



Artis zee – There's so much more to zee

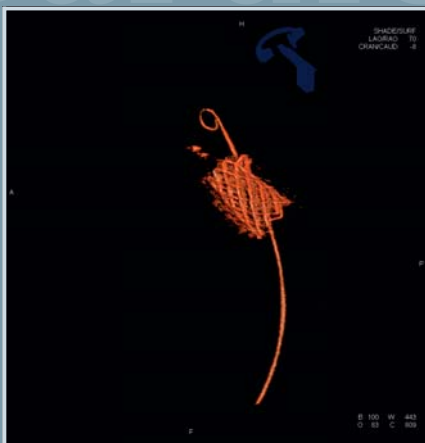
Pediatric Cardiology Gallery

www.siemens.com/healthcare

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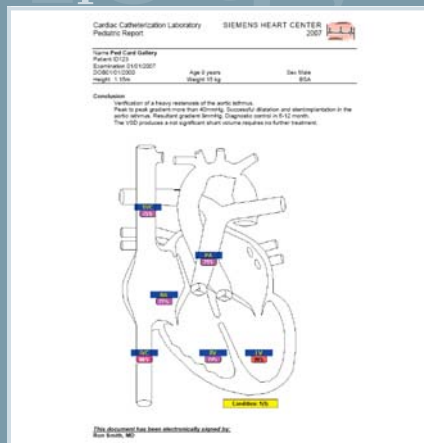
Cardiology

Check Report



2D and 3D Imaging

Fluoro loop
Low-dose fluoroscopic images and 3D images can be stored documenting procedures and can be incorporated into the final clinical report.



Report generation

AXIOM Sensis XP
Heart picture illustrator documents pressures in the congenital heart picture, providing a comprehensive final report.

A complete picture for effective results

Artis **zee** delivers a new imaging chain incorporating low dose while enabling improved visualization of therapeutic devices. Additionally, intraprocedural 3D imaging allows the pediatric cardiologist to treat while reducing dose and contrast media.

The Siemens Pediatric Cardiology Gallery presents relevant features and workflow enhancements for diagnostic and interventional procedures.

You see at a glance the right combination of system features available for efficient treatment of complex interventions such as hypoplastic left heart syndrome.

On the following pages, you will find a selection of images acquired from each step of your clinical workflow.

Overview

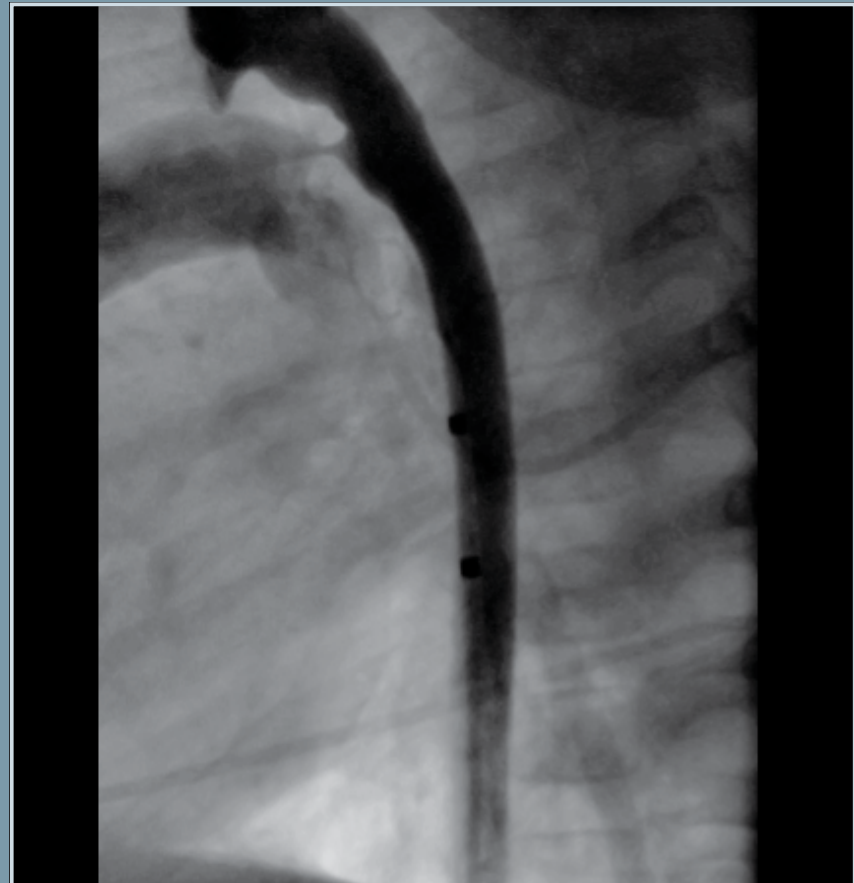


syngo DynaCT Cardiac

3D images of the pulmonary vessel tree or the heart may be acquired by rotational angiography during the procedure. Artis **zee** offers special low-dose protocols for 3D imaging in pediatric cardiology.

