PHILIPS

Computed Tomography

Precision every day

CT Smart Workflow

This is how the day you've planned becomes the day that happens. Philips CT Smart Workflow includes AI* that's deeply embedded into the tools you use every day so that you can apply your expertise to the patient, not the process.

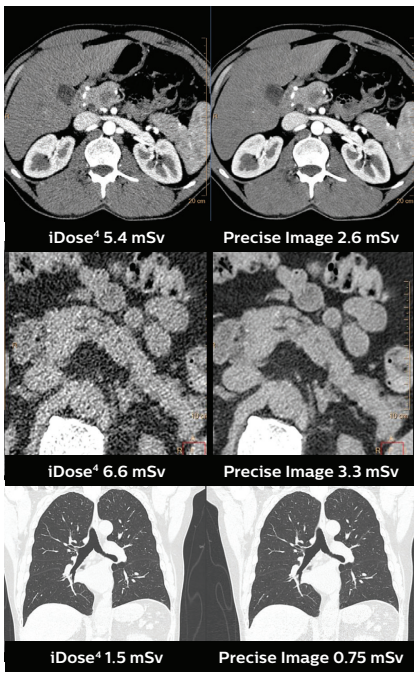
Remove common obstacles to CT performance, clearing the way for the precision in dose, speed and image quality that helps set you apart. CT Smart Workflow improves the experience from the start of the exam through reconstruction and review.

* According to the definition of AI from the EU High-Level Expert Group.

Every day needs to be **first-time right**

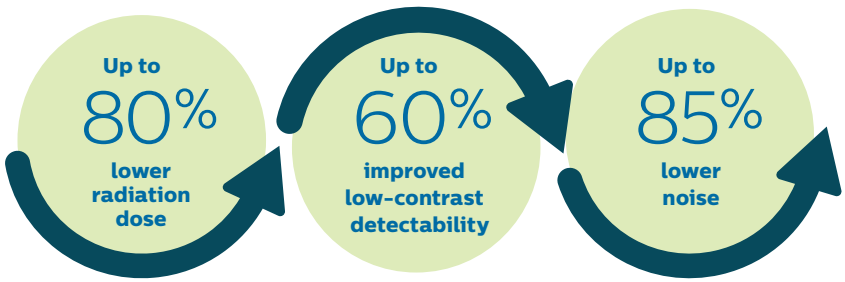
That's why every day needs CT Smart Workflow in your CT suite. Powerful AI-enabled tools bring you advances that matter in your day-to-day imaging, such as AI reconstruction, automatic patient positioning and motion-free cardiac imaging. CT Smart Workflow also offers advances in interventional CT, planning, and brain and spine imaging.

Precise Image



Improved confidence and reduced reading time
Precise image puts the power of deep-learning neural network to work for you for dramatic reductions in dose and image noise, significant increase in low-contrast detectability, and reductions in reading time. It's the industry's fastest AI reconstruction with all reference protocols reconstructed in less than one minute.

Simultaneously*



*Lower image noise, improved low-contrast detectability, and/or dose reduction were tested using reference body protocols. All metrics were tested on phantoms. Low-contrast detectability tests were performed using 1.0 mm slices, and tested on the MITA CT IQ Phantom (CCT183, The Phantom Laboratory), using an auto tool "CHO" (Channelized Hotelling Observer). Data on file.

Precise Cardiac allows for motion-free cardiac imaging.

Precise Cardiac

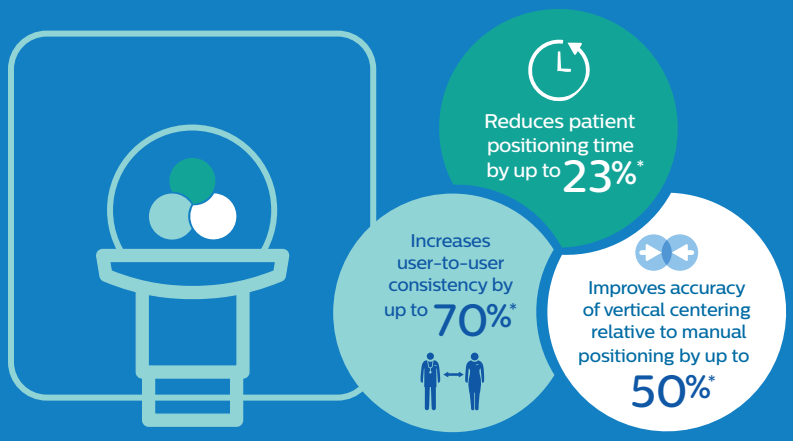
Motion-free cardiac

Motion has long been a challenge in cardiac imaging, especially at high heart rates. Used prospectively or retrospectively, Precise Cardiac corrects for motion in cardiac images to improve image quality at high heart rates.

