GE HealthCare

Allia™ IGS 3

State of the Art Imaging tailored to answer your daily needs

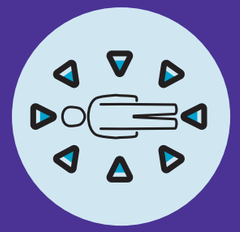


Meet your **trusted assistant** for image guided therapies

Evolving minimally invasive therapies bring new challenges

Diverse patient access

Nearly 50% of procedures[1] are performed at working positions where clinicians have poor access to user interface, functions and display.



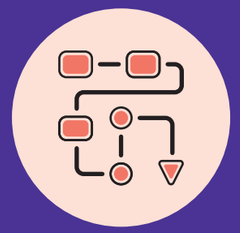
Varied clinical practice

Setting up the workspace and adjusting system settings to suit their preferences is complex and time-consuming for clinicians.



More complex procedures

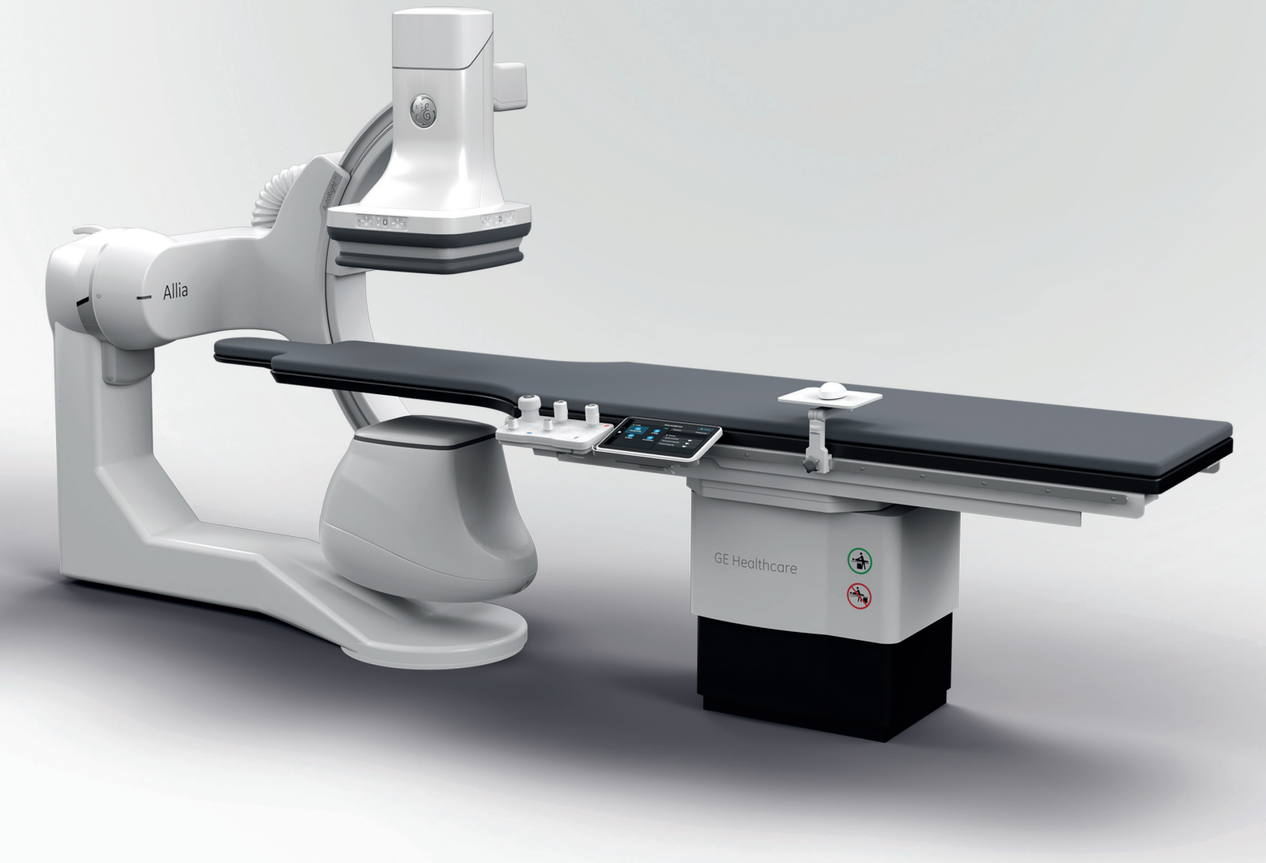
Lack of user-friendly augmented image guidance makes it difficult to minimize contrast media and radiation dose in daily practice.