Created by syngo DynaCT Cardiac.

Overview

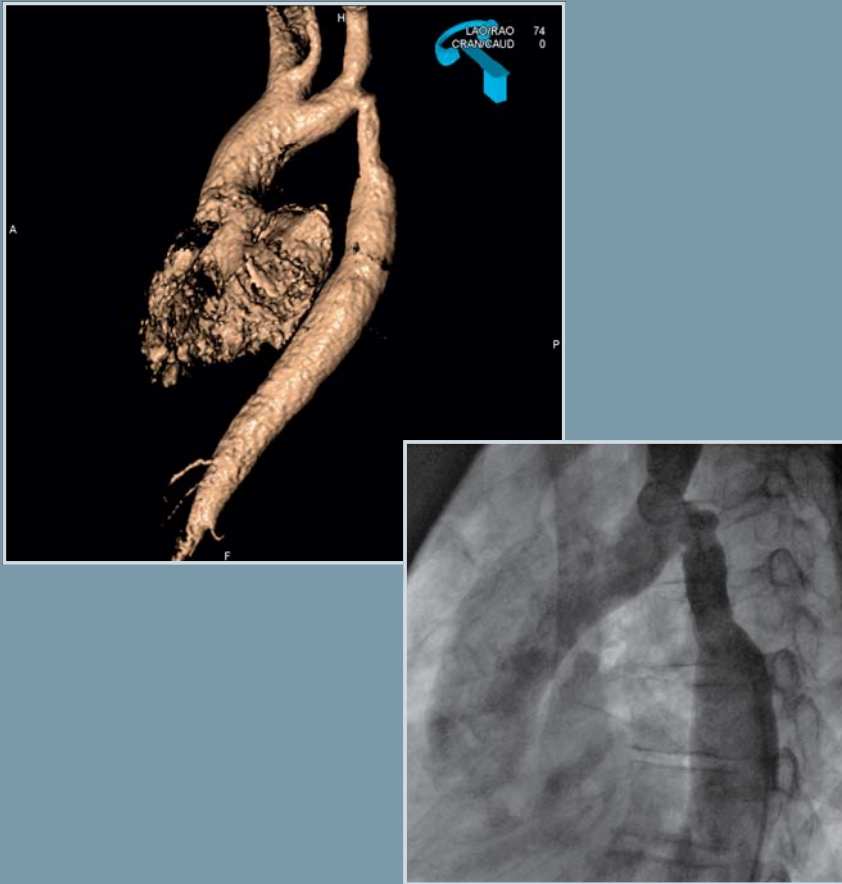


High temporal resolution with 2 x 60 f/s

Rapid heart rates require high temporal resolution. Biplane cardiac acquisition with 60 frames per second capture all phases of contrast-enhanced blood flow.

Created by Artis **zee** pediatric acquisition mode.

