Philips Pulse Connect

Innovation and AI

Media backgrounder

Philips AI-powered diagnosis with CT

AI-Powered Philips CT: supporting productivity, confidence, and care

What it is

Artificial intelligence is becoming an integral part of medical imaging. Today, AI is embedded throughout the CT workflow – from patient positioning and scan planning to image reconstruction and image review – helping healthcare teams work more efficiently while supporting diagnostic confidence and patient care.

Philips integrates AI across its CT portfolio to help simplify complex workflows, reduce repetitive tasks, and provide clinicians with high-quality imaging information when and where they need it.

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The need it addresses

Computed tomography (CT) is a medical imaging technology that uses X-rays and advanced computing to create detailed cross-sectional images of the body. A CT scan combines multiple X-ray images to create detailed pictures of organs, blood vessels, bones, and tissues inside the body. CT imaging plays a critical role in modern healthcare, supporting emergency care, stroke, trauma, cardiac imaging, oncology, and routine diagnosis. It is one of the most widely used diagnostic tools in modern healthcare.

As demand for imaging continues to grow, healthcare providers face increasing pressure from staff shortages, rising exam volumes, and the need to deliver faster, more efficient care.

AI can help address these challenges by supporting productivity, clinical confidence, and patient care.

How AI supports productivity

Many CT workflows still involve multiple manual steps, from patient positioning and scan planning to image processing and preparation.

Philips CT uses AI to help automate and streamline these tasks, supporting faster workflows, greater consistency, and reduced workload for busy imaging teams.

How AI supports confidence

Diagnostic confidence starts with image quality. AI-powered technologies within Philips' CT solutions help reduce image noise, support image clarity, improve workflow consistency, and provide richer clinical information for clinicians.

By helping deliver high-quality images and advanced imaging insights, AI can support more confident clinical decision-making across a wide range of patient populations and clinical settings. AI-enabled workflows can help reduce unnecessary delays, support faster diagnosis, and contribute to a smoother care experience.

Whether in emergency care, oncology, cardiology, or neurology, AI is helping healthcare teams focus more time on patients and less time on manual processes.

AI Across the CT Journey

AI can support clinicians at every stage of the imaging pathway:

- **Before the scan:** assisting with patient positioning and exam planning
- **During the scan:** supporting efficient and consistent workflow execution

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- **After the scan:** helping reconstruct and prepare images automatically
- **At review:** delivering relevant imaging information to support interpretation

The result is a connected workflow designed to help imaging teams manage growing demand while maintaining high standards of care.

Sources

- Philips launches Verida, world's first detector-based spectral CT powered by breakthrough AI, to advance diagnostic precision
- Philips receives FDA 510(k) clearance for Verida, the world's first AI-powered detector-based spectral CT*, advancing diagnostic precision across clinical applications

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