Meet your **trusted assistant** for image guided therapies

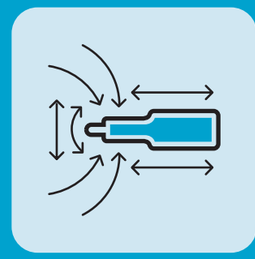
Allia™ IGS 3



With **Allia™**, we're **introducing an assistant**, a new team member present when and where you need it.

Comfort and Control, wherever you are

Keep commands access and large screen full visibility whatever your working position.



Each time you enter, it's your room

Personalizes your workspace for 1-click access to all essential functions for simplified workflow, with comfort and control wherever you are.



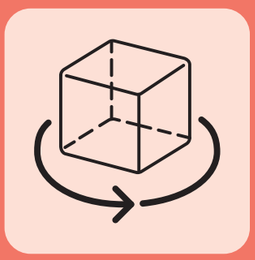
Let the AI assistant optimize IQ/Dose for you

Provides the right image at the right dose automatically, with unique[2] dose awareness and dose limiting technology.



Offering access to 3D imaging

Facilitates CBCT with 3D presets and augmented image guidance in daily practice.



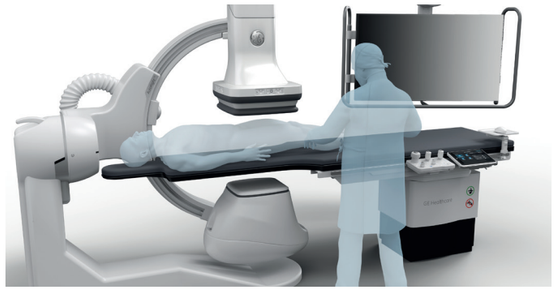
Comfort and Control, wherever you are

Easy patient access and wide anatomy coverage
at each and every working position

Head to groin imaging without moving the gantry, due to the offset C-arm design



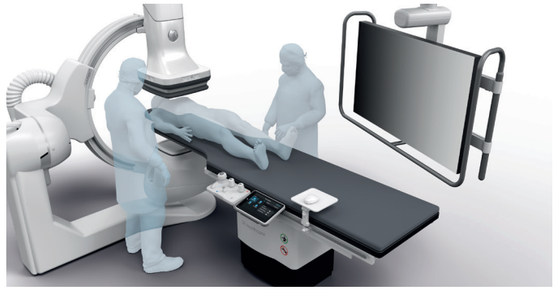
Complete head and neck access with gantry positioned on left or right



Full left side access with gantry positioning on the right



Compact Control and Touch Panel, mounted at tableside to maximize flexibility



Direct access from detector to C-arm, table and detector motions



Lower Limbs Imaging





Each time you enter, it’s your room

Advanced personalization of your workplace

Allia personalizes your workplace to adapt to your clinical needs and preferences

- Work in full comfort and control with compact personalized user interfaces
- Your own profile tailored to your needs and preferences
- Up to 50 personalized user profiles
- Direct access from homepage to several parameters such as (DSA parameters, CBCT preset parameters)



