

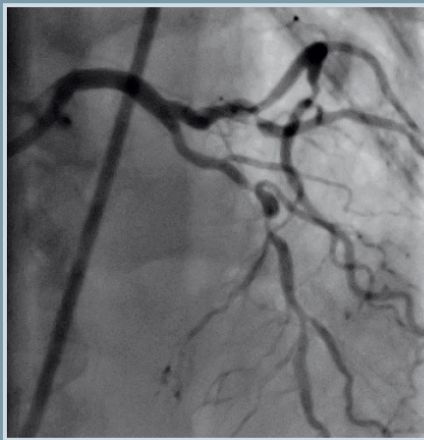
Artis **zee** – There's so much more to **zee** Interventional Cardiac Gallery

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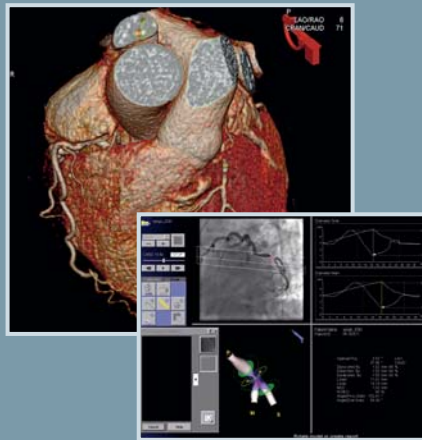
Interventional Cardiology

Diagnosis Planning Guidance Placement



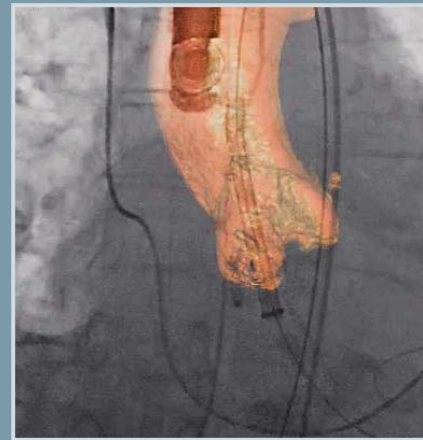
Imaging/Hemodynamics

- High-speed native acquisition
- Subtracted acquisition
- ECG/pressure recording



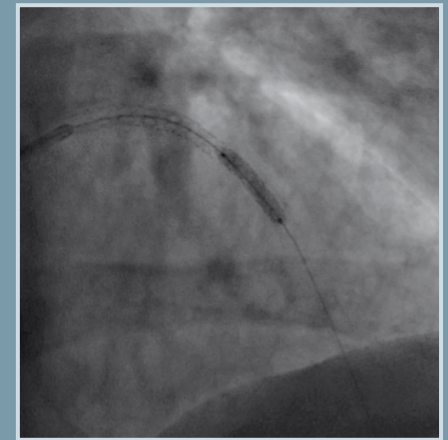
Viewing/Quantification

- Multi-modality viewing and processing
- IZ3D for three-dimensional coronary modeling



Guidance

- 3D imaging with syngo® DynaCT Cardiac directly in the cath lab
- 2D/3D overlay for better guidance during valve implantation
- Quantitative derivation of aortic annulus



Placement

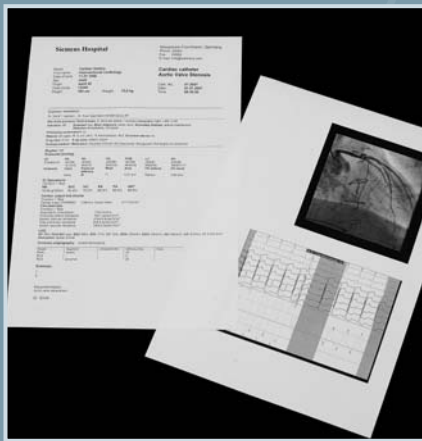
- Digital Acquisition Zoom (DAZ)
- Fluoro loop recording
- Recorded pressure/inflation time

Verification Reporting



Verification

- IC Stent for enhanced stent visualization
- Post-therapeutic measures



Archiving/Reporting

- AXIOM Sensis XP or hemodynamic calculations
- syngo Dynamics digital archiving
- syngo Dynamics evidence-based reporting

