Study Protocol

Prostate artery embolization

Vascular

Courtesy of
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Supported by
syngo Embolization Guidance
*syngo* DynaCT

System & Software
ARTIS icono VE2 with *syngo*
Application Software VE2
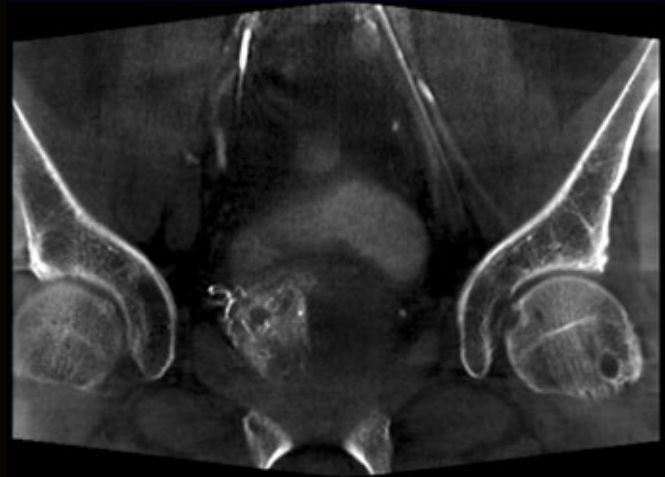
Case Description

Patient history
75-year-old male. Benign prostate hyperplasia.

Diagnosis
Lower urinary tract symptoms (LUTS)

Treatment
Urologist offered transurethral resection of the prostate, but patient decided for interventional prostate artery embolization (PAE).

Selective catheterization of left and right prostate lobe separately with the help of *syngo* DynaCT acquisition and using *syngo* Embolization Guidance. Superselective *syngo* DynaCT was done to rule out unwarranted embolization of neighboring structures.

Embolization of the prostate lobes with Embozene 250 µm microspheres.

General comments
"*syngo* Embolization Guidance is a one-click tool that can help us to find and navigate to the prostate artery faster, especially for our relatively inexperienced interventionalists. The superselective DynaCT at the location for the embolization helps us to make the procedure safer."

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Protocol

Acquisition protocol	4sDCT Body Care

Injection protocol

Catheter position	below aortic bifurcation
Contrast medium (CM)	300 mg/mL
Dilution	50%
Injection volume	5 mL
Injection rate	1 mL/s
Duration of injection	5 s
X-ray delay	1 s
Power injector used	No

| Reconstructions	Primary
Name	DCT Body Nat Fill Full
VOI size	Full
Slice matrix	512 x 512
Kernel type	HU
Image characteristics	Normal
Reconstruction mode	Nat Fill
Viewing preset	DynaCT Body

Clinical Images
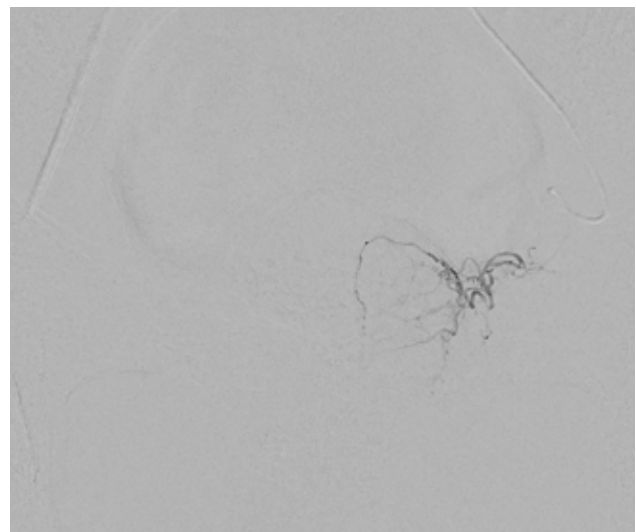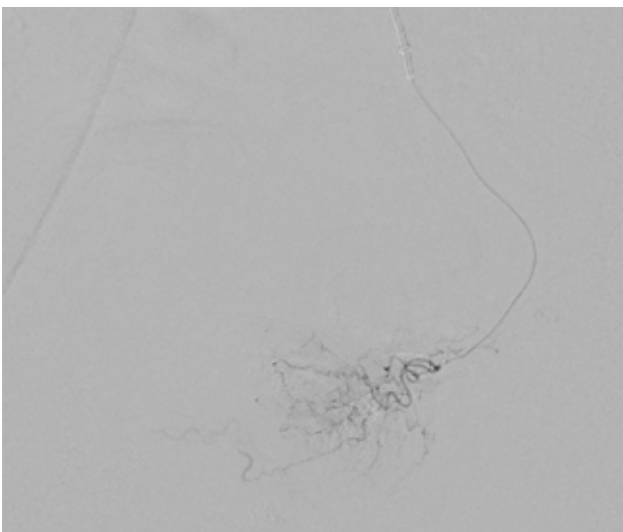
Selective catheterization of feeding vessel