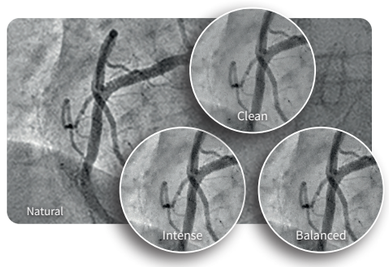
Allia provides personalized profiles tailored to your needs

- Customizable content and layout for 1-click access to essential functions, such as:
  - Acquisition parameters
  - Review controls
- Increased operating comfort with smartphone-like interactions on the Touch Panel



Allia adapts to your image preferences

- With myIQ, choose at table side between four predefined image looks optimized for cardiology
- Select in only one click your favorite image style without increasing the dose
- You are in control. Change the image look whenever you want without the intervention of a technician



Allia provides commands at your fingertip wherever you are

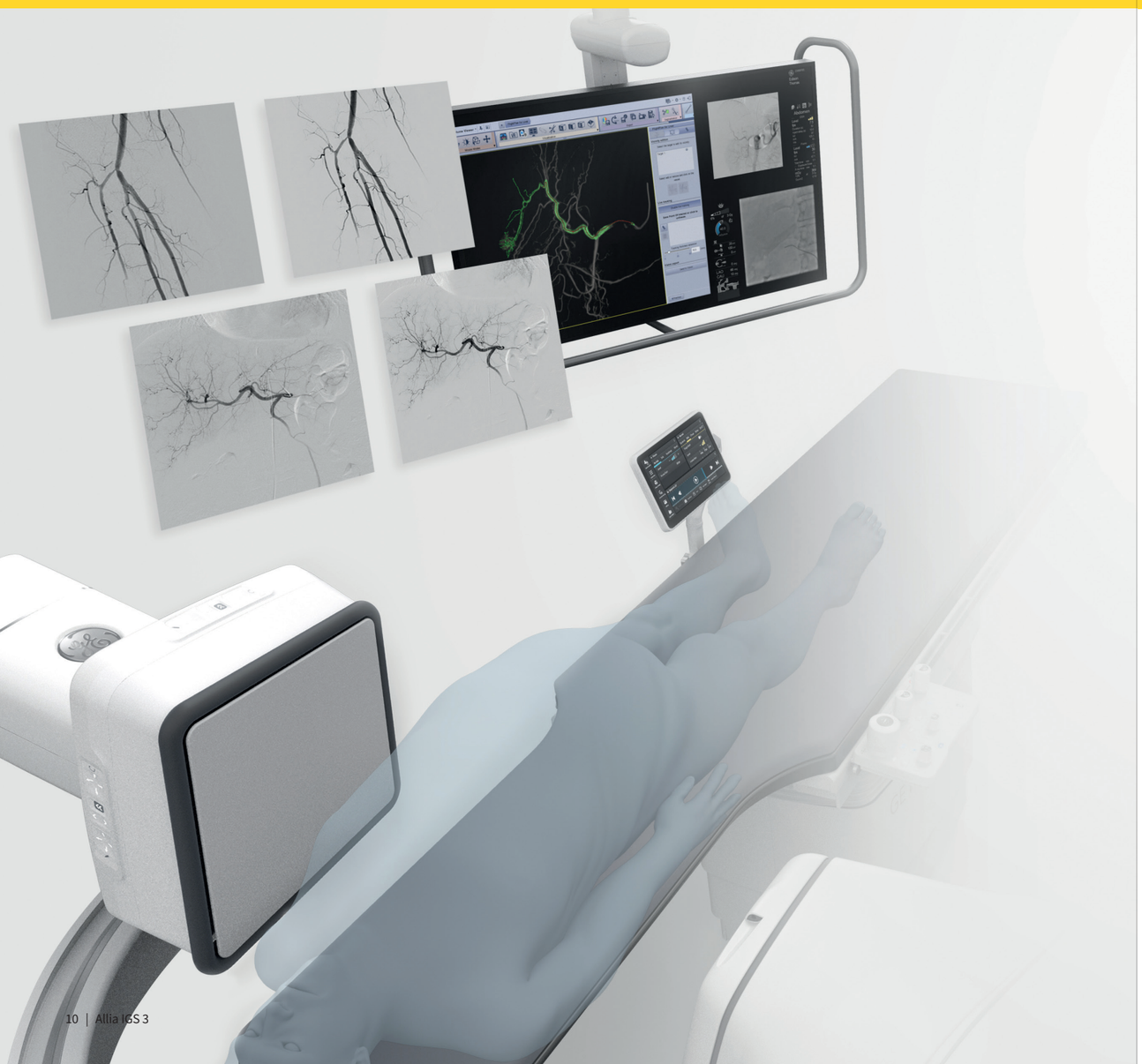
- Compact and flexible user interface at tableside or on flexible arm support
- Direct access on detector for C-arm, table and detector motions
- Natural movements of table and gantry with hand detection technology
- Robotic gantry auto-positioning, always adapting to your clinical needs
- Gantry and table positions tailored to your profile to simplify your workflow