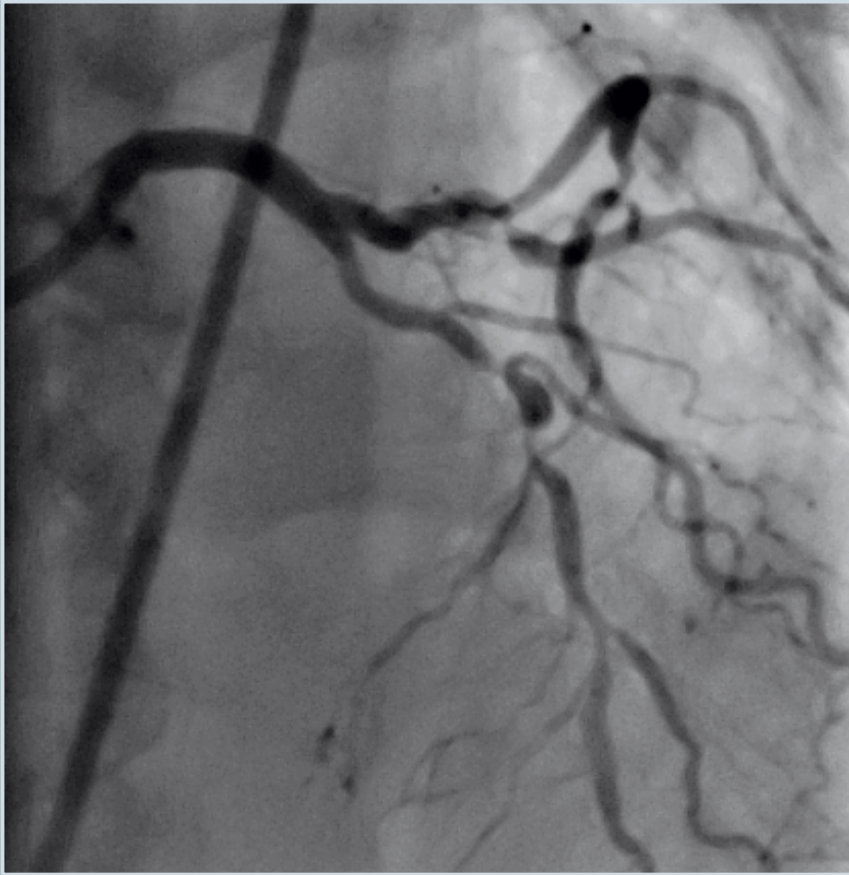
The complete picture for effective results

The new Artis **zee**® imaging system offers a wide range of imaging applications to provide outstanding image quality in fluoroscopy and acquisition to see obstructed vessels, guidewires, and fine stent meshes.

The Interventional Cardiac Gallery presents relevant system features and the added value they bring in line with your clinical workflow. You can see at a glance the right combination of system features needed to support the diagnosis, planning, and treatment of coronary artery diseases, valvular diseases, cardiomyopathy, and other cardiac pathologies.

The Interventional Cardiac Gallery identifies each step of the cardiac procedures through exceptional high-quality imaging.

Diagnosis



High-speed native acquisition

First-class imaging is the key to interventional cardiology. The flat detector imaging chain provides brilliant detail and contrast resolution. New online processing technology provides outstanding images, even under challenging conditions such as with obese patients and steep angles. Created by high-speed acquisition.

