



GE HealthCare

Allia™ IGS 5

For Interventional Cardiology

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



Evolving minimally invasive therapies bring new challenges

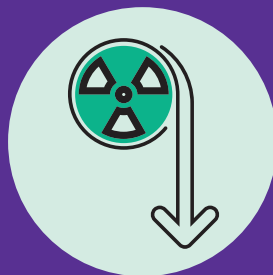
Clinical & operational efficiency

Setting up the workspace to suit unique preferences is complex and time-consuming for the cardiologist.



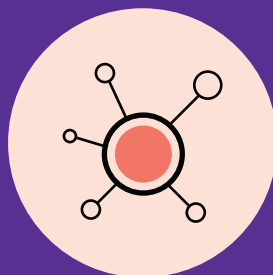
Optimal image quality at the lowest possible dose

Cardiologists need to focus on the patient and the procedure, not on setting the parameters for optimal image quality and dose.



Expanding practice and integrated ecosystem

Cardiology practices are expanding for PCI, Peripheral, EP and SH, increasing in complexity and in need of more advanced imaging and measurement tools.



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

Allia™ IGS 5



With Allia™ IGS 5, we're introducing
an assistant, a new team member present
when and where you need it.

Each time you enter, it's your room

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



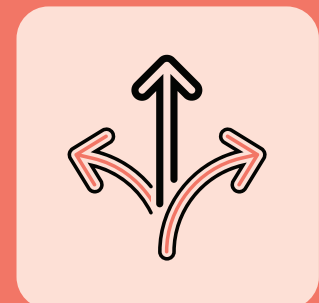
Let the AI assistant optimize IQ/Dose for you

Provides the right image at the right
dose automatically, with unique¹ dose
awareness and dose limiting technology.



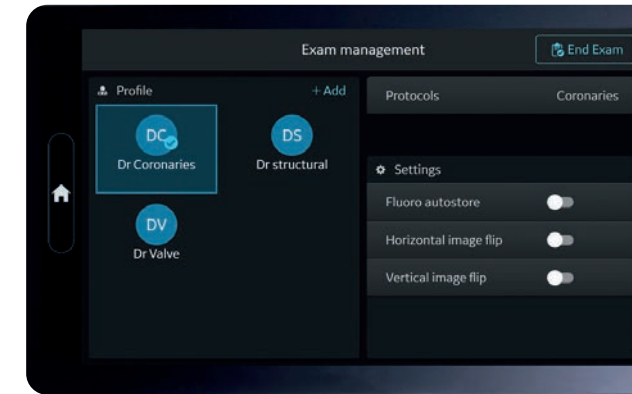
Freedom of choice with multi-modality integration

Enables you to easily integrate and
connect with other imaging sources such
as OCT, IVUS, FFR, QFR, and Echo.



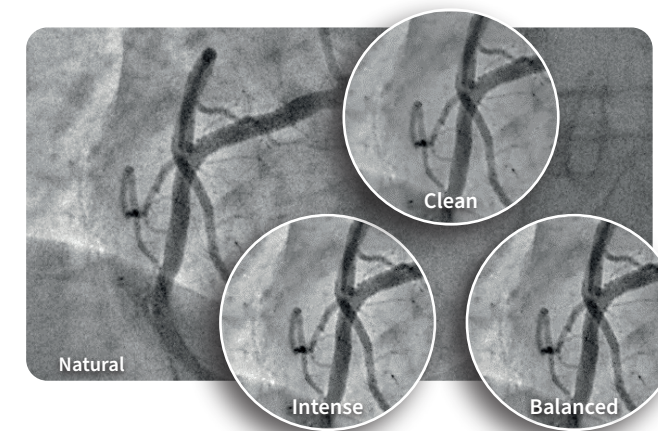
Each time you enter, it's your room

Advanced personalization of your workplace



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

- Work in full comfort and control with compact personalized user interfaces
- Your own profile tailored to your needs & preferences
- Up to 50 personalized user profiles



Allia adapts to your image preferences

- With myIQ⁺, choose at table side between four predefined image looks optimized for cardiology²
- 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 personalized profiles tailored to your needs

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



Allia provides commands at your fingertip wherever you are

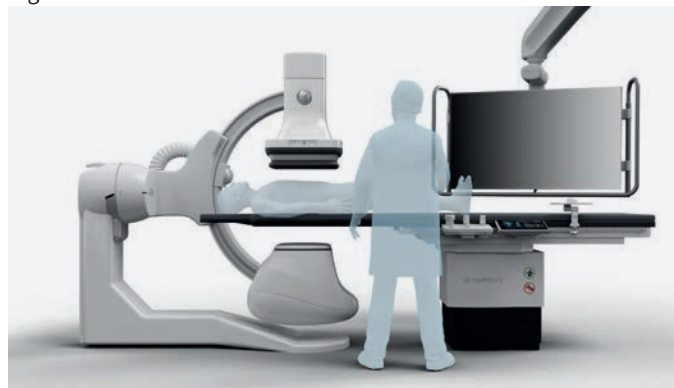
- Compact and flexible user interface at table side or on flexible arm support
- Direct access on detector for C-arm, table³ and detector motions
- IGS Control Center⁴ for ergonomic access from any position

IGS 520 configuration equipped with 20 cm detector, IGS 530 configuration equipped with 30 cm detector
System comes with Omega table (Omega IV table is only available with 20 cm configuration) or with InnovalQ table.

