GE HealthCare's Critical Care Suite 3.0 brings first on-device AI for feeding tube detection to X-ray imaging in adult and pediatric care

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- As the latest evolution of the portfolio, Critical Care Suite 3.0 extends support to pediatric patients for the first time with feeding tube assessment capabilities.
- Mobile X-ray plays an important role in emergency and intensive care environments where clinicians need to respond to rapidly changing patient needs. Critical Care Suite 3.0 is designed to support clinicians in navigating these demanding workflows and help assess feeding tube placement for adult and pediatric patients through AI capabilities embedded on the mobile X-ray device.

CHICAGO--(BUSINESS WIRE)--Nov. 17, 2026-- GE HealthCare today announced it has received 510(k) clearance from the United States Food and Drug Administration (FDA) for Critical Care Suite 3.0, an AI-enabled software designed to automatically detect feeding tubes on X-ray images and support assessment of tube placement in adult and pediatric patients. AI capabilities embedded directly on the mobile X-ray device help assess enteric, or feeding, tube tip and side-port location on the image, providing clinicians with information at the bedside without requiring internet or cloud connectivity.

Mobile X-ray is widely used in fast-moving care environments, with 75% of mobile X-ray system usage in emergency departments and 51% in intensive care units.[i] Enteric tubes are also common in critical care, with research estimating that 80% of intensive care unit patients receive enteral nutrition through nasogastric or nasoenteric tubes.[ii] Assessing proper tube placement is crucial, as misplaced tubes can lead to complications. Embedding tube assessment capabilities directly on the X-ray device can help clinicians more efficiently access this information at the point of care.

Pediatric X-ray imaging requires particular consideration of patient size, anatomy and imaging protocols. With Critical Care Suite 3.0, the mobile X-ray software now supports pediatric patients for the first time with the feeding tube assessment algorithm, extending its capabilities to a patient population with distinct needs.

"Critical care teams need to make timely clinical decisions in complex, rapidly changing environments when every minute counts. Critical Care Suite 3.0 reflects our focus on embedding intuitive AI into existing X-ray imaging workflows to help bring useful information closer to clinicians at the bedside," said Larry Boyd, Vice President and General Manager, Global X-ray, GE HealthCare. "Expanding the algorithm portfolio to include feeding tube assessment capabilities for pediatric patients is an important step in supporting care teams across a broader range of patients with technology designed to fit naturally into the way they work."

Critical Care Suite 3.0 is designed to detect enteric tubes and identify the tube path, tip and side port, while also highlighting the airways and diaphragm as anatomical reference points. In testing, Critical Care Suite 3.0 demonstrated 99.2% sensitivity for tube detection and 91.6% mean DICE localization, a measure of how closely the AI-generated outlines matched expert radiologist annotations.[iii] By bringing AI-enabled enteric tube placement tools directly to the bedside, Critical Care Suite 3.0 is intended to work alongside care teams, helping strengthen clinical confidence in tube placement and streamline workflows.

"Critical Care Suite 3.0 gives our team access to feeding tube assessment information right at the bedside, supporting more timely clinical decisions and better patient care," said Adam Walbrun, Clinical Manager, Imaging Services, at Emplify Health in La Crosse, Wisconsin.* "Our providers see the value firsthand and frequently request the portable X-ray system equipped with this technology."

Critical Care Suite 3.0 builds on previous generations of the portfolio, the X-ray industry's first collection of on-device AI algorithms for automated measurements, case prioritization and quality control. Additionally, the software features Quality Care Suite with AI algorithms to reduce image quality errors and support workflow efficiency. By seamlessly integrating with X-ray imaging workflows, Critical Care Suite is designed to help clinicians access relevant information when and where they need it.

For more information about GE HealthCare's X-ray portfolio, visit gehealthcare.com.

**The statement by the GE HealthCare customer described here is based on their own opinions and experiences and on results that were achieved in the customer's unique setting. Since there is no typical hospital and many variables exist, such as hospital size, case mix, etc., there can be no guarantee that other customers will achieve the same results.*

About GE HealthCare Technologies Inc.

GE HealthCare is a leading global healthcare solutions provider of advanced medical technology, pharmaceutical diagnostics, and AI, cloud and software solutions that help clinicians tackle the world's most complex diseases. Serving patients and providers for 130 years, GE HealthCare is delivering bold innovations designed for the next era of medicine across its Advanced Imaging Solutions, Pharmaceutical Diagnostics and Patient Care Solutions segments to help clinicians deliver more personalized, precise patient care. We are a $20.6 billion business with approximately 54,000 colleagues working to create a world where healthcare has no limits.

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[i] IMV 2024 Diagnostic X-ray Market Outlook Report, accessed August 13, 2026, https://www.scienceandmedicinegroup.com/product/2024-diagnostic-x-ray-market-outlook-report/

[ii] M. Nikandros et al., “Sonography as a Tool to Confirm the Position of the Nasogastric Tube in ICU Patients,” *Critical Care* 10, suppl. 1 (2006): P216, https://doi.org/10.1186/cc4563

[iii] GE HealthCare 510(k) K253502

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