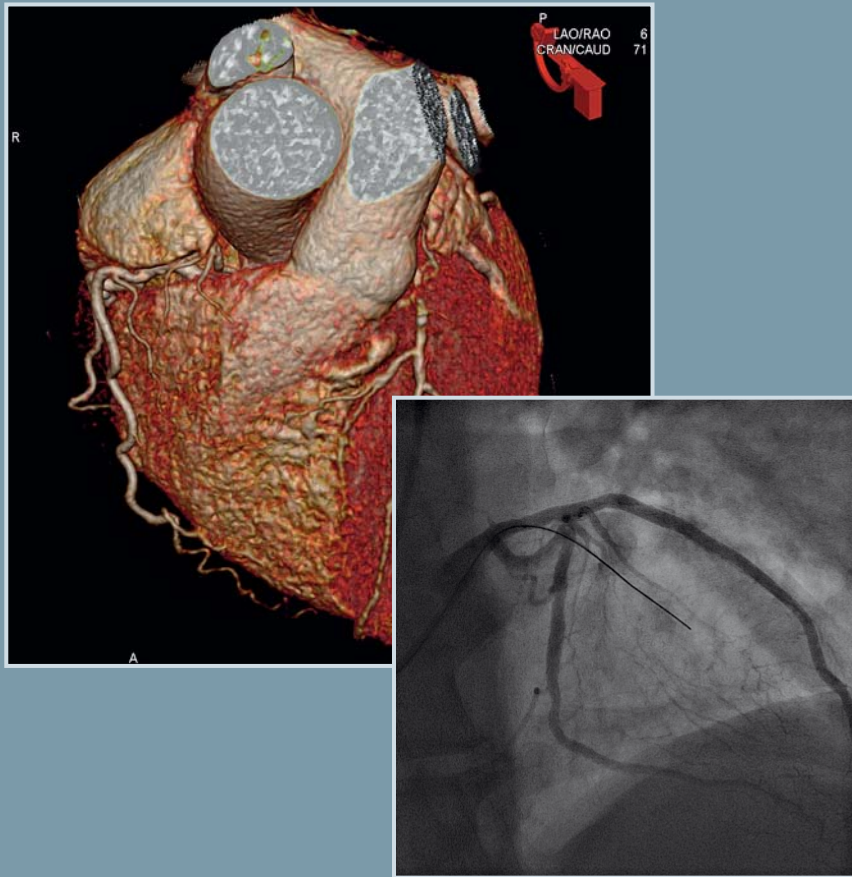
Diagnosis



Subtracted acquisition

Online DSA capability enables the visualization of general vascular structures. Using the subtraction technique reduces the amount of contrast load to the patient and provides fine detail resolution. Created by DSA acquisition.

Planning

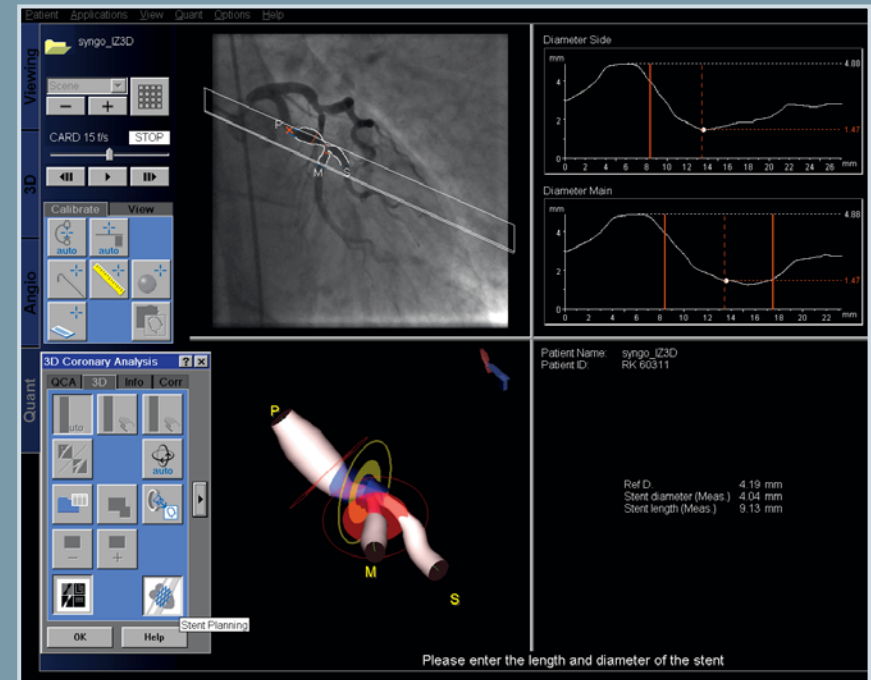


Multi-modality viewing and processing

CT angiography has become a robust modality to evaluate patients with coronary artery disease. The ability to see the luminal stenosis, as well as the plaque burden, has made this a valuable tool in non-invasive evaluation of coronary artery disease. Multi-modality viewing and processing make this imaging information directly available inside the cath lab.

Created by syngo X Workplace.