Each time you enter, it's your room

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

Right Radial Access



Left Radial Access



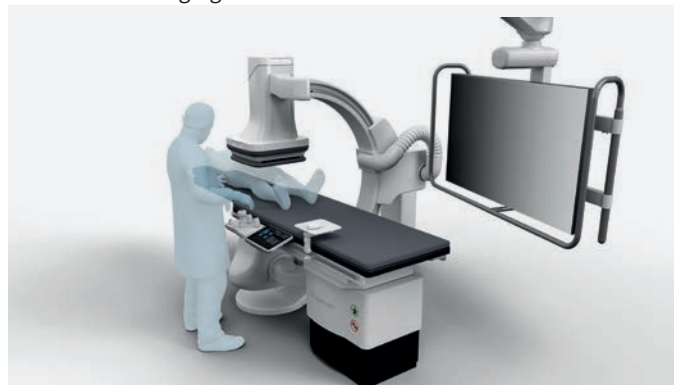
Structural Heart Imaging



Right Femoral Access



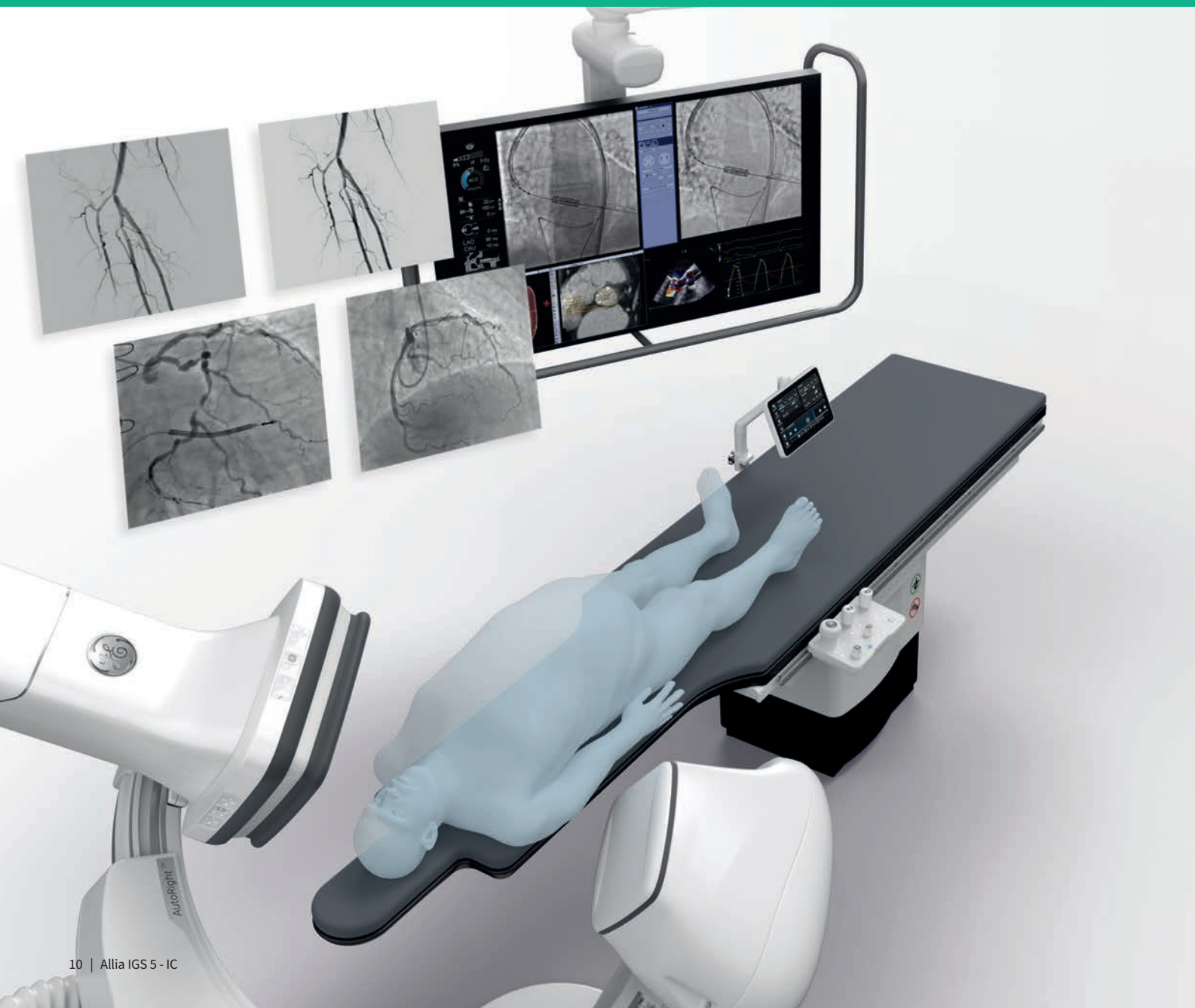
Lower Limbs Imaging



CRM Device Access



Let the AI assistant optimize IQ/Dose for you



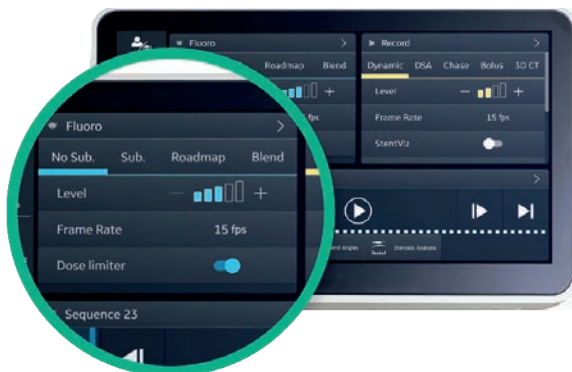
Allia provides the right image at the right dose automatically

- AutoRight, the 1st AI-based interventional image chain in the industry^{5,6} trained on 6,000+ datasets
- Automatic adjustment of up to 7 parameters⁷ in real time to optimize image quality and dose

6P Control Device	GE HealthCare AutoRight	Other Manufacturers	
