SIEMENS

Artis zee – Study Protocol

Prostatic artery embolization

Interventional Radiology

Supported by*
- *syngo* InSpace 3D
- *syngo* DynaCT
- *syngo* DynaCT 360
- *syngo* InSpace 3D/3D Fusion
- *syngo* iPilot enhanced
- *syngo* iGuide Toolbox
- *syngo* iGuide
- *syngo* Neuro PBV IR
- *syngo* DynaPBV Body
- *syngo* Embolization Guidance
- *syngo* iFlow
- *syngo* Advanced Roadmap
- *syngo* iDentify

Courtesy of
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System & Software
Artis zee ceiling VC21
syngo MMWP VE52

**This list of applications is not complete. Not all applications available for all software versions.*

Case Description

Patient History
66-year-old man; benign prostate hyperplasia with major dysuria.

Diagnosis
Prostate volume 90 cm³ PSA < 3.

Treatment
Embolization of benign prostate hyperplasia.

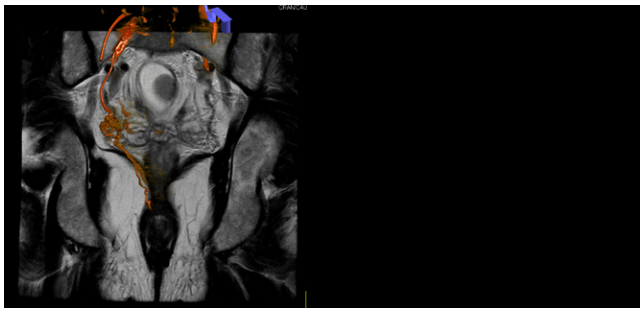
Tips and Tricks
Fusion of MRI data can save dose, because a *syngo* DynaCT run in low-dose setting is sufficient.
syngo Embolization Guidance provides guidance to the target vessel, thus saving time, contrast media and fluoro time as well as dose.

A *syngo* DynaCT run in low-dose setting is sufficient quality as the soft tissue information is available from pre-interventional MRI.
No *syngo* DynaCT run with higher dose needed.

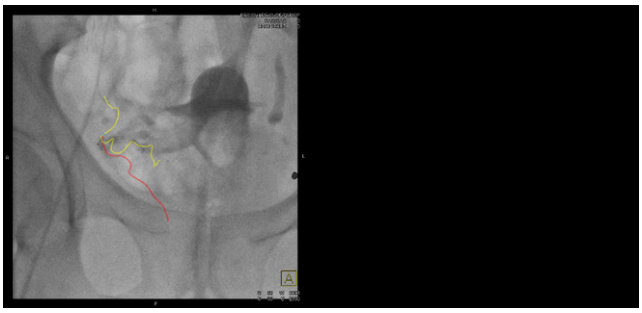
Prostatic artery embolization

Acquisition Protocol	5sDCT Body Care
Injection Protocol	
Contrast Media (CM):	350 mg Iodine/ml
Dilution (CM:Saline):	50%/50%
Injection Volume:	5 ml
Power Injector Used:	No
Injection Rate:	~1 ml/s
Duration of Injection:	5 s
X-ray Delay:	No
Catheter Position:	Prostatic Artery

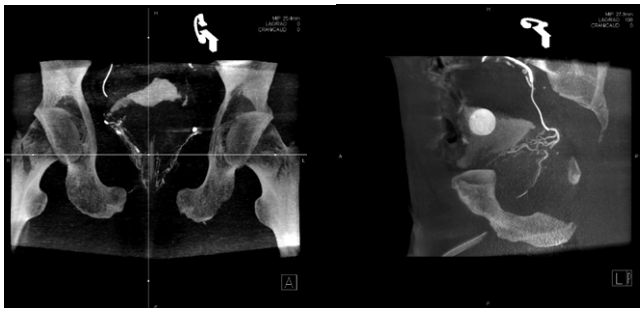
Reconstruction Protocol	DynaCT Body Nat Fill HU Normal
VOI Size:	Full
Slice Matrix:	512X512
Kernel Type:	HU
Image Characteristics:	Normal
Reconstruction Mode:	Nat Fill
Viewing Preset:	DynaCT Body
Secondary Recon	**No**

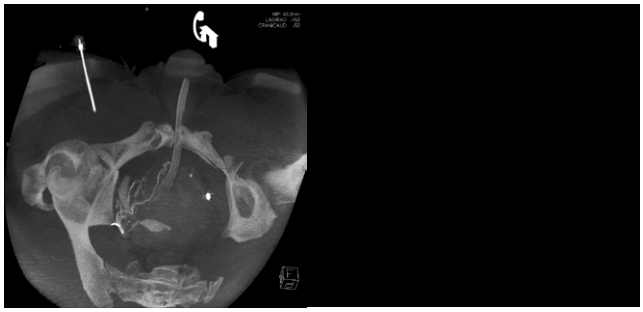


MRI image fused with *syngo* DynaCT volume (low-dose setting). Visualization in embedded MPR mode.



Store fluoro with *syngo* iPilot overlay of *syngo* Embolization Guidance centerlines.
Protocol: Fluoro normal





Thick MIP 48mm
Frontal, sagittal and transversal view of pelvic vessels out of *syngo* DynaCT volume (low-dose setting).

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