Clinical Images
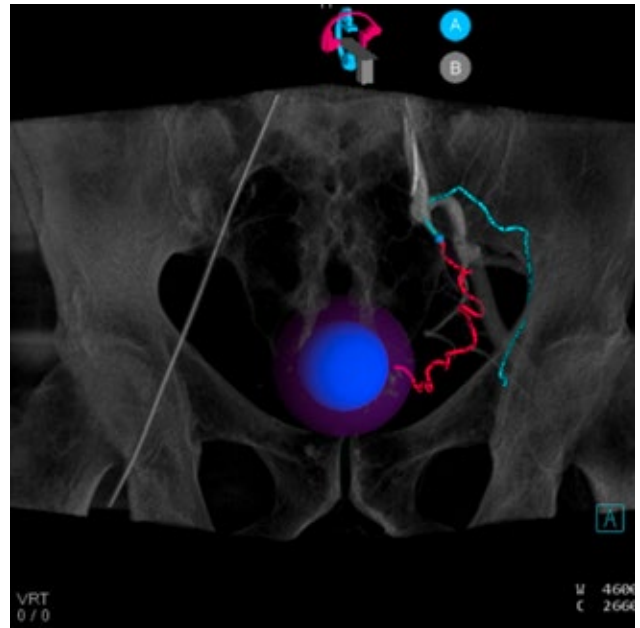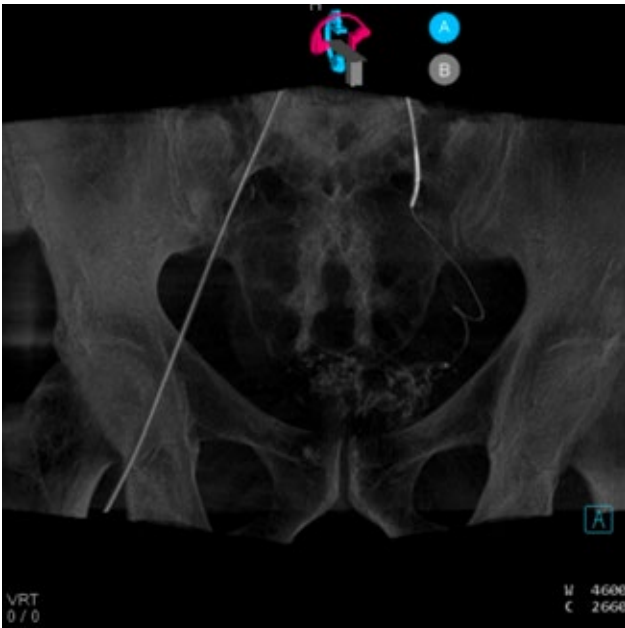
VRT, *syngo* Embolization Guidance showing feeder vessel, branching vessels added manually
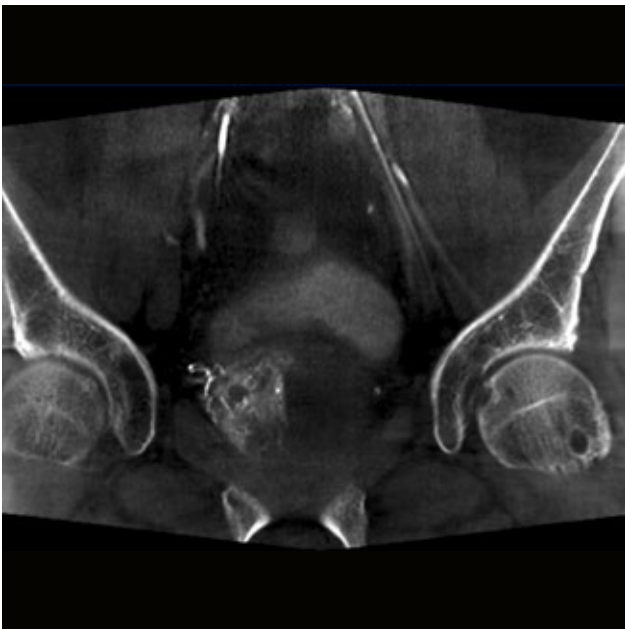
MPR 5 mm, verification of treatment position

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