kVp	✓	✓	✓
mA	✓	✓	✓
ms	✓	✓	✓
Focal Spot	✓	✓	FIXED
Spectral Filter	✓	✓	FIXED
Detector Dose	✓	FIXED	FIXED
Variable			

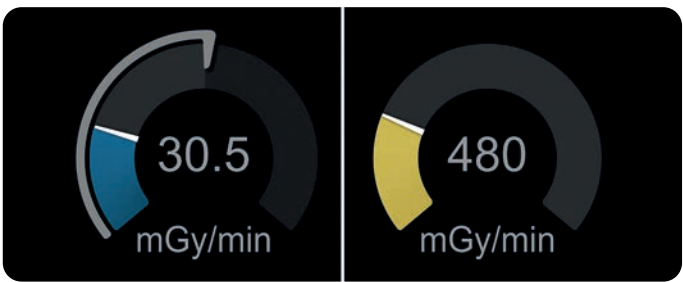
Allia provides an intuitive cockpit to manage your image quality

- Interactive control of the IQ/dose trade-off with AutoRight cockpit⁵
- One touch access to the full image quality range within any protocol⁸



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 additional one-touch control of maximal fluoroscopic dose rate limit



Let the AI assistant optimize IQ/Dose for you



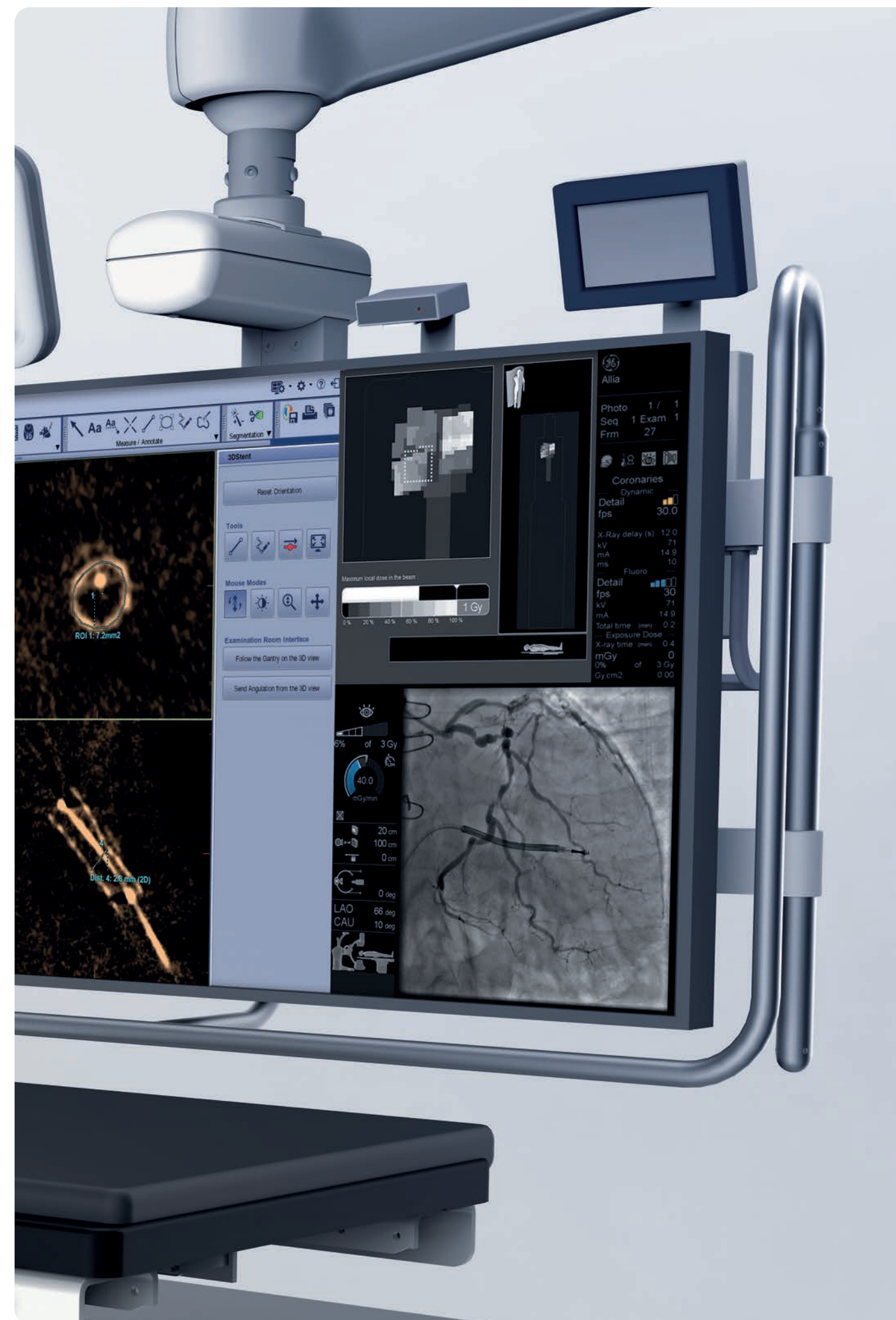
Allia provides InnovaSense™, an intelligent algorithm that minimizes source to image distance

