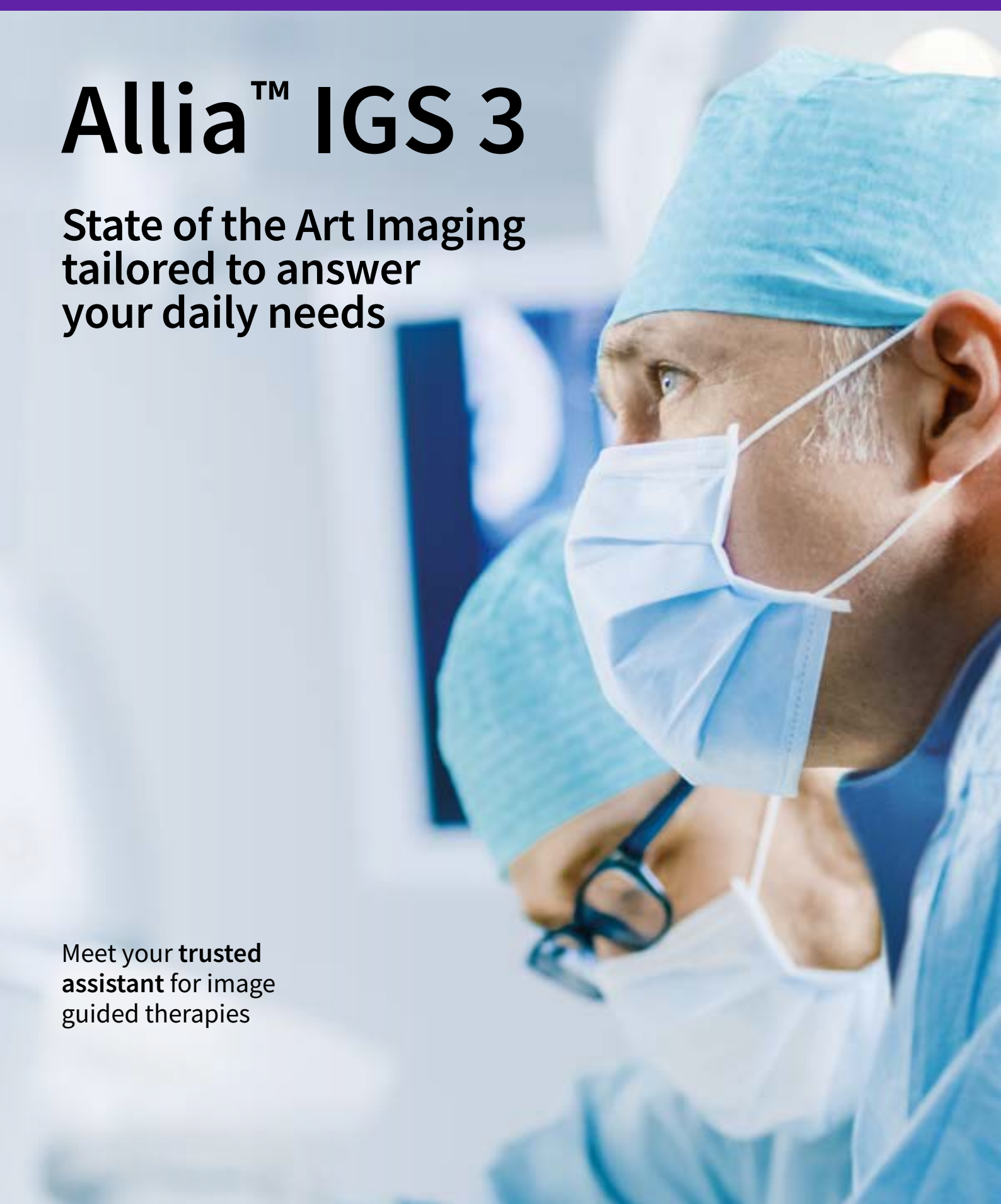




Allia™ IGS 3

State of the Art Imaging
tailored to answer
your daily needs

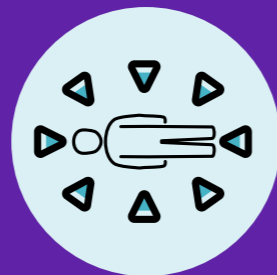
Meet your **trusted
assistant** for image
guided therapies



Evolving minimally invasive therapies bring new challenges

Diverse patient access

Nearly 50% of procedures¹ are performed at working positions where clinicians have poor access to user interface, functions and display.



