

The Philips logo, consisting of the word "PHILIPS" in a bold, blue, sans-serif font, is positioned in the top left corner of the page. It is set against a white background that is part of a larger graphic element.

Computed tomography

A wide-angle photograph of a modern hospital building with a glass facade and a green bridge-like structure. In the foreground, there is a parking lot with several cars parked. The sky is blue with some clouds.

# Speed and Efficiency Improves patient care

Philips Ingenuity CT scanner assists Manchester Royal Infirmary in the more efficient handling of patients

## Effective and intuitive

Stuart Clark, the CT Principal Radiographer outlines the reasons why they chose Philips Ingenuity, “at Manchester Royal Infirmary we wanted a system that was cost effective, reduced the overall dose to our patients and was intuitive for the CT team to use. The Ingenuity ticked all the boxes and we are extremely happy with its performance and ease of use.

“Having iMR has made a difference to our practice, from the fact that, it has allowed us to reduce the overall dose to our patients and has helped massively with low contrast detectable lesions.

“We also purchased the Philips Intellispace Portal which has been a revelation from the perspective of being incredibly straight forward to use with packages that meet our clinical need.

“We have also been impressed with the ongoing support given by the Clinical Apps team and their profound knowledge of the system.”

### Manchester Royal Infirmary

was formed in 1752. It had twelve beds and began in a small house in the city centre. Today, it is part of Manchester University NHS Foundation Trust (MFT) and is a large teaching hospital for Manchester University's Medical School, and also a specialist regional centre for kidney and pancreas transplants, haematology and sickle cell disease. Its Heart Centre is a major provider of cardiac services specialising in cardiothoracic surgery and cardiology.



## The challenge

To improve efficiency and throughput for CT scans

## The solution

Philips Ingenuity CT scanner

## Facilitating improved outcomes

The Philips Ingenuity CT scanner joined an existing CT system and is being used, amongst other procedures, as the preferred system for cardiac exams at the hospital. The new equipment brings the benefits of high resolution, low-dose scanning with increased integration and collaboration, patient care and economic value in an upgradeable product.

Dr. Devinda Karunaratne, Consultant Cardiothoracic Radiologist outlines the kind of cases most common in the department. “We obviously work with cardiac and chest patients. We have more patients with coronary artery disease and we have lots of pre-surgical planning scans for patients who are going for minimal invasive cardiovascular procedures, namely TAVI, valve, some mitro-valve, and also graft assessment people who have had previous CABG, bypass grafts for vessel analysis. Most are coronary artery grafts and pre-vascular assessment of minimal invasive CV procedures.”

Claire Hyde, CT Radiographer says, “I think we are doing more work. The throughput on the scanner and the actual scan plans are pretty quick. As a result, appointment times have been cut and this allows for a higher patient throughput. We now undertake a lot more cardiac work and also more TAVI scans, something we never used to do. We have one scanner for outpatients and one for inpatients, but the Philips scanner has become more used as the cardiac scanner. On our other machine, a cardiac scan would take from forty-five to fifty minutes, whereas with the Philips scanner most patients are completed within twenty minutes. Set-up and patient preparation are much faster with the Ingenuity system.”

## Confidence-boosting performance

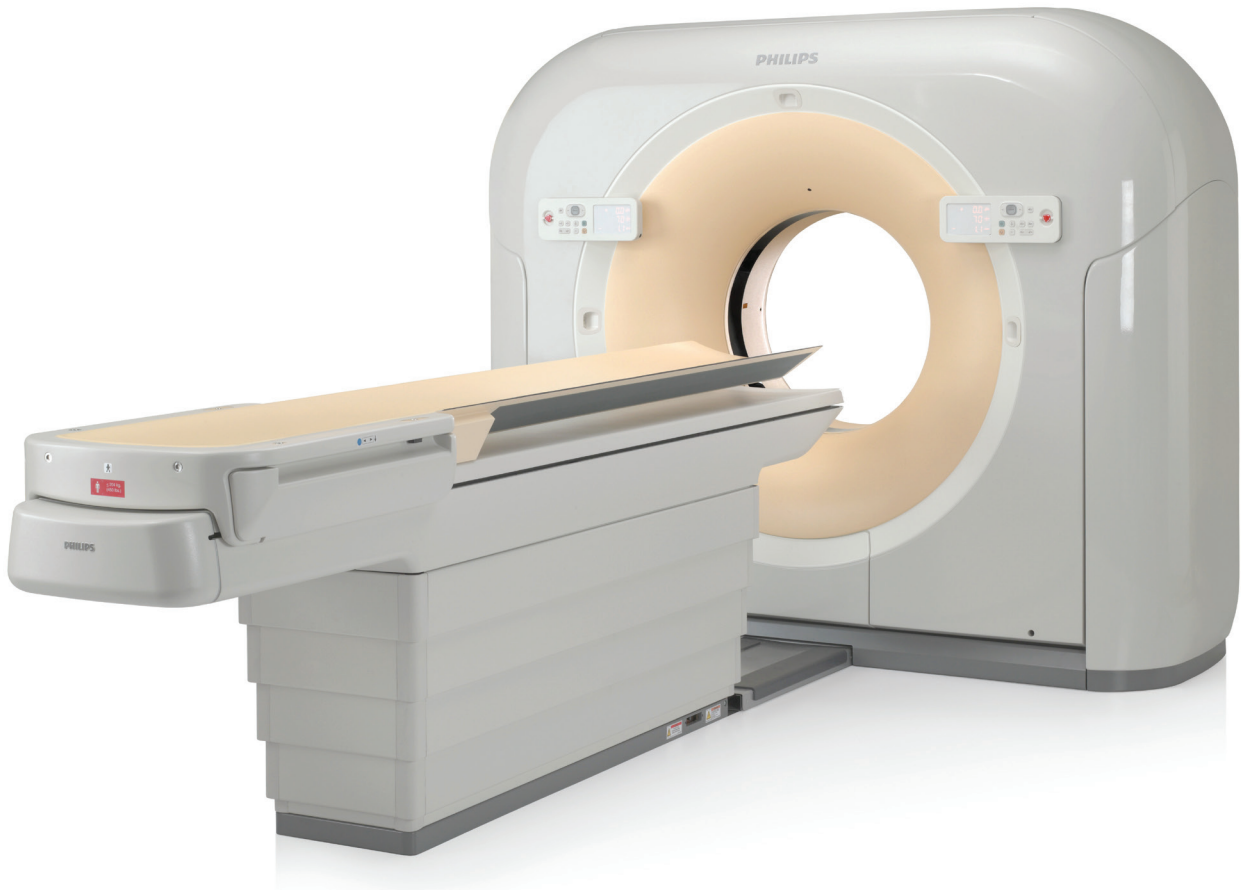
The radiology department has some core management staff and then some rotational staff. Claire says, “We wanted it to be as easy as possible for all our staff to use. When new members of staff come in we wanted to be able to train them and not have to spend time, every session, going through the procedures and protocols. With the Philips scanner you scan ‘from here to here, there’s your patient’ – and then you just pick up the protocol you want, and it will scan it.”