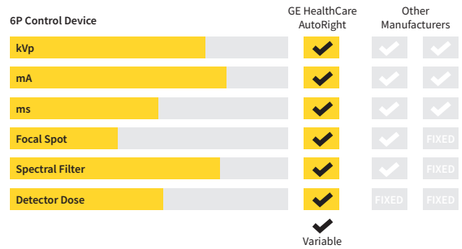
Let the AI assistant optimize IQ/Dose for you





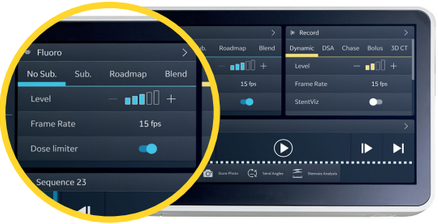
Allia provides the right image at the right dose automatically

- AutoRight[3], the 1st AI-based, interventional image chain in the industry[4], trained on 6,000+ datasets
- Automatic adjustment of up to 6 parameters in real time to optimize image quality and dose



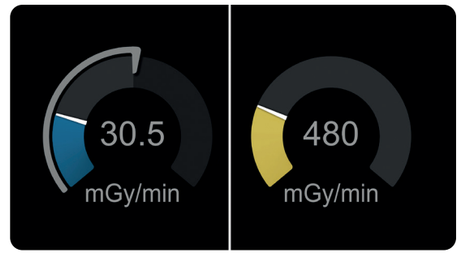
Allia provides an intuitive cockpit to manage your image quality

- Interactive control of the IQ/dose trade-off with AutoRight cockpit[3]
- One touch access to the full image quality range within any protocol[5]



Allia provides an intuitive cockpit for dose awareness and control

- Graphical color-coded display of real-time dose rate for immediate visual feedback
- Dose limiter function for addition alone-touch control of maximal fluoroscopic dose rate limit



Allia provides Dose Map for additional dose awareness

- Dose Map Offers visualization of estimated local cumulated dose all along the exam
- Provides alerts if estimated local cumulated dose exceeds the pre-defined dose threshold
- Offers a visual map that can help reduce the estimated cumulated radiation dose received at a surface representative of the patient's skin



Offering access to 3D imaging

Easy CBCT adoption with 3D presets
Simplified workflows to adopt advanced imaging



Clinical Versatility

Allia IGS 3 gives you access to a large variety of clinical tools tailored to answer your daily needs in a wide variety of procedures:
Cardiovascular Applications - Cardiac Catheterization Applications - Neurointerventional Applications

2D Applications

InnovaChase™

InnovaChase is a dynamic, unsubtracted acquisition at a fixed frame rate of 5 fps with manual and remote panning of the table. It is optimized for visualization of a run off.

Quantitative Analysis Package[6]

Stenosis Analysis[6] and Left Ventricle Analysis[6] allow the user to perform stenosis and left ventricle measurements and analysis.
With One Touch QA[6], the user can select measurement points with a fingertip directly on the selected image frame displayed on the Touch Panel at tableside – no mouse or joystick is required.