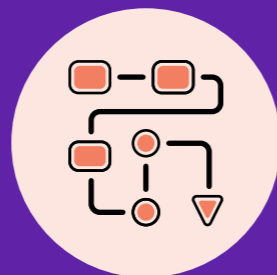
Varied clinical practice

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

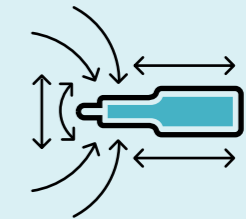
Allia™ IGS 3



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.



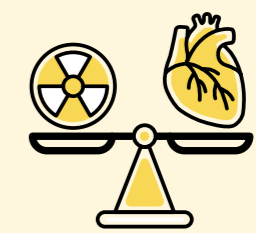
Each time you enter, it's your room

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



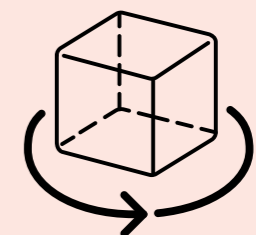
Let the AI assistant optimize IQ/Dose for you

Provides the right image at the right
dose automatically, with unique² dose
awareness and dose limiting technology.



Augment your outcomes with Augmented reality

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



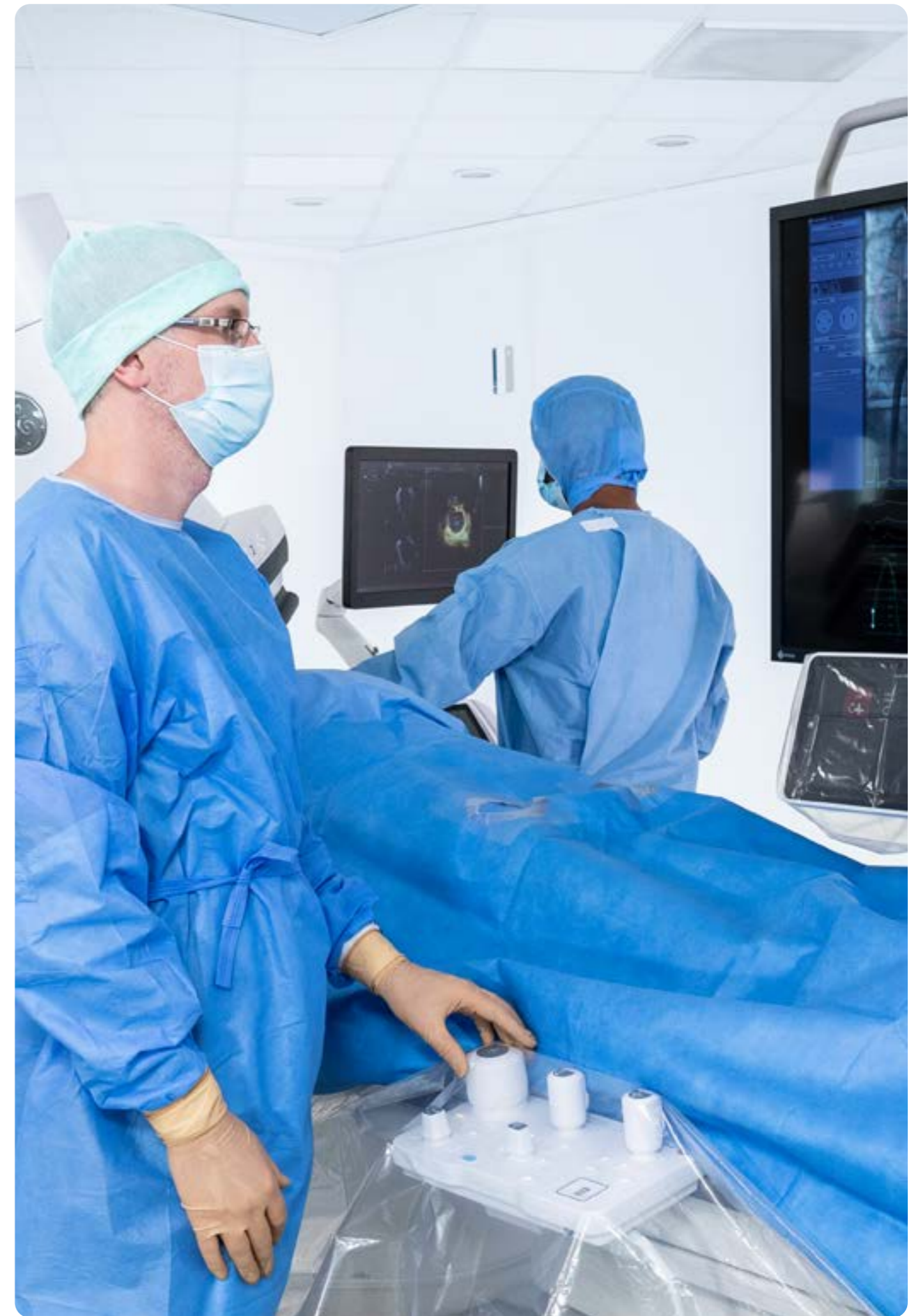
Compact Control and Touch Panel, mounted
at tableside to maximize flexibility