- AutoRight controls the source to image distance
- InnovaSense is an advanced patient contouring technology:
 - Uses an intelligent algorithm during gantry motion
 - Minimizes the distance between the detector and the patient automatically, when repositioning the table and gantry
 - Up to 25% of the dose rate can be saved⁹



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



Freedom of choice with multi-modality integration



Allia gives you access to hemodynamics and intra-vascular imaging

- Natural connectivity between Allia and Mac-Lab™ to control hemodynamic recordings from table side Touch Panel
- Mac-Lab FFR option takes place of a separate FFR analyzer and makes FFR just another measurement



Allia provides integrated ecosystem at your fingertips

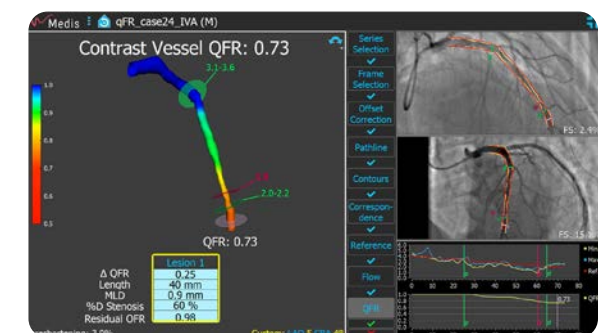
- Advanced intravascular imaging integration with Abbott OPTIS™ OCT, enabling co-registration between OCT and angiography image to optimize your PCI workflow
- Connect with the Boston Scientific POLARIS PCI Guidance System so IVUS/FFR images can be displayed on the IGS Large Display Monitor¹⁰

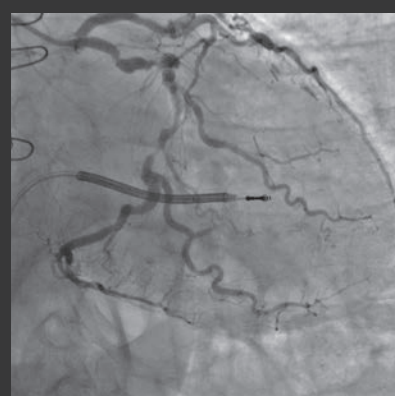
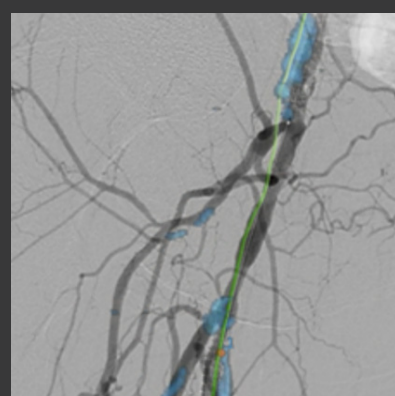
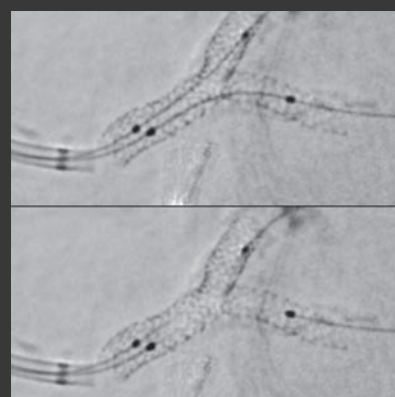
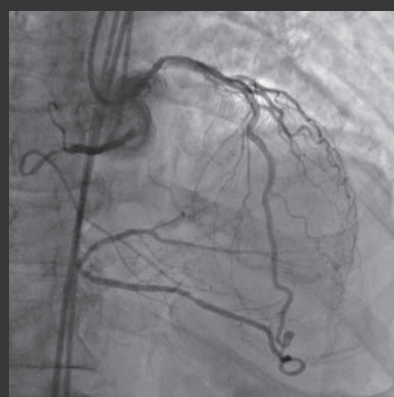


Allia facilitates workflows to adopt Angio-based FFR¹¹

Allia offers you an exclusive integration of Medis QFR®

- QFR® from Medis is a non-invasive, image-based tool that can accurately and rapidly compute FFR, without the need for a pressure wire, nor hyperemic drug
- Exclusive integration of Allia and Medis QFR software provides an optimized workflow