One Touch QA is available for stenosis analysis and distance measurements.

PCI ASSIST 2[6]

PCI ASSIST 2 is an ASSIST package containing StentViz and StentVesselViz applications and including High Contrast Fluoro which decreases the pulse width by 38%.
While the dose is equivalent, it is delivered in an efficient way that helps significantly reduce the blurring in the image due to organ motion.
With PCI ASSIST 2, our StentViz enhancement algorithm has been improved to better operate in complex bifurcation.

ECG acquisition package[6]

With the ECG acquisition package the heart rate is displayed on the console and live monitor and signals are exported in DICOM format.
The ECG acquisition package is compatible with recording system outputs providing analog ECG signals comprised between +/-5 V.
Connection cables compatible with Mac-Lab™[6,8], CardioLab™[6,8], Combolab[6,8] and some third party recording systems are provided with this package.

Blended Roadmap[6]

Blended Roadmap is a vascular road mapping application that superimposes a previously acquired vascular image over live fluoroscopy. This advanced application helps clinicians view the progression of guidewires and devices through the vessels.

Advantage Paste[7,8]

Advantage paste is an application running on AW VolumeShare Workstation that provides the ability to reconstruct and visualize the entire length of the subtracted bolus chasing acquisition on a single image.

InnovaSpin™[6]

The offset C-arm permits fast-spin rotational angiography over a maximum range of 200° at variable speeds from 20° to 40°/sec (maximum speed of 30°/sec from LAO to RAO) with flexible cranio/caudal oblique angulations.
The enhanced InnovaSpin trajectories are not constrained to a single transverse plane and can be used at oblique angulations within physical constraints. A total of seven trajectories can be preset. The entire workflow for the test run and spin acquisition can take place at tableside.
The spin acquisitions can either be performed in the cardiac record mode for coronaries, or in the InnovaChase mode for peripheral procedures.

AngioViz[6,7]

AngioViz enables Vascular Flow vizualisation, displays a DSA series in one color image.
It automatically synchronizes different DSA series for flow comparison and helps you analyze complex flow pattern of several anatomical regions.

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3D Applications

3DCT [6,9]

3DCT is intended for imaging vessels, bone and other internal body structures. It helps physicians in diagnosis, surgical planning, interventional procedures and treatment follow-up. 3DCT performs at 40°/sec and can be used with 4 different field of views. It utilizes automatic exposure technique to optimize image quality and dose all along the rotational acquisition.

3DCT HD [6,9]

3DCT HD is intended for imaging vessels, bone, soft tissues, and other internal body structures. It helps physicians in diagnosis, surgical planning, interventional procedures and treatment follow-up. 3DCT HD offers 3 rotation speeds: 16, 28 and 40°/sec, and 4 different field of views. It utilizes automatic exposure technique to optimize image quality and dose all along the rotational acquisition.

Vision 2 [9]

Allia™ IGS 3 facilitates the adoption of augmented image guidance in daily practice.
Thanks to seamless integration on Touch Panel, 2D and 3D guidance are now available at your fingertips. The simplified workflow allows to perform complex procedures.



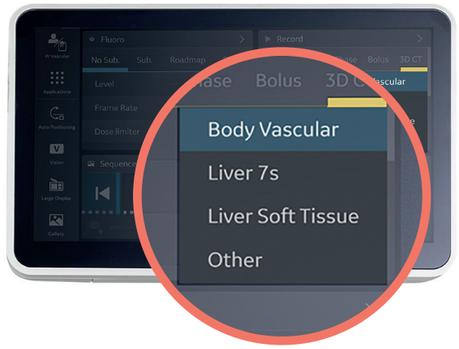
Offering access to 3D imaging

Easy CBCT adoption with 3D presets
Simplified workflows to adopt advanced imaging