Planning

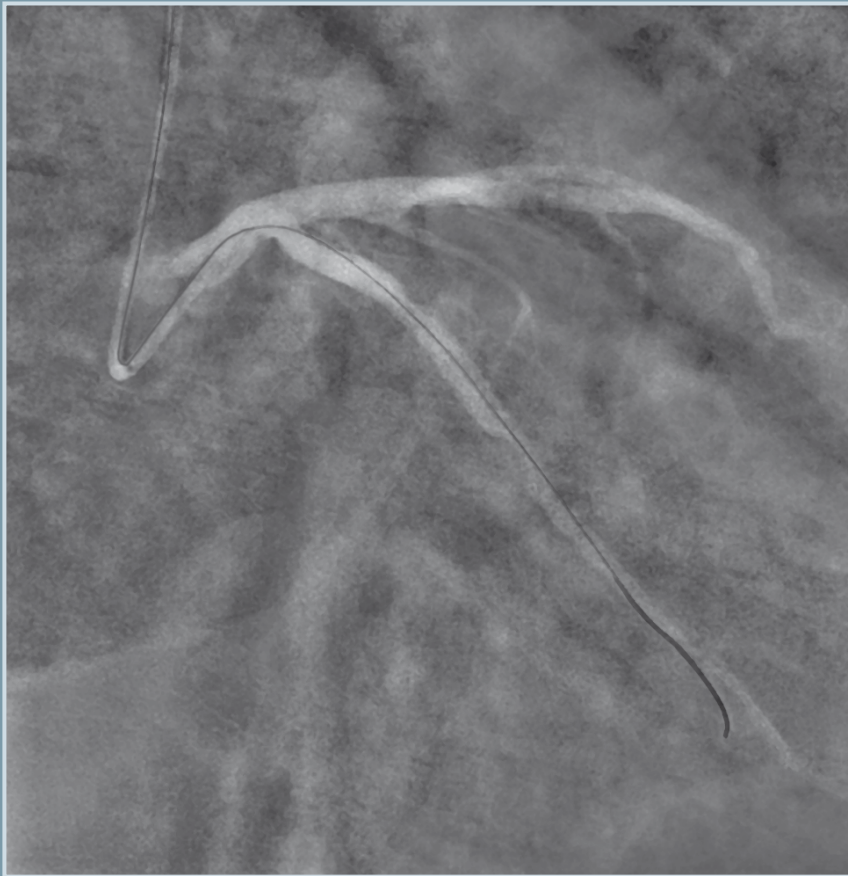


3D coronary modeling

Online measurements of both vessel diameter and bifurcation angle are highly desirable determinants for improving bifurcational T-stenting. In addition, it can be used to find an optimal projection angle to the bifurcation.

Created by IZ3D.