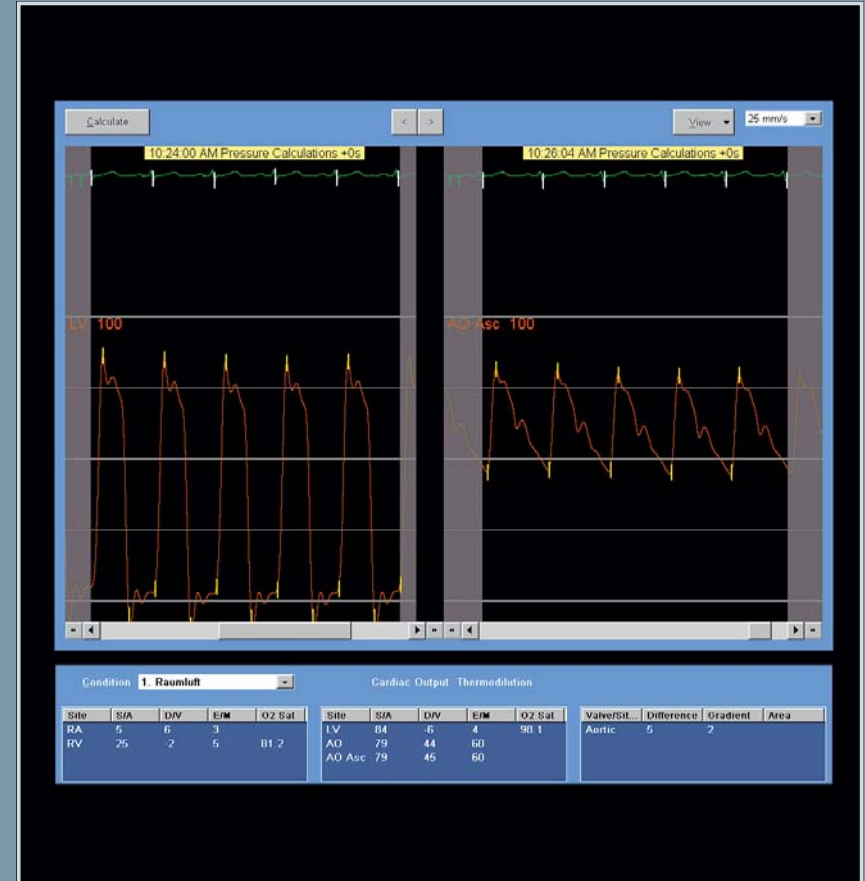
Overview



syngo InSpace

Pre-procedural MRI Images can be displayed on the monitor in the procedure room during treatment. The C-arm angulation can be synchronized with the 3D view. Created by syngo InSpace.

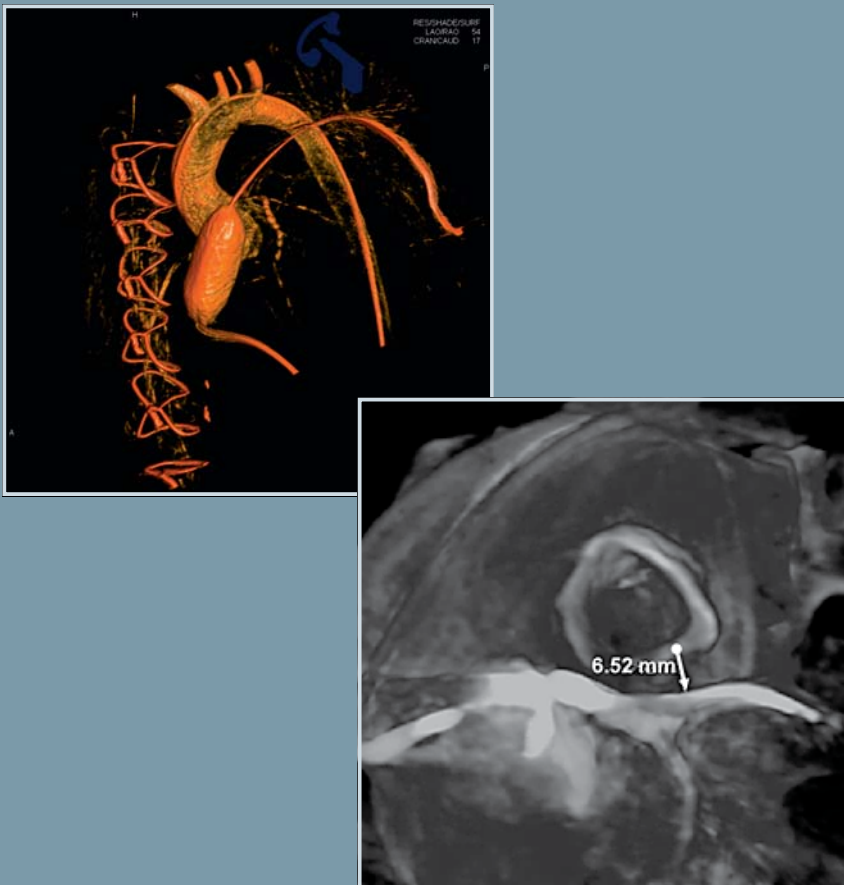
Hemodynamics



Pullback sequences

The workflow support for pullback sequences with predefined sites is efficient and saves procedure time and radiation. Pressure measurements previously acquired can be combined to create a virtual pullback. Created by AXIOM Sensis XP.