Allia helps you standardize CBCT in your daily practice with 3D Presets

- Optimized CBCT imaging parameters with 3D presets that you can reach from your personalized homepage
- Easy adoption with accelerated learning curve for staff



Allia enables consistent 3D image quality down to the pelvic area

- 200 degrees rotation for 3D acquisition down to the pelvis anatomy
- Rotation with intubated patient



Allia enables CBCT review, planning and image guidance directly at tableside

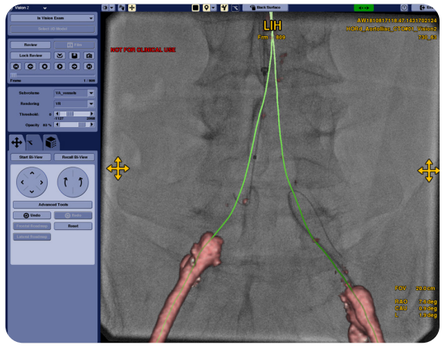
- Full image review capabilities with in-room mouse[6] without breaking scrub
- Smartphone-like interaction on Touch Panel

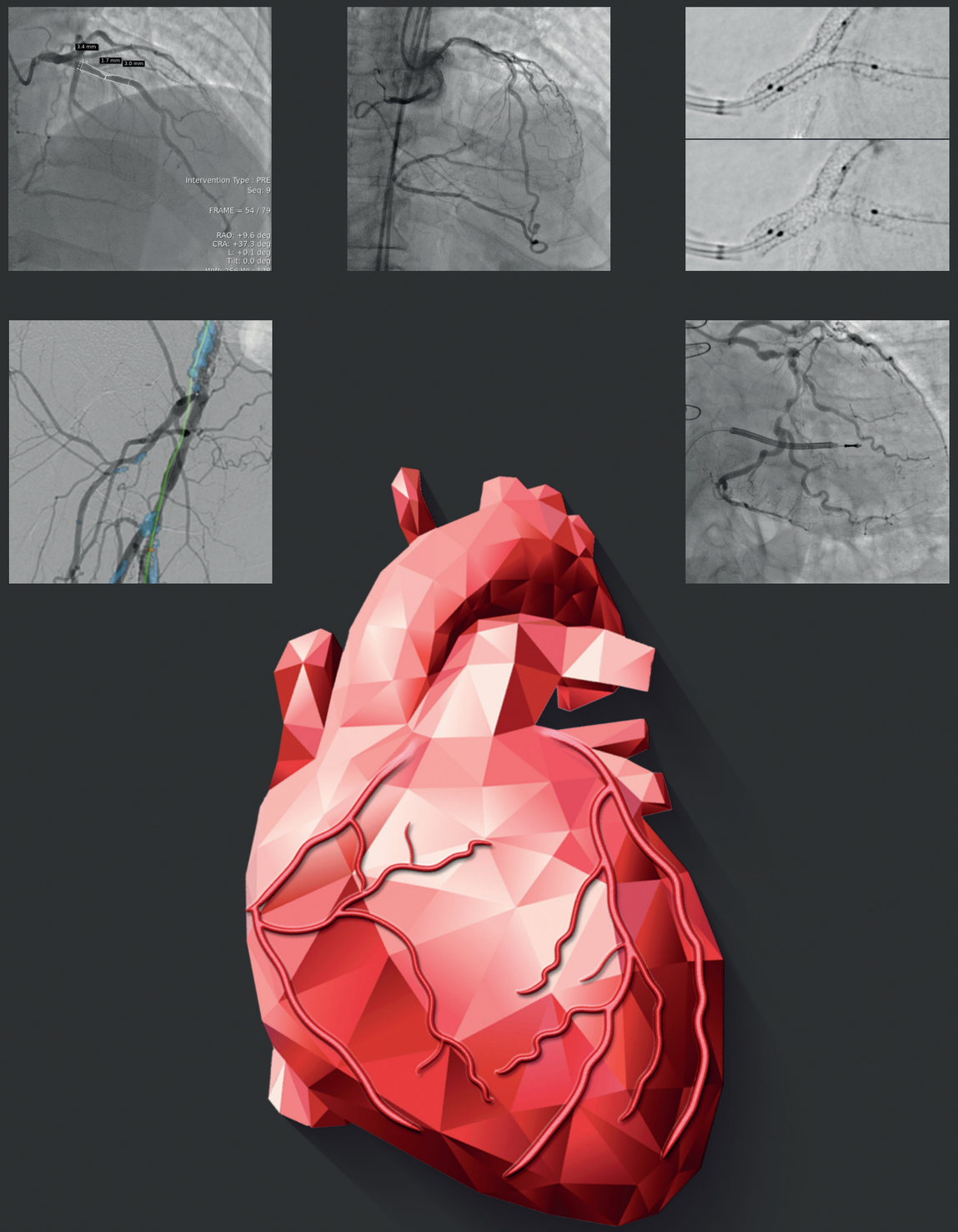


Allia augments your outcomes by using Augmented Reality with Vision 2

Image fusion can be used as the live augmented image guidance for enhanced operator comfort.

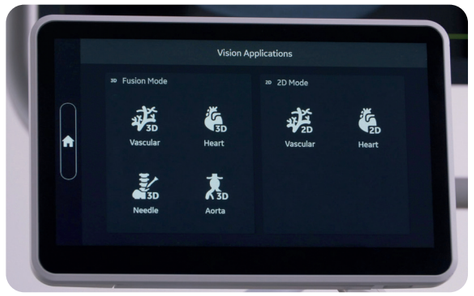
Intuitive solutions help achieve up to 99% radiation dose savings when fusing a pre-operative 3D model over fluoroscopy[9].





Allows access to 3D imaging

PCI



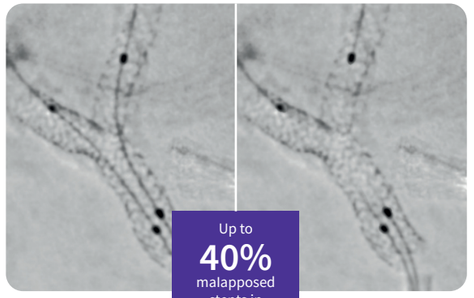
Allia facilitates adoption of augmented image guidance in daily practice