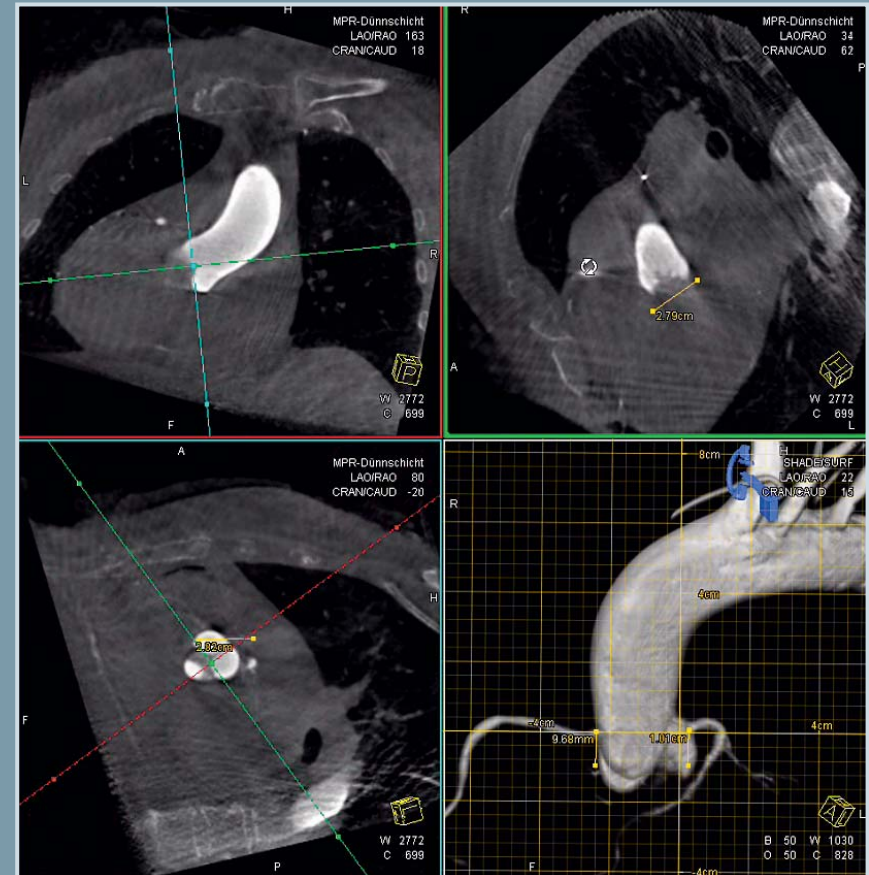
Guidance



Reference image display

Effective device guidance through superimposition of the live fluoroscopy image on top of a contrast-filled reference image. Alternatively, the reference image can be displayed on a separate monitor. Created by reference image display.

Guidance



syngo DynaCT Cardiac

3D or 4D images of the heart acquired by rotational angiography with or without ECG gating directly in the cath lab. CT-like imaging in the cath lab enables three-dimensional presentation of anatomical structures to guide e.g. aortic valve implantations and other structural heart interventions. Created by syngo DynaCT Cardiac

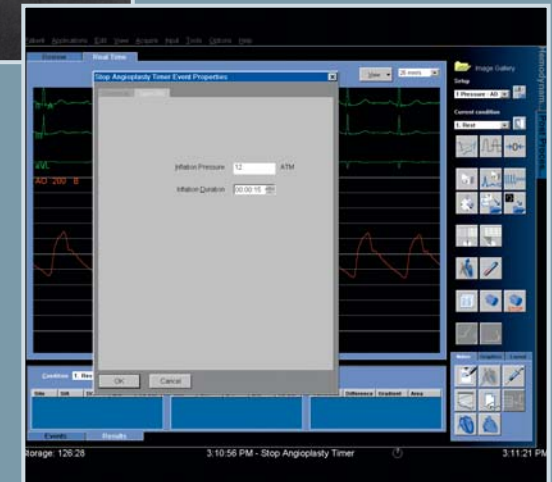
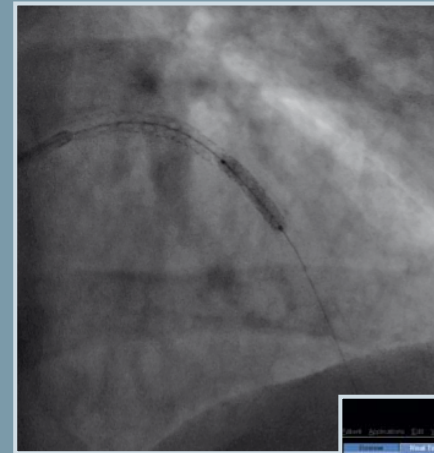
Placement



DAZ (Digital Acquisition Zoom)

Device visibility is critical during stent deployment. Digital Acquisition Zoom can be used to improve stent visibility. Created by DAZ (Digital Acquisition Zoom).