Precise Position

Automatic patient positioning

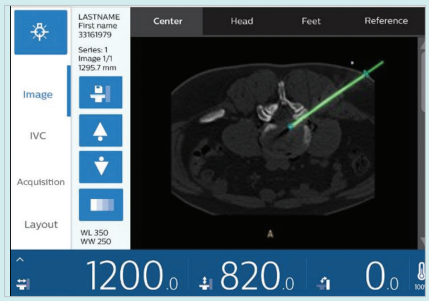
Inaccurate patient positioning is a common and documented challenge in CT imaging, which can lead to unwanted consequences such as increased radiation dose to the patient and image noise.[1] An AI-enabled camera supports automatic patient positioning for significantly increased positioning accuracy and user-to-user consistency in a fraction of the time.



Precise Intervention

Automatic needle tracking

The needle guidance of Precise Intervention enhances workflow for confident interventional CT procedures. Automatically calculate depth, angle, tip-to-target and deviation from plan, enhancing the speed and efficiency necessary for quick and confident interventional procedures. In addition to Precise Intervention, OnPlan gantry controls provide workflow flexibility to the interventional radiologist.

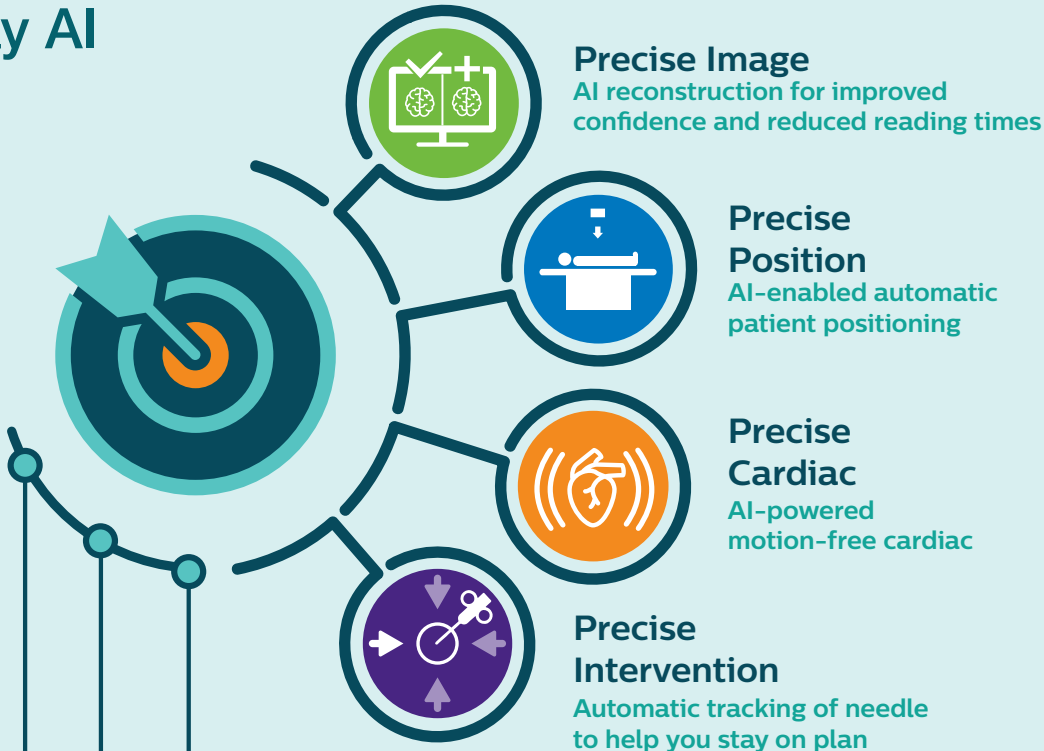


OnPlan allows workflow flexibility for the interventional radiolgist.

*Based on Philips in-house assessment by five clinical experts, comparing manual versus Precise Positioning in 40 clinical cases using a human body phantom. Results from case studies are not predictive of results in other cases. Results in other cases may vary.

CT Smart Workflow

Everyday AI



Precise Image
AI reconstruction for improved confidence and reduced reading times

Precise Position
AI-enabled automatic patient positioning

Precise Cardiac
AI-powered motion-free cardiac

Precise Intervention
Automatic tracking of needle to help you stay on plan

Precise Brain
Automatic generation of a symmetrical brain batch parallel to the orbitomeatal line (OML)

Precise Planning
Automatic placement of the plan box on the surview based on the selected exam card

Precise Spine
Automatic segmentation and labeling of the disc space

Reference

1. Toth T, Ge Z, Daly MP. The influence of patient centering on CT dose and image noise. Med Phys. 2007;34(7):3093-3101. DOI: 10.1118/1.2748113.

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