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, 3D augmented guidance tools)

Allia provides personalized profiles tailored to your needs

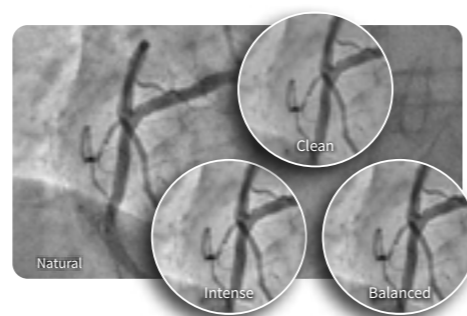
- Customizable content and layout for 1-click access to essential functions, such as:
 - Acquisition parameters
 - Review controls
 - Augmented guidance tools
- Increased operating comfort with smartphone-like interactions on the Touch Panel

Allia 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 table side 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

- AutoRight³, the 1st AI-based, interventional image chain in the industry⁴, trained on 6,000+ datasets
- Automatic adjustment of up to 7 parameters⁵ in real time to optimize image quality and dose

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

✓ Variable

Allia provides an intuitive cockpit to manage your image quality

- Interactive control of the IQ/dose trade-off with AutoRight cockpit³
- One touch access to the full image quality range within any protocol⁶



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



Augment your outcomes with Augmented Reality

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 Package⁷

Stenosis Analysis⁷ and Left Ventricle Analysis⁷ allow the user to perform stenosis and left ventricle measurements and analysis. With One Touch QA⁷, 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 2⁷

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 package⁷

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™^{7,9}, CardioLab™^{7,9}, Combolab™^{7,9} and some third party recording systems are provided with this package.

Blended Roadmap⁷

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^{8,9}

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™⁷

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^{7,8}

AngioViz enables Vascular Flow visualization, 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^{7,10}

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.

