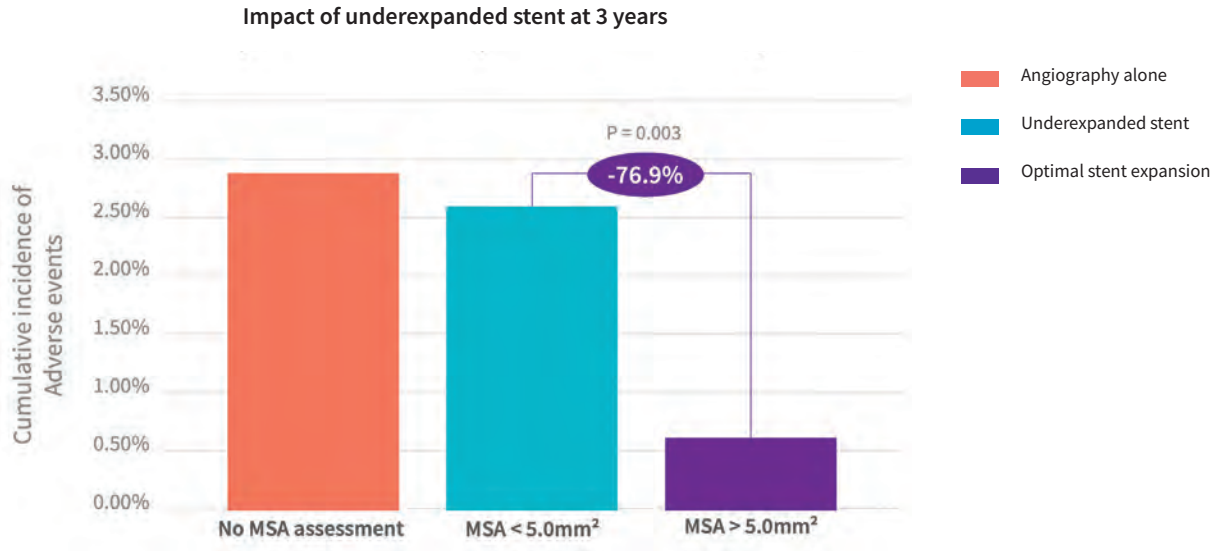
GE HealthCare

The new perspective for stent visualization

3DStent

Available on Allia™ systems. An innovative intraprocedural 3DStent reconstruction leveraging C-arm motion compensated computed tomography (CMCT) imaging, 3DStent* is designed to remove major stent imaging barriers and provide easy-to-interpret images.

Stent underexpansion, a strong predictor of adverse outcomes[1]



Stent underexpansion has been identified as a strong predictor of major adverse outcomes defined as cardiac death, target lesion-related myocardial infarction, or stent thrombosis. Clinical studies show that achieving stent expansion with a minimal stent area (MSA) greater than 5.0 mm^2, measured with IVUS, was associated with significantly improved long-term clinical outcomes compared to both stent underexpansion and angiography guidance alone.

1. Lee YJ, et al. Impact of Intravascular Ultrasound–Guided Optimal Stent Expansion on 3-Year Hard Clinical Outcomes. Circ Cardiovasc Interv. 2021;14:e011124. DOI: 10.1161/CIRCINTERVENTIONS.121.011124

Intraprocedural 3D stent reconstruction with CMCT imaging

At GE HealthCare, our goal is to collaborate with healthcare professionals and interventional cardiologists to deliver superior care. Over the past 25 years, we have introduced life-changing technologies such as the first flat panel with Innova 2000, comprehensive solutions to plan-guide-assess your procedures with ASSIST, and the first AI-based image chain for automatic dose adjustments with AutoRight™.

With 3DStent*, we are going one step further by introducing a tool allowing you to visualize a coronary stent in 3D during the procedure. Leveraging CMCT technology, see your stent from all angles without inserting any additional devices. The image is acquired through an automated rotation of the C-arm, providing both 3D and multi-slice images.

