Study Protocol

syngo Dyna3D DSA imaging of right hip after surgery

Interventional Radiology

A syngo DualVolume visualization was used to show vessels in relation to the anatomical structures to find the bleeding.

Courtesy of
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Supported by
syngo Dyna3D

System & Software
Artis Q ceiling VD10
syngo X Workplace VC10

Case Description

Patient history
Arterial bleeding after Gamma nail insertion in right hip.

Diagnosis
Immediately after surgery there was swelling of the upper leg. Deep femoral artery bleeding was suspected. CT angio showed a blush in muscle and the patient was transferred to the angio suite for exact localization of the bleeding and further treatment.

A *syngo* Dyna3D DSA run was performed and after fully automized reconstruction of all volumes, visualized in *syngo* DualVolume mode to show vessels in relation to the anatomical structures to find the bleeding.

Treatment
The bleeding had stopped in the meantime, so treatment was not necessary.

General comments
Due to the metal artifacts of the Gamma nail we decided for a highcontrast Dyna3D DSA run, rather than using a soft-tissue *syngo* DynaCT run.

This turned out to be a nice 3D volume, and even nice MPR views of the bony tissue.

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Transarterial chemoembolization of HCC

Acquisition protocol	5sDSA Body

Injection protocol	
Catheter position	Selective in arteria iliaca communis
Contrast medium (CM)	270 mg iodine/mL
Dilution	No
Injection volume	24 mL
Injection rate	4 mL/s
Duration of injection	6 s
X-ray delay	1 s
Power injector used	Yes

Reconstructions	Primary
Name	Dyna3D DSA Dual Body
VOI size	Full
Slice matrix	512 × 512
Kernel type	EE for sub volume/HU for mask volume
Image characteristics	Auto
Reconstruction mode	Dual
Viewing preset	DualVolume
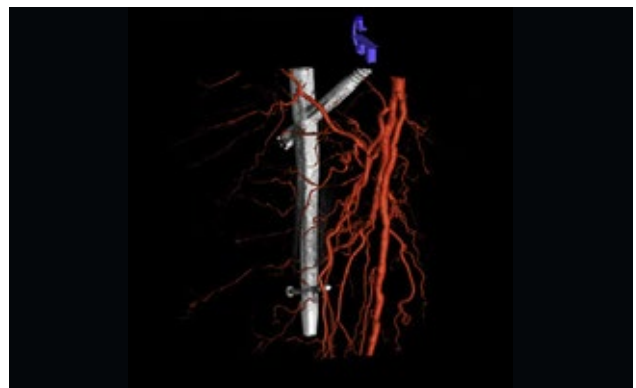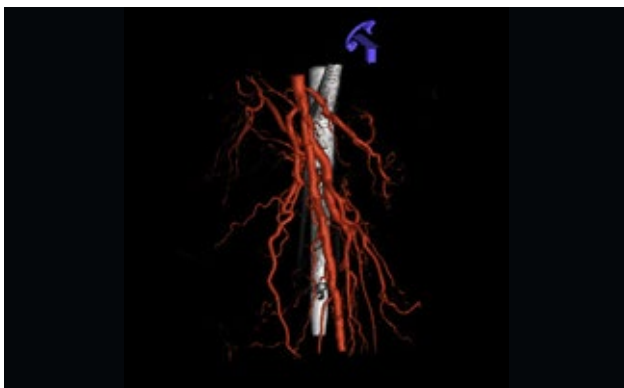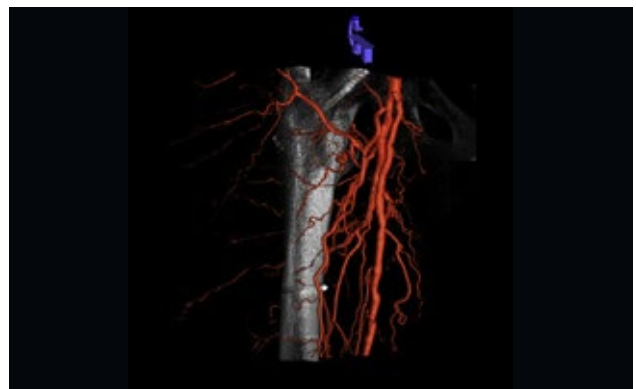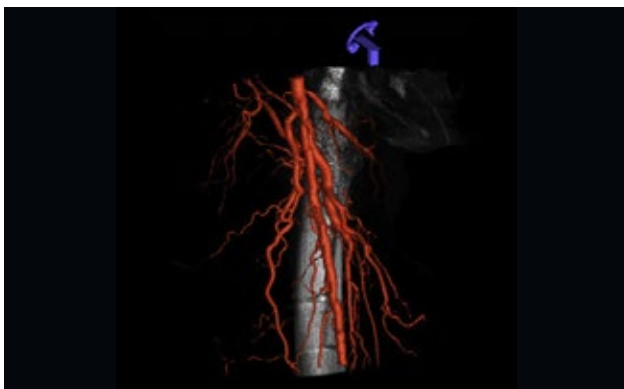
syngo DualVolume combines the reconstruction of mask run with the subtracted reconstruction to show vessels in relation to bones in any angulation

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