Decision

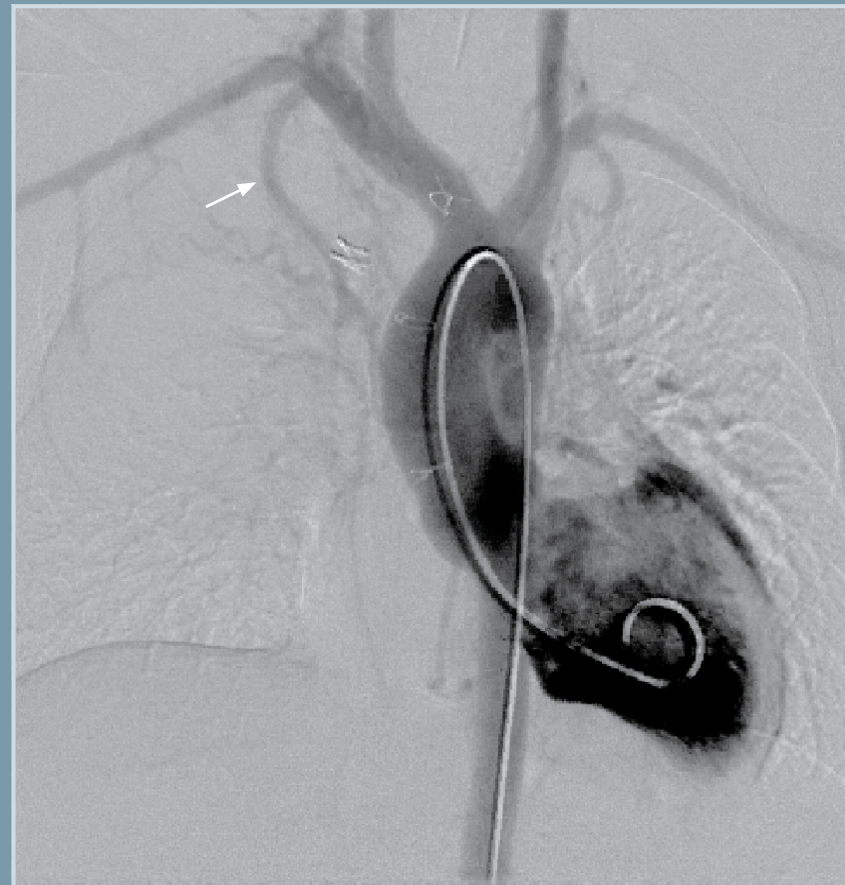


syngo DynaCT Cardiac

A five second rotational acquisition provides valuable information for the safe placement of the transcatheter pulmonary valve.

Images created by syngo DynaCT Cardiac.