Augment your outcomes with Augmented Reality

PCI



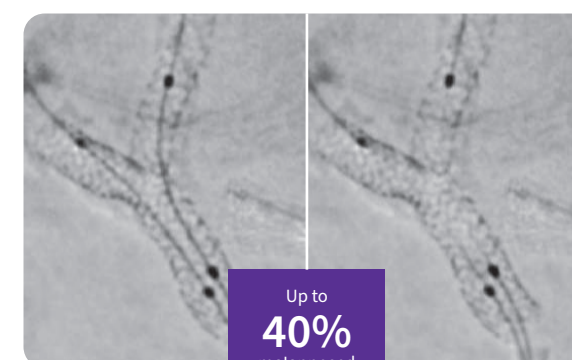
Allia facilitates adoption of augmented image guidance in daily practice

- Augmented 2D & 3D guidance at your fingertips thanks to seamless integration on Touch Panel
- Simplified workflow to perform complex procedures
- Intuitive ASSIST solutions¹² while significantly reducing radiation dose & contrast media^{13,14}



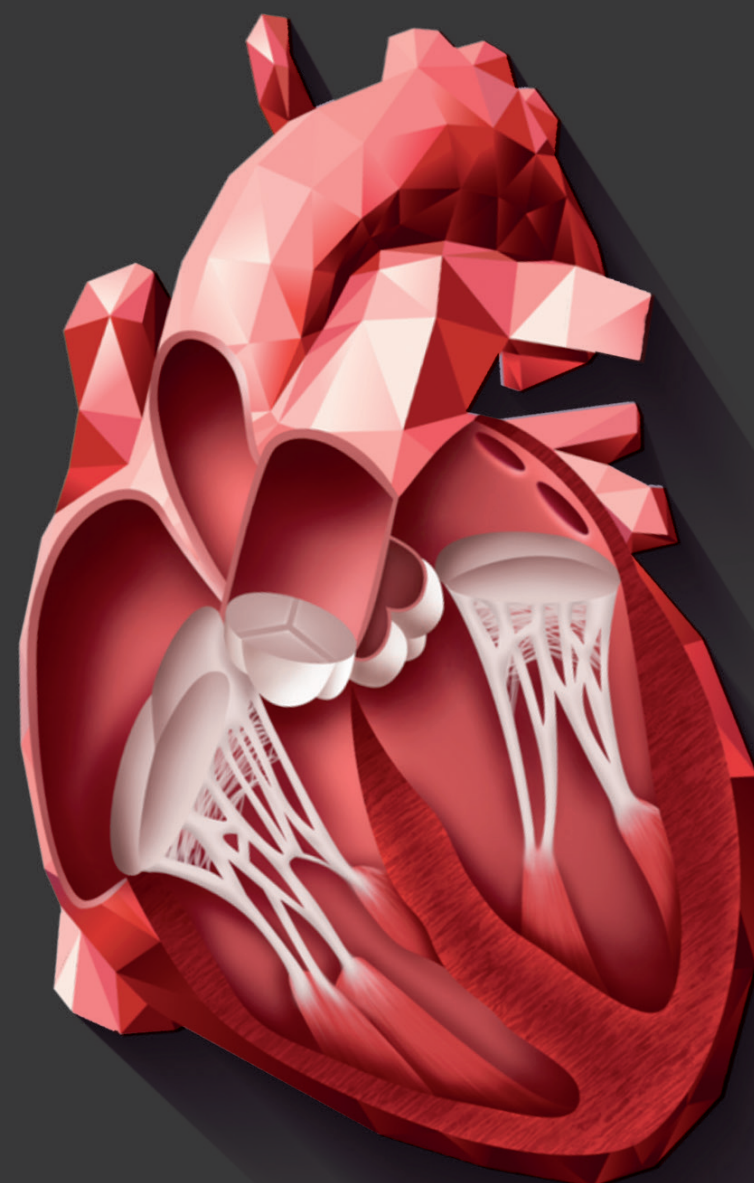
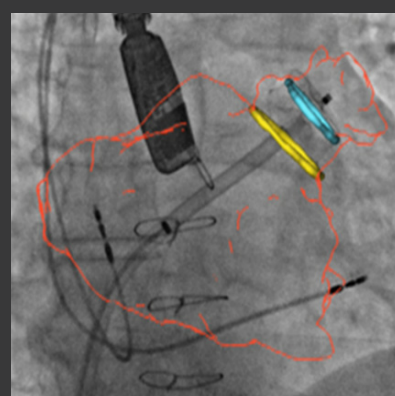
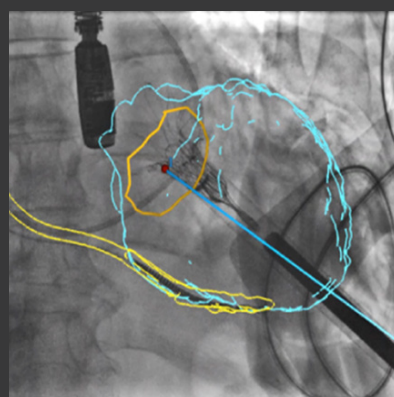
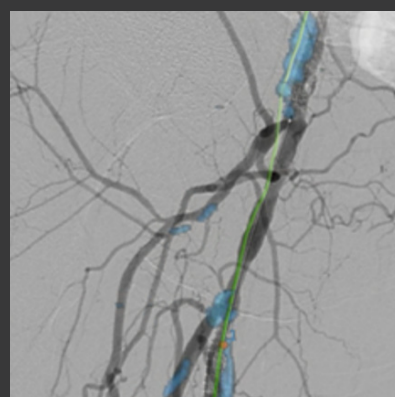
Allia brings quantitative analysis with One Touch QA