Remove major stent imaging barriers

Three-dimensional stent imaging with:

Zero additional contrast media, Zero additional devices, Zero additional procedural costs.

With our wide range of cardiology solutions, we aim to remove current barriers and provide physicians with additional tools to treat patients better and faster.

Today, you can use different imaging modalities such as intravascular imaging and stent enhancement to better plan and optimize your stenting strategy. However, despite the demonstrated benefits of these technologies, adoption remains limited.

3DStent is complementary to these existing technologies. It provides you with essential 3D information without the need for additional contrast media or devices, and without generating additional costs.

> *"For the first time we have a detailed depiction of the stent during the procedure without the use of intracoronary imaging… it literally takes 10 seconds to understand what we are seeing."*

Dr. Carlos Collet,
Interventional cardiologist.
CV Center Aaslt, Belgium

> *"3DStent acquisition is simple and doesn't require any additional contrast media injection."*

Dr. Hakim Benamer,
Interventional cardiologist, Foch Hospital, Suresnes and Hôpital Européen de Paris – GVM Care & Research, Aubervilliers, France

Easy image interpretation and fast measurements

Intuitive images and straightforward user interface designed for fast diameter and stent expansion measurements.

In imaging, it is sometimes challenging to understand and analyze the different elements shown on the screen. 3DStent images are intuitive and easy to understand. Simple images lower the learning curve and allow for faster image interpretation.

In a couple of clicks, get all the information you want like length, diameter and cross-sectional areas.

Thanks to 3DStent, assess stent expansion confidently: stent area measurements with 3DStent highly correlate with IVUS measurements[1].

Dr. Benamer and Dr. Collet are paid consultants for GE HealthCare. The statements described here are based on their own opinions related to offline image reviews from a product prototype. Results may vary.

[1] Ruiz, et al. Rotational angiography accurately predicts minimal stent area – a comparison with IVUS. Journal of the Society for Cardiovascular Angiography & Interventions, May 2025, DOI:10.1016/j.jscai.2025.102723.

Allia IGS Pulse**, a full range of image guiding systems for your cardiology procedures

Allia IGS 5 Pulse

The Allia™ IGS 5 Pulse unites exceptional image quality, an optimal panel size and built-in protocols for imaging versatility, making it suitable for a full range of Interventional X-ray applications such as coronary, structural heart, electrophysiology and vascular procedures.

Allia IGS 7 Pulse

The Allia™ IGS 7 Pulse unites exceptional image quality, optimal panel size and built-in protocols for imaging versatility. Thanks to its robotic gantry, Allia IGS 7 Pulse allows full mobility in the workspace making it suitable for a full range of Interventional cardiology X-ray procedures as well as hybrid and open interventions.

* 3DStent solution includes Allia™ system, 3DXR and Volume Viewer Innova, and requires AW workstation with Volume Viewer. These applications are sold separately. Not available for sale in all countries. 3DStent is available on Allia™ IGS 5 with 20-cm or 30-cm detector and Allia™ IGS 7 with 30-cm detector.

** Allia IGS Pulse is the commercial name of the latest generation of Allia IGS 3, Allia IGS 5, Allia IGS 7, Allia IGS 7 OR products in their 20- or 30-cm detector configurations. Product may not be available in all countries. Refer to your sales representatives for more information.

About GE HealthCare Technologies Inc.

GE HealthCare is a trusted partner and leading global healthcare solutions provider, innovating medical technology, pharmaceutical diagnostics, and integrated, cloud-first AI-enabled solutions, services and data analytics. We aim to make hospitals and health systems more efficient, clinicians more effective, therapies more precise, and patients healthier and happier. Serving patients and providers for more than 125 years, GE HealthCare is advancing personalized, connected and compassionate care, while simplifying the patient's journey across care pathways. Together, our Imaging, Advanced Visualization Solutions, Patient Care Solutions and Pharmaceutical Diagnostics businesses help improve patient care from screening and diagnosis to therapy and monitoring. We are a $19.7 billion business with approximately 53,000 colleagues working to create a world where healthcare has no limits.

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