Decision

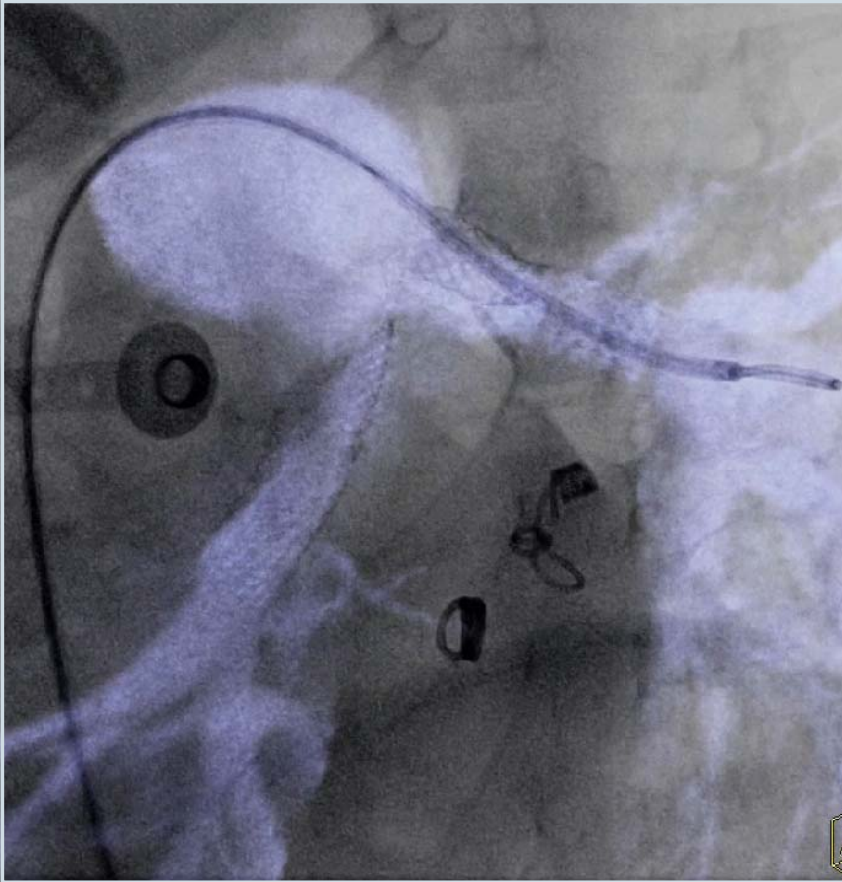


Low-dose cardiac DSA

Specially developed for pediatric cardiology, this acquisition program significantly reduces dose and enhanced contrast with frame rates up to 30 frames per second.

Created by low-dose cardiac DSA.

Guidance

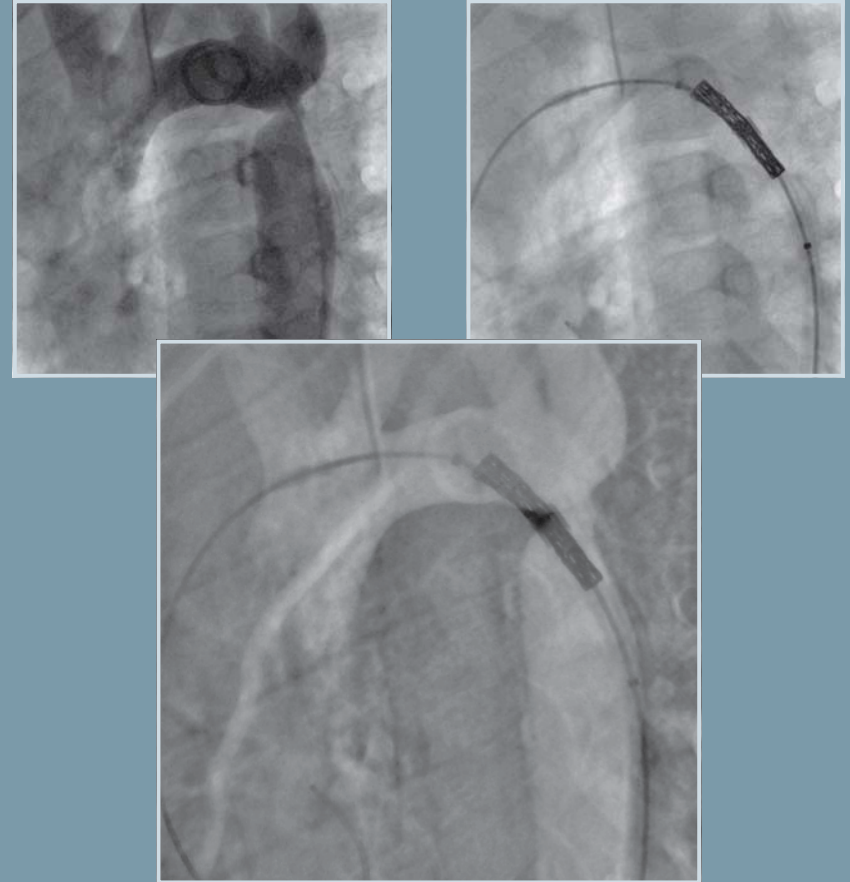


syngo iPilot

syngo iPilot superimposes a 3D data set over a live fluoroscopic image delivering more information on one display for accurate guidance.

Created by syngo iPilot.