- Augmented 2D and 3D guidance at your fingertips thanks to seamless integration on Touch Panel
- Simplified workflow to perform complex procedures



Allia brings quantitative analysis with One Touch QA

- One click access from Touch Panel
- Helps you plan the optimal sized stent or device by allowing for an estimation of distances and stenosis ratio



Allia brings augmented 2D image guidance with PCI ASSIST 2[10]

- Helps to increase positioning accuracy and confidence in multiple stent positioning
- Enhances the visibility of both stents in a bifurcation thanks to our improved StentViz algorithm
- Saves time thanks to an automatic single acquisition workflow
- Improve anatomical visibility by up to 85%[10] in moving arteries at the same dose

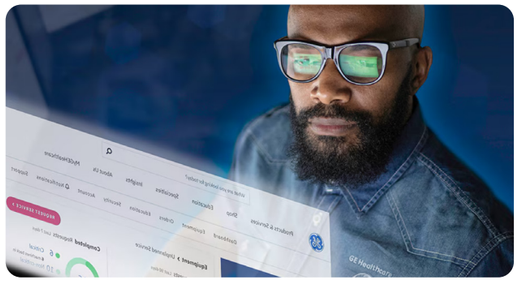
Optimize your investment

With innovative services



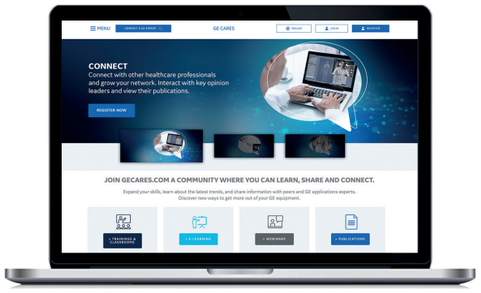
Empower data security with IGSDefense

The IGS system incorporates IGSDefense, our multi-layer approach to cybersecurity and data privacy, to help protect the IGS system operation and patient data from cyber threats and unauthorized access.



