

# **Case Description**

#### Patient history

Left atrium segmentation for ablation treatment – pulmonary vein isolation.

#### Diagnosis

Paroxysmal atrial fibrillation

## Treatment

Ablation therapy

#### **Tips & Tricks**

- PA injection
- Use breathhold to reduce respiratory motion artifacts.
- Arms can be kept in normal position beside the body.
- RV rapid pacing (always 200 bpm)
  1 second before starting the rotation.
- Three 2D angiograms of pulmonary veins (with short contrast injection) are acquired during the procedure to manually readjust the 3D image during *syngo* iPilot when needed (e.g., after patient movement).

# Courtesy of

Massimo Tritto, MD, Humanitas Mater Domini, Castellanza, Italy

### Supported by

syngo DynaCT Cardiac syngo iPilot syngo InSpace3D syngo InSpaceEP

#### System & Software

Artis zee with  $30 \times 40$  FD syngo X Workplace

## Optional

- CS catheter in place during acquisition for readjustment during syngo iPilot overlay.
- Visualization of aorta during transseptal puncture in order to avoid aortic injury.



# Atrial fibrillation with PA injection and rapid pacing

Golden

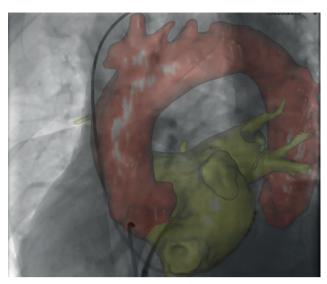
Viewing preset

Acquisition protocol	5sDCT Card
Number of projections	248
System dose	0.36 μGy/f
Increment in degrees	0.8°/f
Injection protocol	
Catheter position	Pulmonary artery
Contrast medium (CM)	370 mg iodine/mL
Test bolus	20 mL/s pure contrast agent over 1 s
Dilution	70%
Injection volume	100 mL (70 mL CM/30 mL saline)
Injection rate	20 mL/s
Duration of injection	5 s
X-ray delay	7 s, depends on test bolus
Power injector used	Yes
Reconstructions	
VOI size	Full
Slice matrix	256 × 256
Kernel type	ни
Image characteristics	Normal
Reconstruction mode	Nat fill

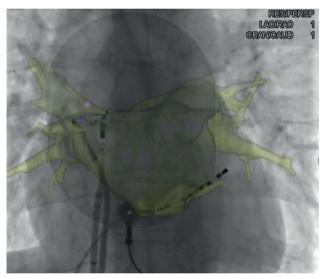
# **Clinical Images**



Visualization of left atrium with syngo InSpaceEP



syngo iPilot with overlay of left atrium and aorta



syngo iPilot point tagging and mesh clipping

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