

The Philips logo is displayed in a blue, sans-serif font within a white rectangular box.

Computed Tomography



Improving efficiencies at Princess Alexandra Hospital with Philips Incisive CT

About Princess Alexandra Hospital

The Princess Alexandra Hospital NHS Trust provides a full range of general acute, outpatient and diagnostic services at The Princess Alexandra Hospital in Harlow, the Herts and Essex Hospital in Bishop's Stortford, and St Margaret's Hospital in Epping. The Trust employs more than 4,000 staff and serves a local population of around 350,000 people living in west Essex and east Hertfordshire.

Working in partnership

Philips and The Princess Alexandra Hospital have been working together for over two decades. The hospital has three Philips CT scanners on site across its radiology and emergency departments, with two more to be installed as part of the Trust's Community Diagnostic Centre. On average, the existing CTs scan a total of 100 patients per day. The latest Philips Incisive CT scanner was installed in April 2023 to replace an older model that had dated technology, longer initialisation times and a manual patient positioning process.

Improved experience for staff and patients

Equipped with the latest technology, the Trust is now benefiting from an improved CT experience; integrating innovations in imaging, workflow, and lifecycle management to enable smart clinical decision-making, and increased efficiency.

"We like the Philips Incisive CT so much that we have three of them. It makes training new CT radiographers much simpler, enabling us to get our staff up to speed quickly. It also maintains an image and protocol consistency across all our scanners." – **Zoe Tiley, CT superintendent, The Princess Alexandra Hospital.**

The Philips Incisive CT is fully equipped with the AI-based CT Smart Workflow which includes Precise Position, Precise Image, Precise Cardiac and Precise Intervention. It offers enhanced image quality with iDose, O-MAR and 70 kV scanning, enabling the Trust to accommodate a wide range of patients and exam types.

"Being able to perform head scans anywhere across the table has made it easier when dealing with trauma or immobile patients, as we don't have to hoist patients to the end of the scanner, which is better for staff and patients." – **Zoe Tiley, CT superintendent, The Princess Alexandra Hospital.**

Philips AI-enabled CT Smart Workflow

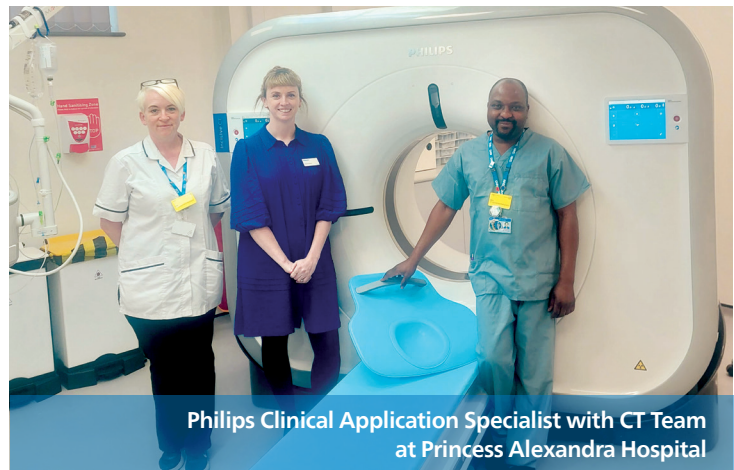
Precise Image: Designed to improve diagnostic confidence and reduce radiologist fatigue by simultaneously reducing dose and improving image quality.

Precise Position: Automated patient positioning through an AI-enabled camera designed to increase positioning accuracy and user-to-user consistency in a fraction of the time.

Precise Intervention: Provides automatic needle tracking and guidance designed to improve efficiency and confidence in CT-guided interventional procedures.

Precise Cardiac: Zero-click technique designed to improve high heart rate cardiac imaging by compensating for cardiac motion in the coronary arteries.

With the Incisive CT, the patient worklist is available on gantry side panels, allowing users to check patient details, select the protocol and patient orientation. The positioning camera will then suggest a start and end point for their planning scan, and the radiographer can select autoloader for the patient to be positioned correctly in both horizontal and vertical planes. By the time the radiographer has walked out of the room the scanner has initialised and is ready to go. This enables the team to spend their time focusing on the patients rather than the technology.



Philips Clinical Application Specialist with CT Team at Princess Alexandra Hospital

"The positioning camera has been a great addition. This has helped staff to ensure that the patients are centred correctly in the isocentre when positioning and we've noticed that this has had a reduction in dose for many patients. Patients are finding the scanners are more comfortable and are also commenting on how quick everything is." - **Zoe Tiley, CT superintendent, The Princess Alexandra Hospital**

Finally, Philips is so confident in the quality and reliability of its Incisive CT's vMRC scan tube, that it has given it an unlimited use, Tube for Life¹ guarantee. This means in the unlikely event that the tube fails, Philips will proactively replace it at no cost, helping to reduce downtime and improve efficiency.

Results: Enabling smart clinical decision-making and increased efficiency

- Dose reduction of over 7% when Precise Position is used²
- > 99% system availability
- Image and protocol consistency across all radiographers and scanners
- Easy to use and train staff
- Accommodating a wider range of patients and exam types
- Less time focused on technology and more time with patients
- Improved patient experience

Discover more on
Philips Incisive CT



Results from case studies are not predictive of results in other cases. Results in other cases may vary.

¹Life of the product (or CT system) is defined by Philips as 10 years. Tube for Life guarantee availability varies by country. Please contact your local Philips sales representative for details.

²Philips CT Clinical Application Specialist assessment at Princess Alexandra Hospital. Based on last 30 patients scanned on each scanner. Compared doses for the chest abdomen pelvis with contrast scan across Philips Incisive CT scanners. Average dose on precise position camera scanner was 365.89DLP and the average dose on the non-camera scanner was 393.88DLP.