Convert unplanned downtime into planned downtime thanks to OnWatch [11]

- Likeliness of failures of your system limited thanks to OnWatch parameters monitoring
- Efficiency maximized by helping to ensure that your system is fully functional when you need it
- Costs associated with downtime reduced to minimum



Optimize your performance with continuous and customizable clinical application training

- 350 accredited education programs[12] available at customer/GE HealthCare site and remotely
- GE Cares Community membership to increase your professional skills
- Join the community at www.gecares.com





Allia IGS 3

Augment imaging.
Enhance experience.
Improve outcomes.

References

1. 47%, according GE sponsored blind survey conducted with 180 Interventional Cardiologists, Interventional Radiologists, and Vascular Surgeons in the US and Europe.
2. https://www.gehealthcare.com/products/image-guiding-solutions/autoright
3. AutoRight refers to intelligent image chain features of GEHC's Interventional x-ray systems, from image acquisition to image processing and display, available on Allia IGS 3. May not be available on all markets.
4. Based on competitive research, among major players in interventional imaging.
5. With IntelIQ auto-exposure preference.
6. Option.
7. Requires AW.
8. Other Device or option not covered by Allia IGS 3 regulatory authorization IGS system refers to Allia IGS 3 system.
9. Based on the dose of the procedure step needed using a CBCT acquisition to register pre-operative data vs. a Bi-View registration process. The stated dose reduction does not reflect the entire interventional procedure, rather to a specific step in the procedure. The dose for the CBCT acquisition is from typical exposure settings (3D CT 40°/s, 50fps, IntelIQ Level 4, Normal, Nominal FOV). The dose from the Bi-View registration process is from two spatially separated, 2-seconds fluoroscopic acquisitions, with typical exposure settings (3.75 fps, IntelIQ Level 4, Normal, Max Dose Reduction, Nominal FOV). The dose data for all acquisitions are from the Air Kerma per IEC 60601-2-43 conditions, provided in the interventional X-Ray user manual. In clinical practice, the use of Vision 2 may reduce patient radiation dose depending on the clinical task, patient size, anatomical location and clinical practice.
10. Improvement vs. same test without HCF option. IQ improvement is measured on Innova IGS530 with phantoms using various Plexiglas. Thicknesses, acquisition parameters and the NEMA spoke wheel tool (ref 1), calculating the ratio of the contrast of the moving wires to the background noise level. The amount of IQ improvement related to HCF depends on the acquisition parameters, clinical task, patient size, amount of motion in the image, anatomical location, and clinical practice. Ref1: A new tool for benchmarking cardiovascular fluoroscopes; S. Balter, Radiation Protection Dosimetry, Vol. 94, No. 1–2 pp. 161–166 (2001).
11. OnWatch is an optional feature, not available in all countries and sold separately.
12. These results may not be typical for all customers and are not guaranteed. This statistic is derived from GE HealthCare Internal Data. 42 education programs were performed in Interventional Imaging.

About GE HealthCare Technologies Inc.

GE HealthCare is a leading global medical technology, pharmaceutical diagnostics, and digital solutions innovator, dedicated to providing integrated solutions, services, and data analytics to make hospitals 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 the care pathway. Together our Imaging, Ultrasound, Patient Care Solutions, and Pharmaceutical Diagnostics businesses help improve patient care from diagnosis, to therapy, to monitoring. We are a $19.6 billion business with approximately 51,000 colleagues working to create a world where healthcare has no limits.

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