The radiology team

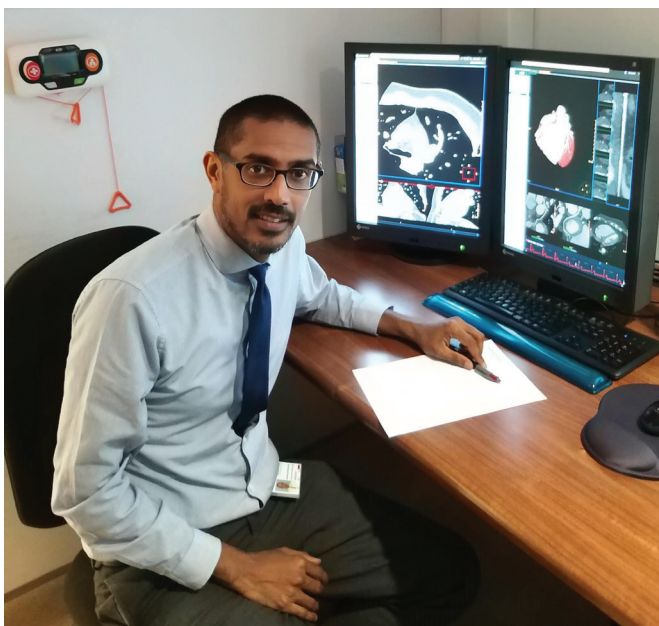
Claire continues, “The Ingenuity gives us time to work and focus on the patient. You do not constantly have to look at the screen and think about what you are going to do next. Once you have planned the scan, you can talk to your patient and the alarm on the scanner tells you that you have ten seconds, so you can walk into the room and have a chat with the patient. You hear a beep and know you must be out. You can tell the patient that they will hear a beep and that means it is taking the pictures and they find it a lot easier as well.”





## Optimal Procedures

Since installation, the Ingenuity scanner has proved its worth. Dr. Karunaratne, evaluating its features, says, “I think the user platform for radiologists and radiographers is very positive and much easier to use. The Philips ISP has actually really changed; a turn-around of reporting, observation, commenting and so on. On the non-cardiac side there is, on the Philips’ software, loads of nodule assessments, virtual bronchoscopy, colour mapping on the myocardium, not available on our previous systems. Whereas, on the Philips ISP, it is very helpful to look at exams in a different way, taking into account the different types of patients to be scanned.”



Dr. Karunaratne

Dr. Karunaratne further comments: “Most of our scanners have been over five years old, so the Philips scanner as ‘the new kid on the block’ has done really well. For instance, I can go and use the console and do all the reconstructions and the assessment, and pick up cases and it allows me to identify how things can be improved and the gaps in the patient journey and referrals. Protocols are selected using the front-end integration and the platform we use for Radiographers and the Philips ISP have really changed how we work, i.e, help with the treatment of the patient and the number of cases we can squeeze in, provided there is enough table time.”

## Supporting Teamwork

Claire Hyde commenting on the Philips support, says, “One of the things I like if there is a problem, which we don’t use very often is the bug report button. This button allows us to make a report on the system, which is sent through to the engineer, where they can diagnose the problem before even picking up the phone and calling service.”

“This really speeds up the process for us. We send the bug report and then we get on the phone. Access to the engineers is good, they are easy to get hold of and that’s really good. We also like the planning ahead service; we have our regular service visits booked well in advance and not at the last minute.”

“The applications team has been brilliant; whenever we needed them at short notice they came in and helped. We really appreciated their expertise in assisting us tweak things and change things.

Dr. Karunaratne, in assessing the support from Philips says, “I think the key is the support from the applications team. It has been useful for the CT Radiographers and radiologists to have constant interaction, and I am also happy, because there is a lot of turn-around of new staff in the department. This means that every time we get a new batch of people, the Philips team comes in, and we can support and keep our staff enthused and enlighten them on the new technology and also continued professional development for Radiographers. I think that constant contact has to be there.”

“I think, the key is the support from the applications team.”

“The Philips’ scanner allows for a quicker setup.”

“Patient preparation is much faster on the Philips system.”

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