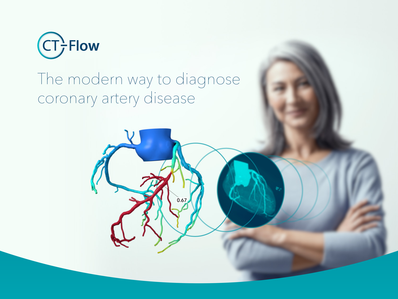
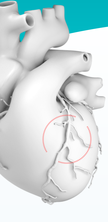
CT-Flow

# The modern way to diagnose coronary artery disease




The CT-Flow pathway combines two powerful, non-invasive technologies—coronary CTA (CCTA) and the HeartFlow Analysis—to help physicians more accurately determine the best treatment for each patient.[1]



## How do patients benefit?

The CT-Flow pathway addresses the current gaps in traditional diagnostic testing, where patients may be misdiagnosed due to inaccurate test results.[2] Physicians now have access to more precise information to effectively diagnose patients with coronary artery disease.[1]

## Avoid unnecessary invasive testing

55% of patients sent for an elective ICA (diagnostic cath) do not have obstructive CAD[3]

**HISTORY**
- Past smoker
- Chest pain, radiating to neck and shoulder

**CCTA**
- Moderate-severe mid-LAD stenosis

**HEARTFLOW ANALYSIS**
- Negative HeartFlow Analysis showing no functionally significant blockages

**TREATMENT**
- Optimal medical therapy

By following the CT-Flow pathway, Becky avoided an invasive diagnostic cath.

## Reduce risk of a misdiagnosis

20-30% of patients are sent home with their disease undetected[4]

**HISTORY**
- Sporadic episodes of chest pain and nausea during daily exercise over an eight-year time period
- Has completed numerous marathons

**TESTING**
- Negative EKG
- Negative Stress Echo
- Negative SPECT

**CCTA**
- Narrowings in the coronary arteries

**HEARTFLOW ANALYSIS**
- Positive HeartFlow Analysis showing a functionally significant blockage in the LAD

**TREATMENT**
- Invasive angiogram identified 85% blockage in the LAD resulting in placement of one stent

Following the CT-Flow pathway, John would have avoided numerous negative tests and been treated for his risky heart disease sooner.

## Identify functional disease that is overlooked

63% of treatment plans changed based on information from a HeartFlow Analysis[5]

**HISTORY**
- Persistent chest pain

**TESTING**
- Five negative SPECT tests over 13 years

**CCTA**
- Narrowing of multiple coronary arteries

**HEARTFLOW ANALYSIS**
- Positive HeartFlow Analysis showing two coronary arteries with functionally significant disease

**TREATMENT**
- Invasive angiogram confirmed the HeartFlow Analysis resulting in revascularization

Had Robin's physician recommended the CT-Flow pathway first, her disease may have been diagnosed years earlier and decreased her risk of a heart attack sooner.

Improved accuracy, precise patient care.[1]

CT-Flow

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* Patient stories are based off of real patient cases, and names have been changed to protect patient privacy where patient information is provided.

The HeartFlow Analysis is a personalized cardiac test indicated for use in clinically stable symptomatic patients with coronary artery disease. The information provided by the HeartFlow Analysis is intended to be used in conjunction with the patient's clinical history, symptoms and other diagnostic tests, as well as the clinician's professional judgment, to assist with the management of coronary artery disease. The HeartFlow Analysis has not been shown to improve patient outcomes or to be a stand-alone diagnostic performance compared to other non-invasive cardiac tests. If you are a patient and suspect this test may be right for you, please speak with your doctor.


1 Driessen, et al. J Am Coll Cardiol 2019; Norgaard, et al. Euro J Radiol 2015.
2 Meijboom, et al. JACC Cardiovasc Imaging 2008; Jung, et al. Euro Heart J 2008; Kim, et al. J Am Coll Cardiol 2011; Min, et al. JAMA 2012; Norgaard, et al. J Am Coll Cardiol 2014.
3 Douglas, et al. J Am Coll Cardiol 2016.
4 Hirota Quality Hospital 2012; Nakata, et al. Nutritional J 2018; Nakanishi, et al. J Nucl Cardiol 2016.
5 Patel, et al. JACC Cardiovascular Imaging 2019.
6 Norgaard, et al. J Am Coll Cardiol. 2014; Driessen, et al. Presented at EuroPCR 2018.



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