Guidance

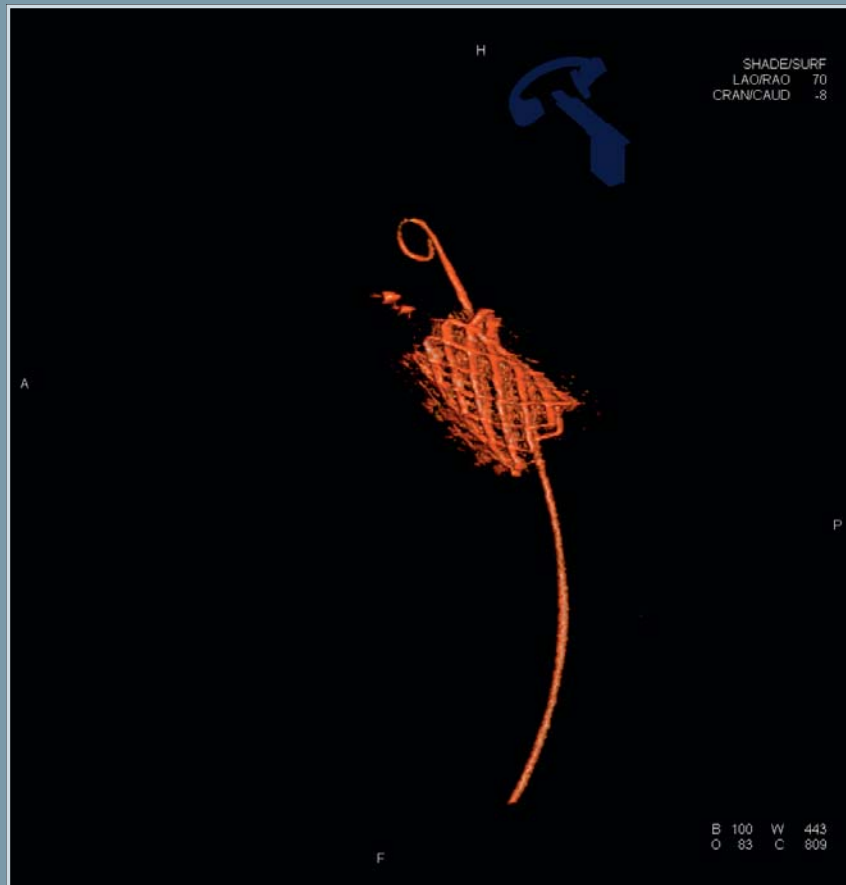


Overlay Fade

Overlay Fade enhances the guidance during deployment of devices by superimposing an inverted reference image onto a live fluoroscopic image and so help reducing the use of contrast media.

Created by Overlay Fade.