- 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 2¹⁵

- 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%¹⁷ in moving arteries at the same dose



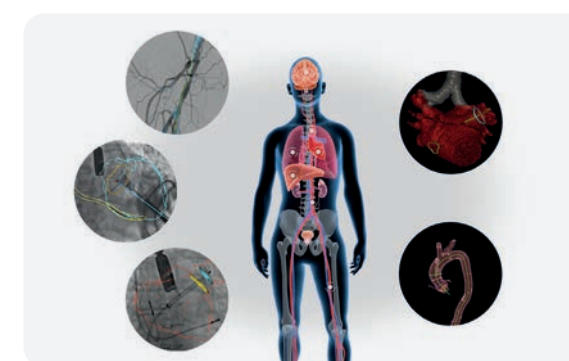
Augment your outcomes with Augmented Reality

Structural Heart



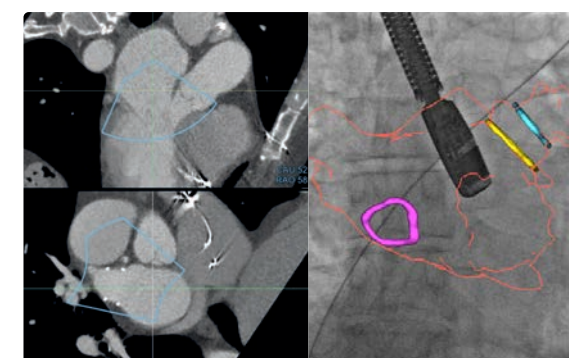
Allia brings augmented 2D image guidance with Valve ASSIST 2¹⁸

- Get access to Digital Zoom to increase visual comfort without increasing radiation dose
- One touch Calcification Enhancement to improve visualization of moving contrasted structures during structural heart procedures



Allia brings augmented 3D image guidance with ASSIST¹²

- Intuitive planning tools for structural heart procedures
- Allia helps improve patient outcomes:
 - -33% volume of contrast media¹⁹ and -33% X-ray dose²⁰ in TAVI procedures
 - -78% volume of contrast media, -28% procedure time and -25% fluoroscopy time in LAAC procedures²¹

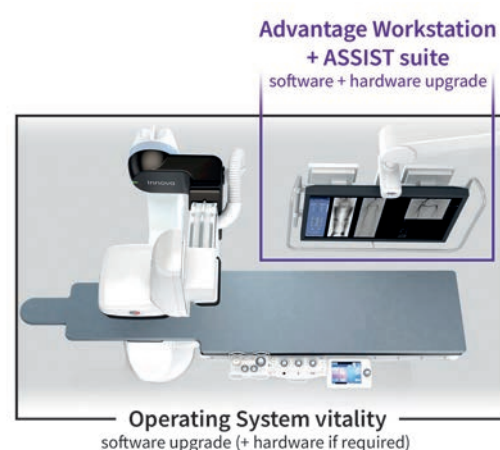


Allia helps guide structural heart procedures with multi-modality fusion

- INTERACT View-X²² enables the display of CT/X-Ray images on Echo screen, to enhance communication within the heart team
- INTERACT Structural Heart²³ enables you to use the best from each image at every moment of the procedure for best decision making
- Import 3mensio²⁴ planning landmarks to guide your complex structural procedures

Optimize your investment

With innovative services



Keep your clinical and operational capabilities updated with Continuity™

- Your investment kept up to date over the lifecycle
- Life of your interventional system extended
- Regular security updates provided to your operating system