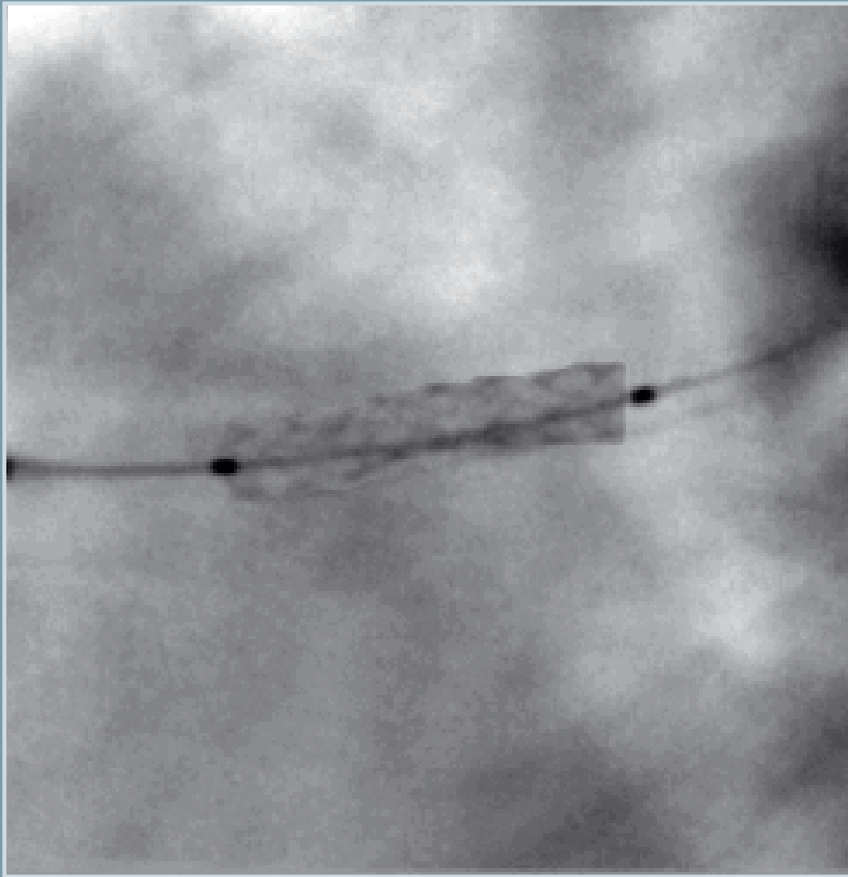
Placement



Recording pressure/inflation time

Direct stenting has many advantages over the conventional implantation techniques, including shorter ischemia duration and less platelet activation due to less vessel injury with balloon inflation. Pressure and inflation time can easily be documented. Created by AXIOM Sensis XP.

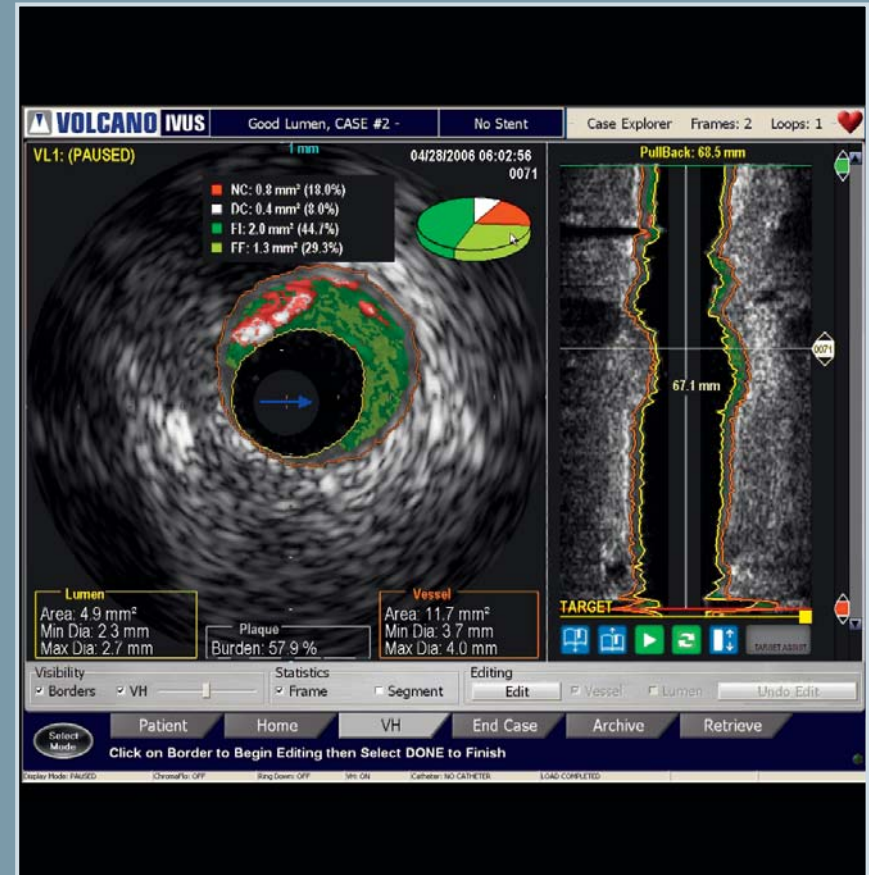
Verification



IC Stent

Stents have become less radio-opaque making visualization more difficult. IC Stent significantly enhances the visibility of the stent, compensating for movement between images to produce a high-fidelity image. It is simple and easy to use and may help to improve the long-term success of the interventional procedure. Created by IC Stent.