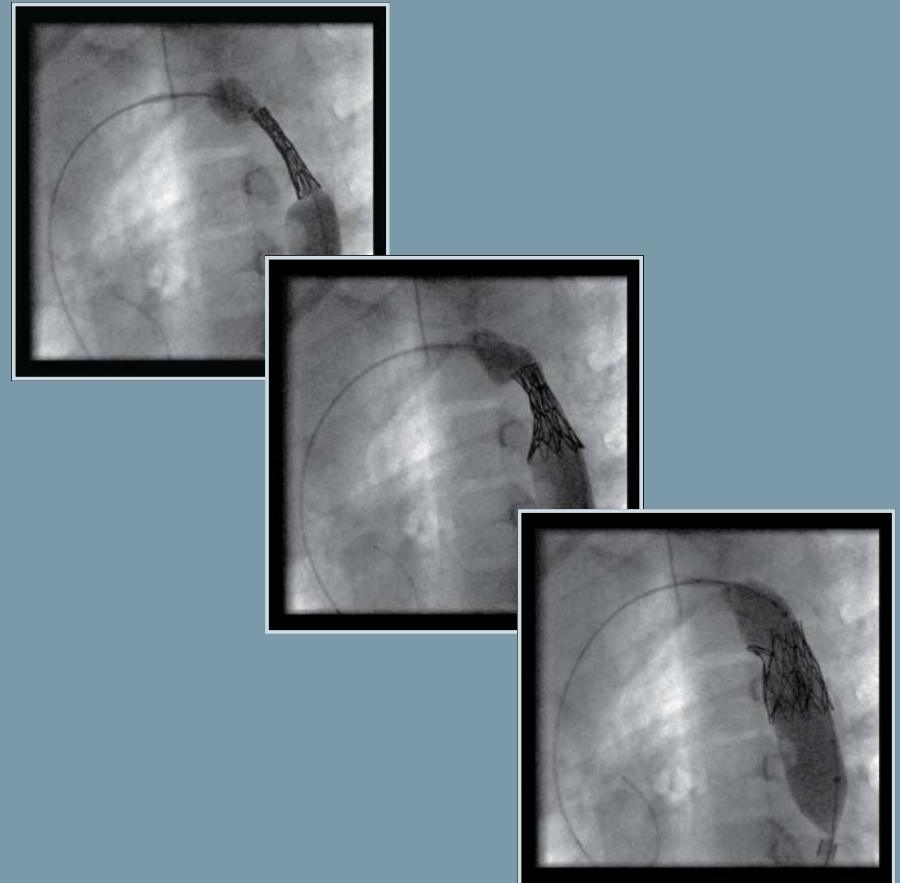
Check



syngo DynaCT Cardiac

Intraprocedural 3D Imaging can be valuable to check the proper stent deployment in 3D. Created by syngo DynaCT Cardiac.

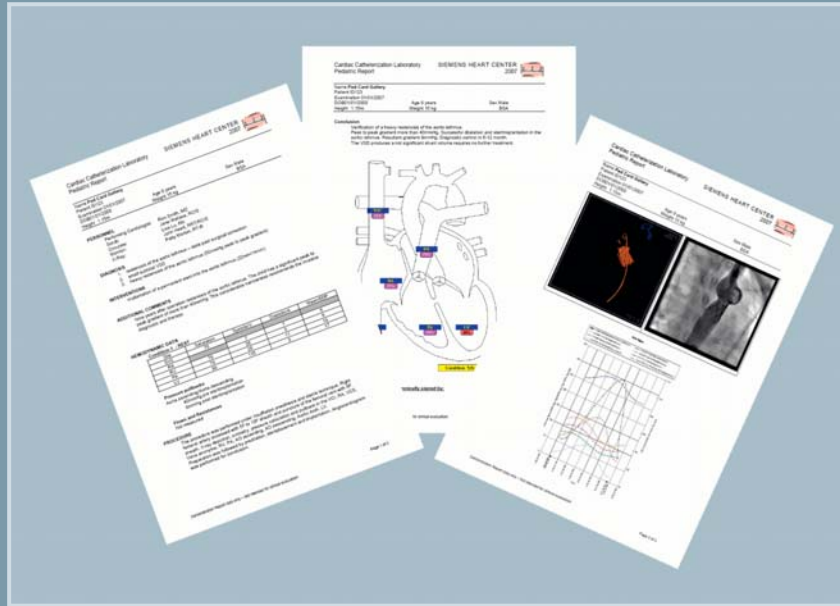
Documentation



Fluoro loop

The new real-time image optimization of Artis **zee** greatly enhances image quality of fluoroscopy. The fluoroscopy scenes can be easily stored for documentation. Created by Fluoro loop.

Report

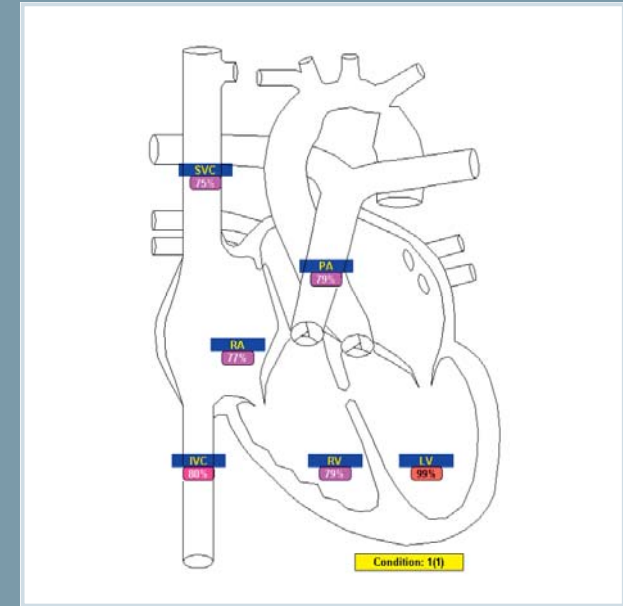


AXIOM Sensis XP Report Generator

All hemodynamic calculations, materials, vital sign values, medication given, supplies used and events documented during the procedure are stored in the database and used in report generation.

Report created by AXIOM Sensis XP.

Report



AXIOM Sensis XP heart picture illustrator

The congenital heart picture is based on the Mullins diagram. Pressure measurements and O₂ saturations can be embedded in the diagram for display and reporting.