Convert unplanned downtime into planned downtime thanks to OnWatch

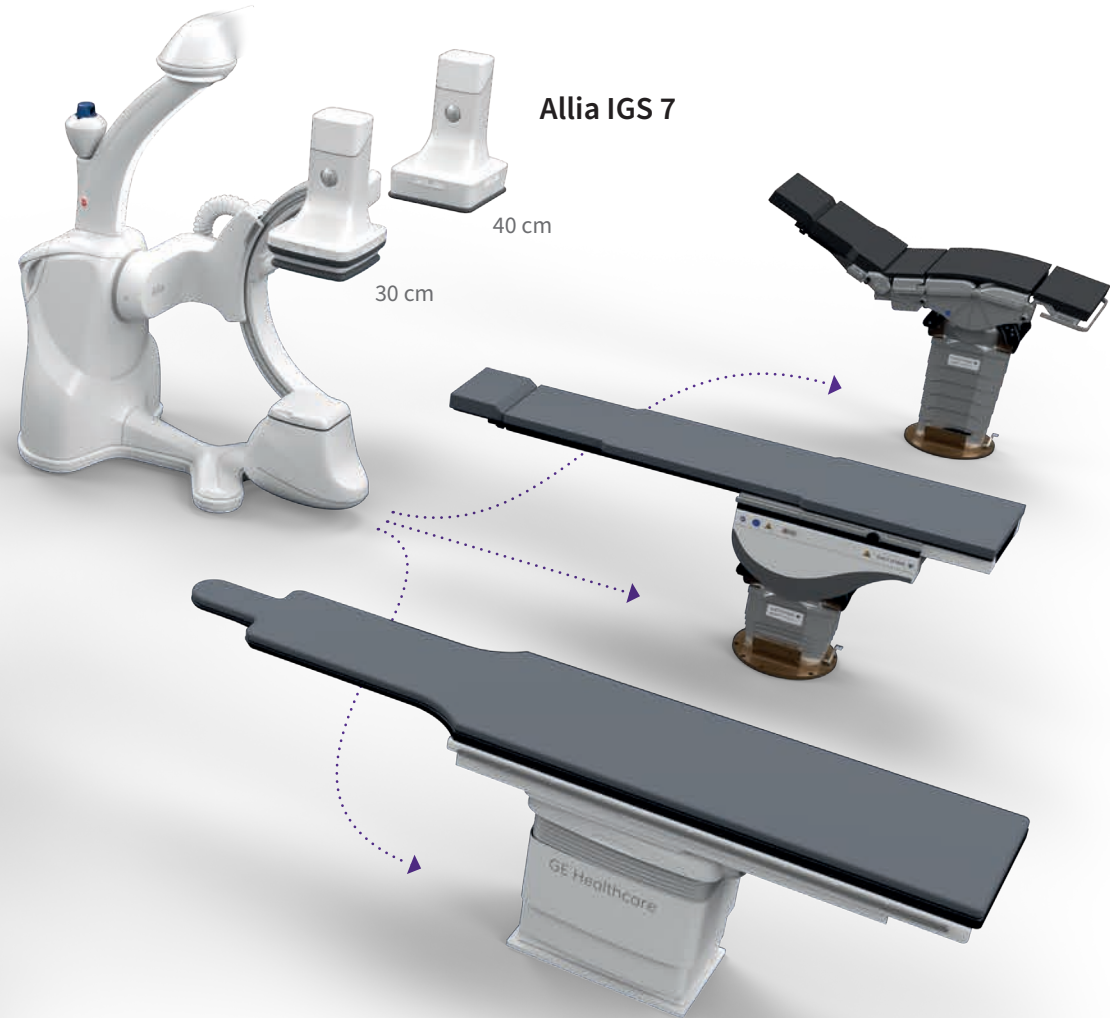
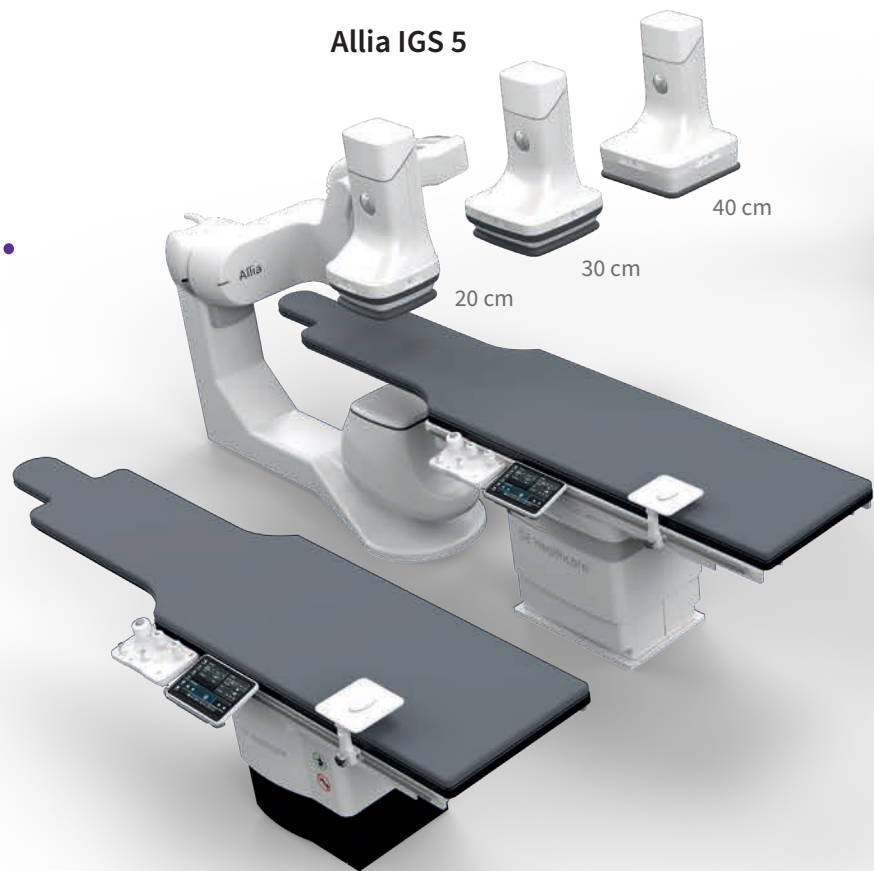
- Likelihood of failures of your system limited thanks to OnWatch²⁵ parameters monitoring
- Efficiency maximized by helping to ensure that your system is fully functional when you need it
- Costs associated with downtime reduced to minimum

Optimize your performance with continuous and customizable clinical application training

- 350 accredited education programs²⁶ available at customer/GE HealthCare site and remotely
- GE Cares Community membership to increase your professional skills
- Join the community at www.gecares.com



Augment imaging.
Enhance experience.
Improve outcomes.