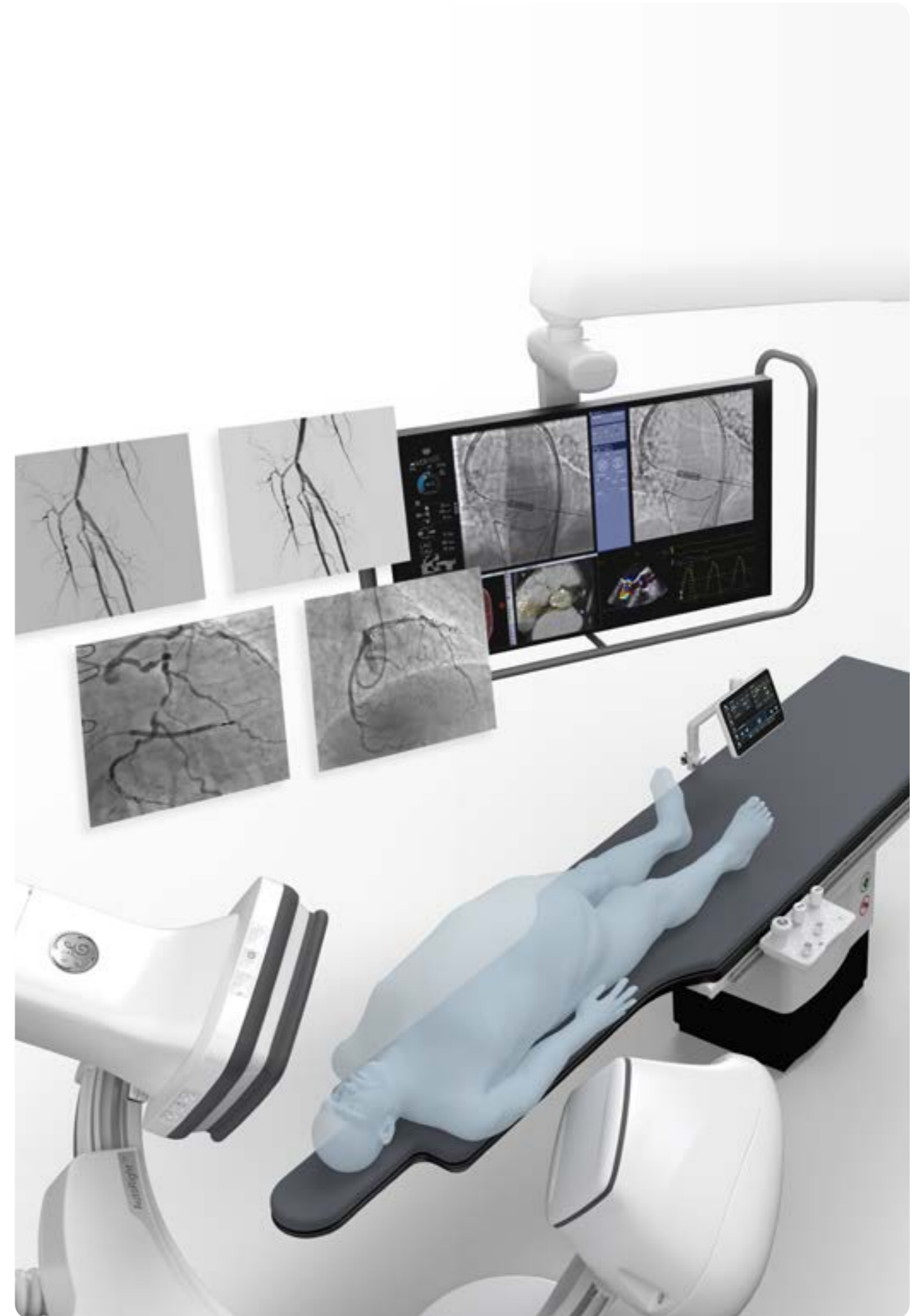
3DCT HD^{7,10}

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.

ASSIST Applications

Vessel ASSIST^{7,11,13}

Vessel ASSIST delivers accurate and easy anatomy segmentation and accurate vessel quantification from 3D volumes. It also offers advanced 3D roadmap and augmented reality capabilities on frontal or lateral planes to guide catheter with confidence.



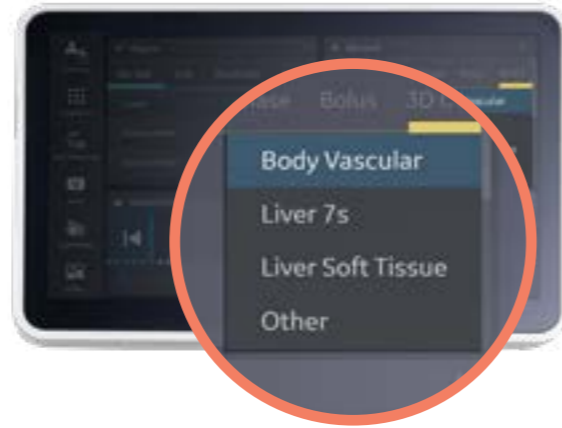
Augment your outcomes with Augmented Reality

