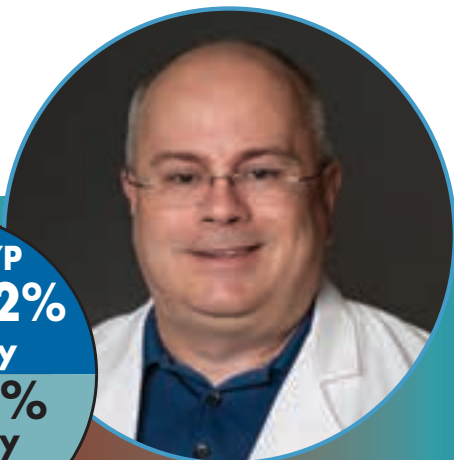


.....

## **NUCLEAR MEDICINE - CARDIAC AMYLOIDOSIS TECHNETIUM-99M PYROPHOSPHATE (TC 99M PYP)**

Technetium-99m pyrophosphate (Tc 99m PYP) imaging is a noninvasive and less expensive alternative to endomyocardial biopsy for diagnosing cardiac transthyretin amyloidosis (ATTR).

Differentiating between amyloid variants is important for prognosis, therapy and genetic counseling. Consider in patients with unexplained heart failure, increased left ventricular wall thickness, unexplained neuropathy or bilateral carpal tunnel syndrome. Tc-99m PYP imaging has shown a 98.2% specificity and a 92.3% sensitivity in diagnosing ATTR.



**Tc-99m PYP**  
has shown **98.2%**  
**Specificity**  
and a **92.3%**  
**Sensitivity**  
in diagnosing ATTR.

**Christian Schmitt, M.D.**  
Diagnostic Radiologist  
Specialty: Nuclear Medicine



## **ECHOCARDIOGRAM**

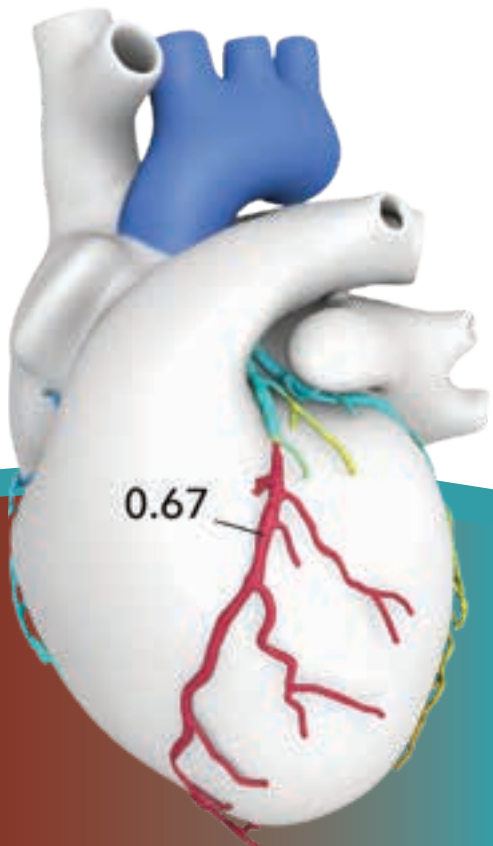
For the convenience of referring physicians, we offer echocardiograms at our Lakeland, Kissimmee, and Plant City locations. When you need to evaluate blood flow through a patient's heart chambers, valves and blood vessels, our Central Lakeland location performs this test at some of the most competitive pricing in the region. Expert interpretation is provided by a board-certified cardiologist on staff.

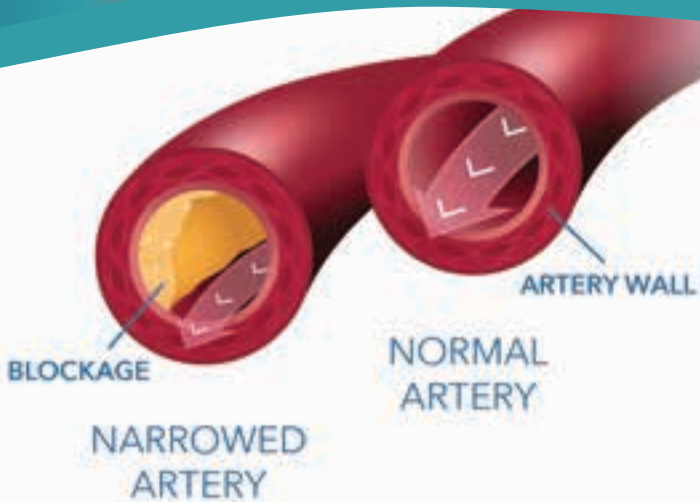
*We can accommodate your patients on short notice, and will have test results to you within 48 hours or less from the time of their test.*



## HEART FLOW

Using the imaging data obtained from coronary CT angiography, HeartFlow can non-invasively measure the impact blockages are having on blood flow. The HeartFlow FFR<sub>ct</sub> (fractional flow reserve CT) uses sophisticated software to create a personalized 3D model of the heart and calculates a mathematically derived quantity computed from simulated pressure, velocity and blood flow information.





The PLATFORM study demonstrated that FFR<sub>ct</sub> reduced invasive catheterizations and costs, while achieving equivalent clinical outcomes and quality of life, compared with conventional care.



*“For patients with stable CAD, HeartFlow is comparable to traditional FFR measurement for identifying vessel-specific ischemia and can help guide better treatment decisions.”*

— Regina Ason, M.D.

## ABOUT RADIOLOGY AND IMAGING SPECIALISTS (RIS)

RIS is Central Florida's local, physician-owned radiology group. Our team of over 50 board-certified physicians includes specialists and subspecialists in all aspects of diagnostic and interventional radiology.

In addition to our various outpatient imaging centers, we provide services for Lakeland Regional Health, Winter Haven Hospital, Advent Health Heart of Florida Hospital, Bartow Regional Medical Center, Manatee Memorial Hospital, Lakewood Ranch Medical Center, Manatee Diagnostic Centers, Gessler Clinic and Bond Clinic.

Our physicians, administration and staff strive to build a community practice dedicated to the highest levels of quality clinical care and customer service. We are a true partner to referring physicians, always available, exceptionally responsive and professionally courteous.

***To schedule cardiac exams with an order from your provider, please call 863.688.2334.***

**RIS**  
RADIOLOGY AND IMAGING SPECIALISTS

at



**Lakeland Regional Health**

**ris-lrh.com | 863.688.2334**

<sup>1</sup> Greenland P, Blaha MJ, Budoff MJ, Erbel R, Watson KE. Coronary Calcium Score and Cardiovascular Risk. J Am Coll Cardiol 2018;72:434-447.