References

Allia refers to Allia IGS 5

* The feature cannot be placed on the market or put into service until it has been made to comply with the requirements for CE marking.

- <https://www.gehealthcare.com/products/interventional-image-guided-systems/autoright>
- Not applicable with SV/SVV applications.
- Table motion not available for IGS 520 configuration.
- Option available with Innova-IQ table.
- AutoRight refers to intelligent image chain features of GE HealthCare’s Interventional x-ray systems, from image acquisition to image processing and display, available on Allia IGS 5. May not be available in all markets.
- Based on competitive research, among major players in interventional imaging.
- One of the parameters is InnovaSense, an option applicable to Allia IGS 5 (IGS 520 and IGS 530 configurations).
- With IntelliQ auto-exposure preference.
- InnovaSense enables users to maintain an average SID of 105 cm: Didier et al., The utilisation of the cardiovascular automated radiation reduction X-ray system (CARS) in the cardiac catheterization laboratory aids in the reduction of the patient radiation dose, EuroIntervention 2016. Decreasing SID from 120 cm to 105 cm reduces the dose rate by 25%, simulated with the user working at max SID (120 cm) instead of optimized SID obtained with InnovaSense on an Innova IGS 520. Option available in IGS 520 and IGS 530 configuration.
- The Large Display Monitor provides a connection but does not ensure an equivalent image quality and a frequency match; this display is for information and shall not be used for diagnostic purpose. Check that there is no degradation of the signal on the Large Display Monitor before using it. Always refer to the primary display of the connected external imaging devices.
- QFR Analysis is included in QAngio XA 3D software, supplied by Medis medical imaging bv manufacturer and it is operating on a separate hardware. Not available in all countries. It is compatible with Innova IGS 5, Innova IGS 6, Discovery IGS 7, Discovery IGS 7 OR, Allia IGS 7, Allia IGS 7 OR and Allia IGS 5.
- ASSIST solutions are composed of multiple medical devices. For more information, please refer to GE HealthCare’s web site. www.gehealthcare.com/assist
- Outcomes will vary depending on the system, settings, clinical task, patient size, anatomical location, clinical practice and ASSIST solutions.
- Performance obtained from following publicly available peer reviewed papers: Novel integrated 3DCT and fluoroscopy fusion for LAAC. Value of Image Fusion Coronary angiography for the detection of CABG, Impact of Hybrid rooms with Image fusion on radiation exposure during

endovascular Aortic repair, Percutaneous Bone Biopsies: comparison between CBCT and CT guidance, Significant patient radiation exposure reduction during complex liver IR procedures using a new generation angiography imaging room, Comparison of the number of image acquisitions and procedural time required for TACE of Hepatocellular Carcinoma with and without tumor feeder detection SW.

- PCI ASSIST 2 solution includes StentViz and StentVesselViz features of Allia.
- ‘Source: Crush, Culotte, T and Protrusion: Which 2-Stent Technique for Treatment of True Bifurcation Lesions <https://www.ncbi.nlm.nih.gov/pubmed/23006784>
- 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). Applicable to Allia IGS 5 (IGS 520 and IGS 530 configurations) and Allia IGS 7 (IGS 730 configuration).
- Valve ASSIST 2 solution includes TAVI Analysis, HeartVision 2 and requires AW workstation with Volume Viewer, Volume Viewer Innova. These applications are sold separately.
- Shafiq, et al. Effect of a new enhanced fluoroscopy technology (Valve ASSIST 2) on outcomes in patients undergoing trans-catheter aortic valvular replacement. TCT 2017; Abstract.
- Overtchouk, et al. Advanced image processing with fusion and calcification enhancement in transcatheter aortic valve implantation: impact on radiation exposure. Interactive CardioVascular and Thoracic Surgery (2018) 1–8. doi:10.1093/icvts/ivy136.
- Roy, et al. Novel Integrated 3D Multi-Detector Computed Tomography and Fluoroscopy Fusion for Left Atrial Appendage Occlusion Procedures . Catheter Cardiovasc Interv2017;Mar 17, DOI:10.1002/ccd.26998.
- INTERACT ViewX is a connection kit to display Interventional images on the GE HealthCare Ultrasound system display. Requires Vivid E95 systems or Vivid S70N systems sold separately. Requires Interventional X-ray systems Allia IGS 5, Allia IGS 7 or Allia IGS 7 OR. Not all products are available in all countries. For more information about products and services that are available in your country, please contact your GE HealthCare sales representative.
- INTERACT Structural Heart solution includes Valve ASSIST 2 and Vivid™ CT-Fusion.
- 3mensio is a product line of Pie Medical imaging corporation.
- OnWatch is an optional feature, not available in all countries and sold separately.
- 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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