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



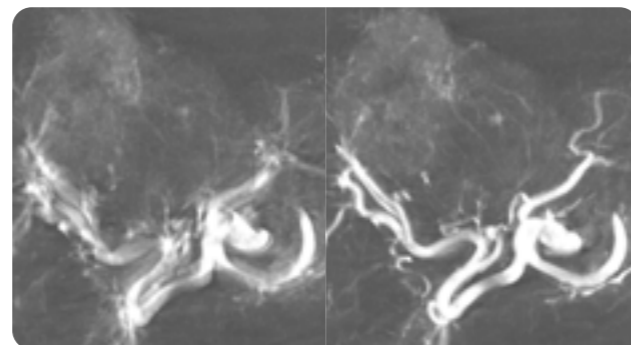
Allia enables consistent 3D image quality down to the pelvic area

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



Allia helps to recover your CBCT with Motion Freeze

- Exceptional fine image details and quality of soft tissues, bones and small devices with 3DCT HD¹⁰
- Access to full potential of CBCT with Motion Freeze^{7,12} to compensate for involuntary respiratory motion artefacts



Before

After

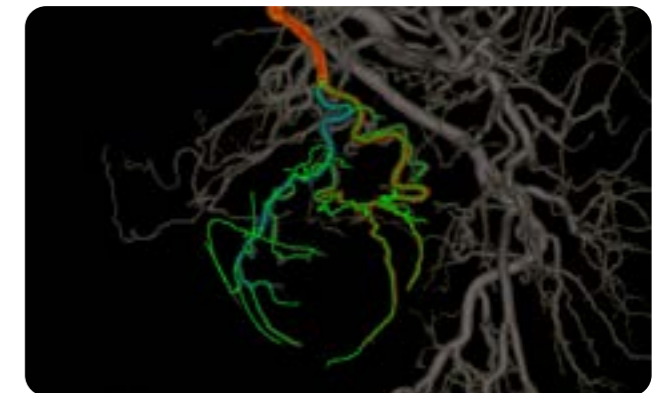
Allia enables CBCT review, planning and image guidance directly at bedside

- Full image review capabilities with in-room mouse⁷ without breaking scrub
- Smartphone-like interaction on Touch Panel



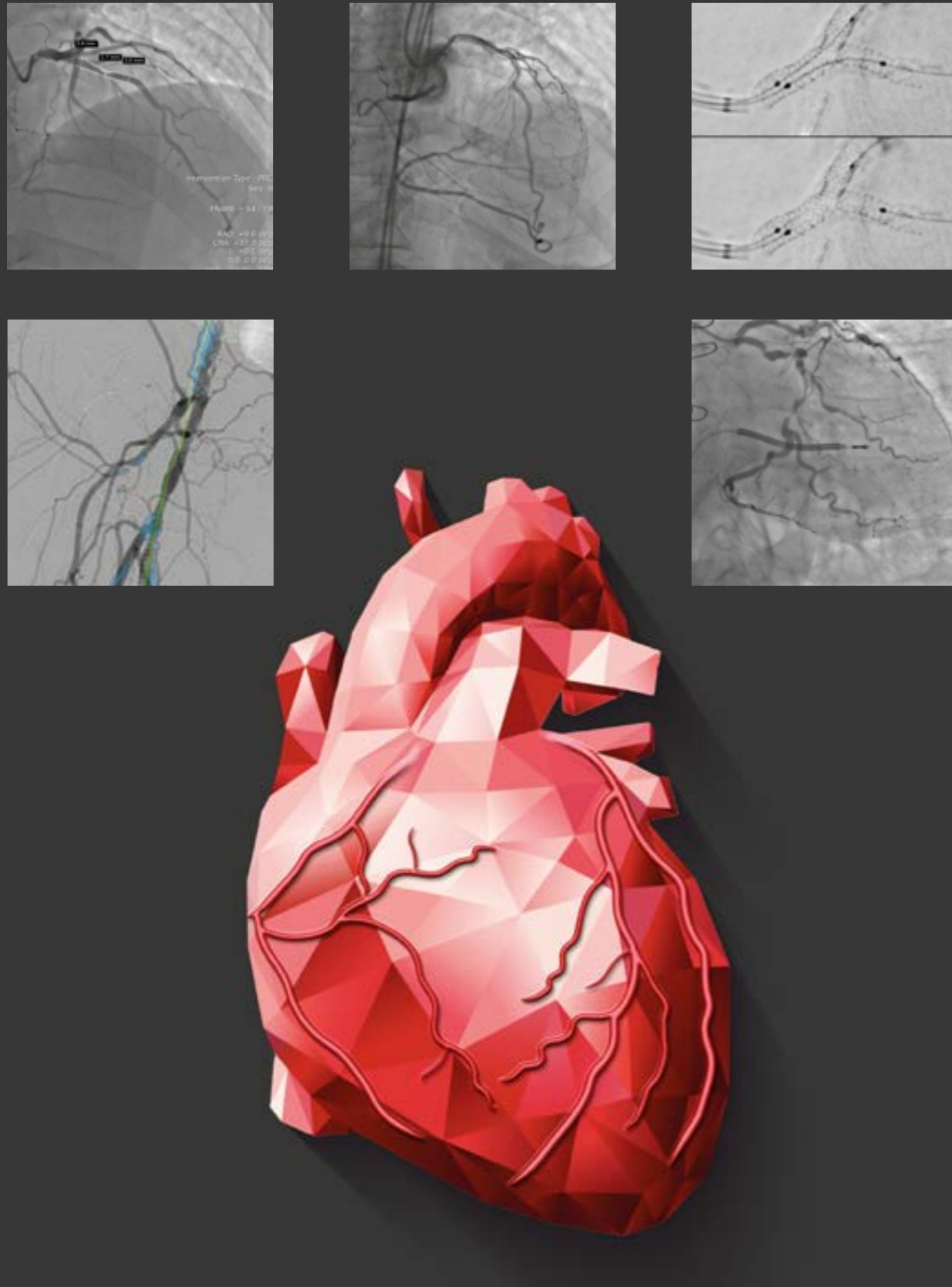
Allia brings ASSIST solutions¹³ to your fingertip