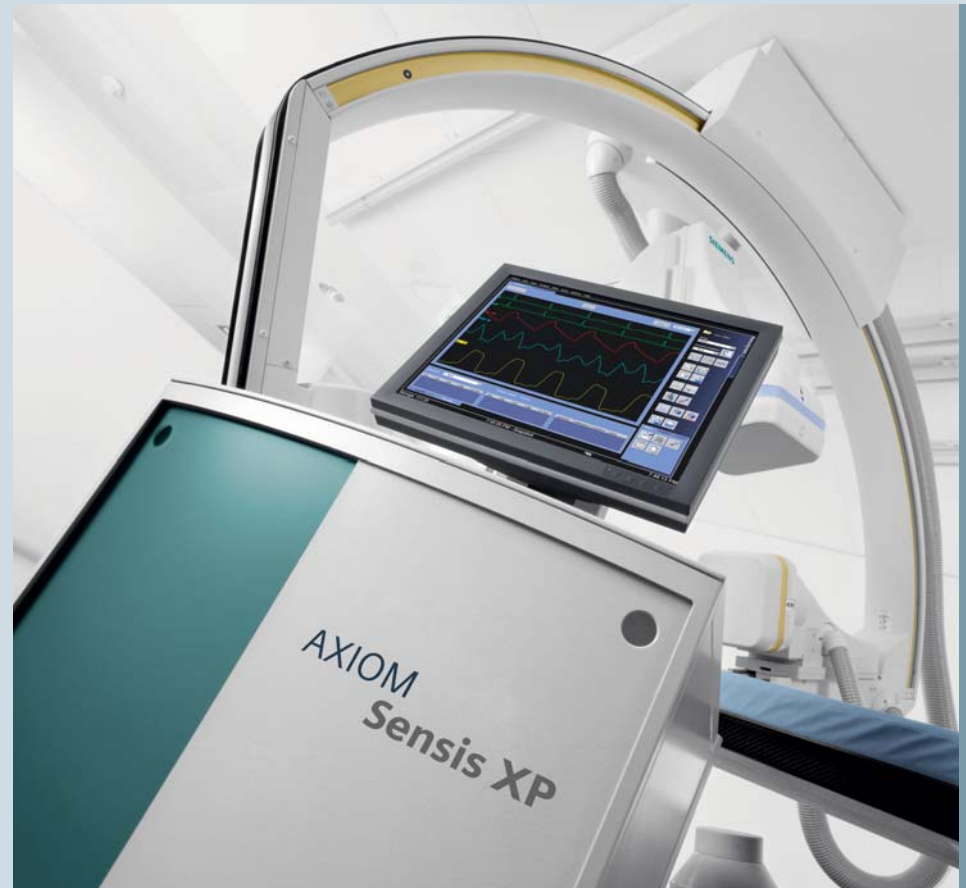
Created by AXIOM Sensis XP heart picture illustrator.



Artis zee biplane

Biplane imaging for pediatric cardiology

- Biplane acquisition with free head access
- 3D imaging with syngo DynaCT Cardiac
- Biplane acquisition with 60 frames per second
- Pediatric low-dose protocols for acquisition and cardiac DSA
- Optimized image quality with new Artis zee imaging chain
- Intuitive tableside control for imaging and recording
- Integration of pre-procedural MR or CT imaging



AXIOM Sensis XP for pediatric cardiology

Integrated hemodynamics and reporting

- Workflow support programs
- Pullback sequences and virtual pullback
- Congenital heart picture
- Comprehensive reporting including key images, waveforms, and heart picture
- Real-time interface to syngo Dynamics cardiac information system
- Data transfer to Cardiac Information systems like Ped Cath

Do more with less in pediatric cardiology

Artis **zee** biplane offers great image quality with low dose. Special low-dose protocols are available for 2D native imaging and DSA and *syngo* DynaCT Cardiac for 3D imaging.

The integration of AXIOM Artis **zee** and the Sensis XP hemodynamic recording system enables a seamless workflow from imaging to report generation.

Further information regarding our pediatric cardiology portfolio can be found in the Artis **zee** brochure or on the Siemens Healthcare Website at www.siemens.com/healthcare

Download the latest cases with *syngo* DynaCT Cardiac: www.siemens.com/DynaCTCardiac-cases



Artis **zee** Large Display

A single screen solution that gives you the whole picture directly at tableside. Customized screen layouts enable you to view the information your way.
The Artis **zee** Large Display

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

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