

NHS England Innovation and Technology Payment

Rapidly diagnosing patients with suspected coronary artery disease using a non-invasive method

Coronary artery disease (CAD) is the most common type of cardiovascular disease and leading cause of deaths.

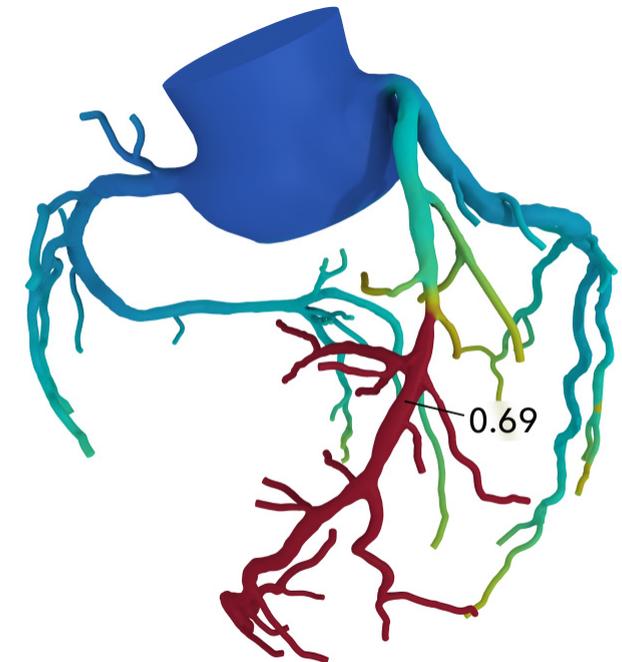
Image analysis can help diagnose patients with suspected coronary artery disease (CAD) quickly and improve the decisions made about their treatment.

Until recently, the diagnosis of CAD was determined primarily by coronary angiography, an invasive and costly procedure.

HeartFlow utilises images from a patient's non-invasive coronary CT scan. Trained technicians create a personalised, digital 3D model of the patient's coronary arteries. The HeartFlow algorithms simulate blood flow and assess the impact of blockages on coronary blood flow. The information enables clinicians to determine the best course of treatment.

NICE has produced a briefing with further information and evidence: www.nice.org.uk/guidance/mtg32

Based on NICE's Medical Technology Guidance (2017) there is an estimated potential net saving of £214 per patient for HeartFlow FFRCT (fractional flow reserve derived from CT) Analysis compared with the current treatment pathway.



Patient benefit Reduces the need for patients to undergo unnecessary procedures.

Efficient Reduces need for stress testing (for example, monitoring how the heart responds to physical exercise), which does not always deliver reliable results and often leads to more testing or the overuse of costly, invasive procedures.

No cost Order directly from the supplier at no cost on the NHS Innovation and Technology Payment until March 2019.

This is one of four innovations funded through the NHS England Innovation and Technology Payment (ITP). To find out more, go to: www.ahsnnetwork.com/innovation-technology-payment-itp

TheAHSNNetwork

The NHS Innovation and Technology Payment (ITP) is an NHS England programme, supported by Academic Health Science Networks (AHSNs), which aims to remove financial barriers to the uptake of innovative products into the NHS to improve care for patients. There are three innovations on the programme available at zero cost and one innovation available at no additional cost to health and care providers from April 2018 until March 2019, after which the support will be reviewed.

Criteria apply. Please see NHS ITP technical notes for more information:

www.england.nhs.uk/wp-content/uploads/2018/05/innovation-technology-payment-2018-19-technical-notes.pdf

HeartFlow FAQs

Q: Are there any restrictions?

A: Yes, a minimum volume of 700 coronary CT angiograms per hospital (annually) or prior experience with HeartFlow is required.

Q: What is the cost of HeartFlow not on the ITP?

A: HeartFlow costs £700 per patient, which can be offset by the cost-saving of the patient not requiring an angiogram. On the ITP, trusts can receive this for £0.

Q: Are all CT scan results sent to HeartFlow in the United States?

A: No, only CT scans of patients who require further diagnostics in regards to fractional flow 3D modelling are sent to the US.

Q: Have any Information Governance (IG) arrangements been made?

A: Yes, IG has been covered by NHS England and an acceptable pathway is available.

Q: How long does it take for results to come back to the hospital?

A: Results usually come back within 24 hours.

Q: What system is used?

A: HeartFlow software operates from the picture archiving and communication system (PACS) for reviewing the results.

Q: Is training required to use HeartFlow?

A: Yes, training is required and will be organised by HeartFlow. They will manage the entire implementation process.

Q: Is the hospital required to report any information?

A: Yes, minimum data-set reporting is required. For more information and to obtain a copy of the reporting template, please contact Arden GEM CSU: FinanceQueries@ardengemcsu.nhs.uk

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