- Vessel ASSIST¹¹ delivers accurate and easy anatomy segmentation and accurate vessel quantification from 3D volumes. It also offers advanced 3D roadmap and augmented reality capabilities on frontal or lateral planes to guide catheter with confidence
- 3D fusion guidance with table and gantry motion synchronization
- Visual comfort without increasing radiation dose with live Digital Zoom



Augment your outcomes with Augmented Reality

PCI



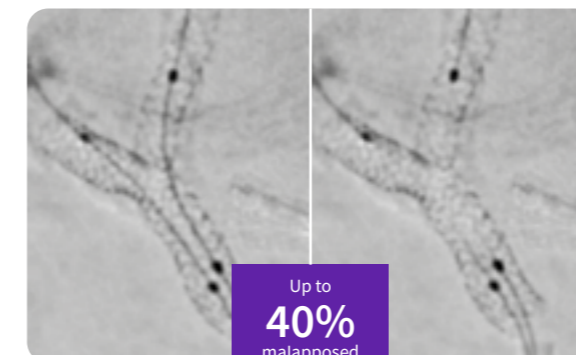
Allia facilitates adoption of augmented image guidance in daily practice

- 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



Up to
40%
malapposed
stents in
bifurcations²¹

Allia brings augmented 2D image guidance with PCI ASSIST 2¹⁴

- 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%¹⁵ 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 OnWatch¹⁶

- Likelihood 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 programs¹⁷ 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/interventional-image-guided-systems/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. One of the parameters is InnovaSense, an option.
6. With IntelliQ auto-exposure preference.
7. Option.
8. Requires AW.
9. Other Device or option not covered by Allia IGS 3 regulatory authorization IGS system refers to Allia IGS 3 system.
10. Is an option sold separately. Includes 3DXR. Requires AW workstation and Volume Viewer.
11. Vessel ASSIST solution includes Vision 2, VesselIQ Xpress, Autobone Xpress and requires AW workstation with Volume Viewer, Volume Viewer Innova. These applications are sold separately.
12. Motion Freeze is a feature of 3DXR. Sold separately. The improvement related to Motion Freeze depends on the acquisition conditions, table position, patient, type of motion, anatomical location and clinical practice. It has been assessed visually on a physical phantom.
13. ASSIST solutions are composed of multiple medical devices. For more information, please refer to GEHC's web site. www.gehealthcare.com/assist
14. PCI ASSIST 2 solution includes StentViz and StentVesselViz features of Allia.
15. 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).
16. OnWatch is an optional feature, not available in all countries and sold separately.
17. 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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