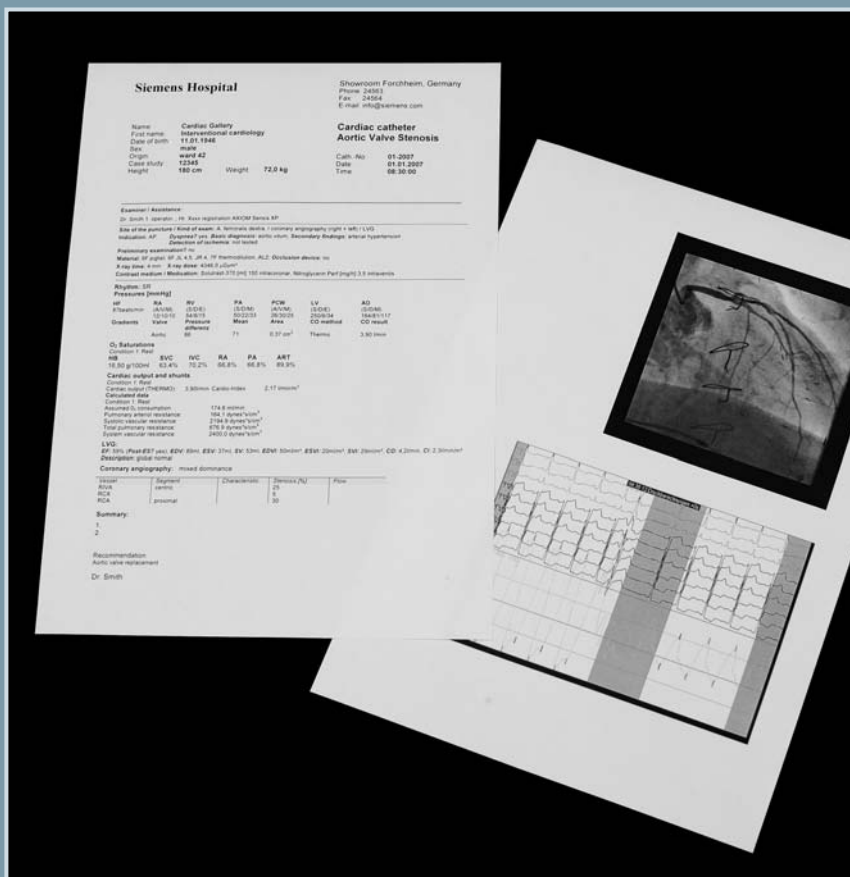
Verification



Post-therapeutic measures

IVUS enables precise tomographic assessment of lumen area, plaque size, and composition of a coronary segment. In addition proper apposition of a deployed stent to the vessel wall can be verified. The open architecture of the Artis zee supports integration of an intravascular ultrasound system. IVUS images can then be displayed on the in-room monitor. Created by IVUS integration.

Reporting



AXIOM Sensis XP Information Manager

Reporting



syngo Dynamics



Artis **zee** biplane

- Two C-arms – floor-mounted and ceiling-mounted – for complex interventions
- Second biplane working position with free head access
- Head-to-toe coverage
- Acquisition rate of up to 60 frames/sec. biplane
- Easy positioning with up to 50 programmable system positions



Artis **zee** ceiling-mounted Artis **zee** floor-mounted

- Compact size for small rooms
- Flexible positioning of ceiling-mounted C-arm for good patient access
- Additional exam positions with MULTISPACE.F by using floor stand rotation (with Artis **zee** floor-mounted)
- Pre-programmed examination positions
- Synchronized detector-collimator rotation



Artis zeego Multi-axis system

Multi-axis system based on robotic technology for cardiovascular procedures

- Revolutionary new C-arm design
- Outstanding positioning flexibility relative to the table
- Whole body coverage
- Variable working height
- Unique park positions make it an ideal solution for hybrid rooms



Artis zee Large Display

As the amount of information increases, so does the need to present all information needed for the next workflow step directly at tableside. The Artis zee Large Display offers a solution to this challenge.

- 8 megapixel, medical-grade 56" display
- 21 input sources
- Layout configuration at tableside

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