

Posterior impingement of the hip following acetabular fracture

Multitom Rax Real3D¹ clinical case
Trauma Center BGU-Murnau, Germany



Study ID 5aag191

Clinical background and indication for Multitom Rax Real3D¹ examination

Patient

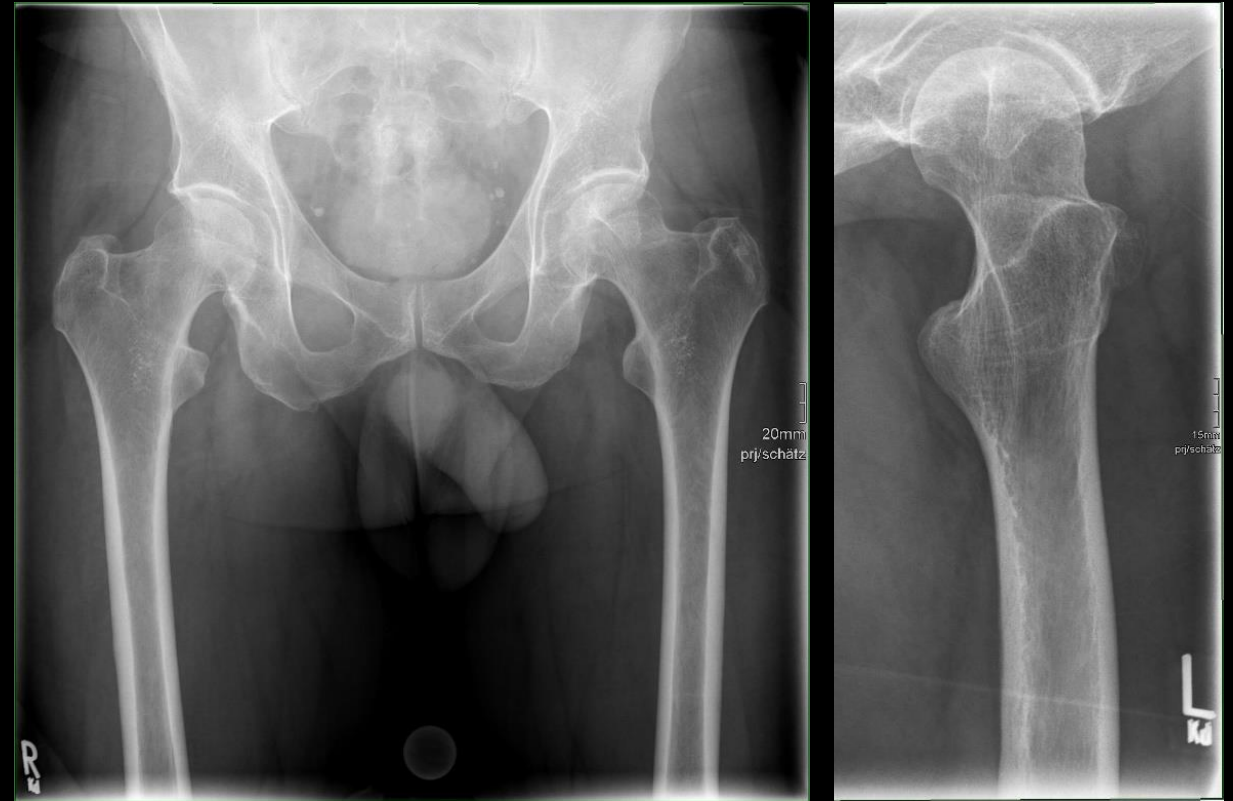
Male | Age 50-60 years | BMI 25-30 kg/m²

Anamnesis

The patient has a history of an acetabular fracture on the left side. The patient is now presenting with increasing dorsal hip pain when standing.

Indication for Real3D¹ examination

The examination aims to evaluate the presence of osteoarthritis in the hip and to assess the posttraumatic configuration of the hip joint in a weight-bearing upright position.



Conventional X-ray examination

Multitom Rax Real3D¹

Settings



Settings for upright scan using Standard Protocol

<i>Tube voltage</i>	133 kV
<i>Current time product</i>	551 mAs
<i>Dose area product</i>	3765 $\mu\text{Gy}\cdot\text{m}^2$
<i>Calculated value for $\text{CTDI}_{\text{vol},32}$</i>	30 mGy
<i>Scan time</i>	16 sec
<i>Number of projections</i>	434

Reconstruction settings for sectional views

<i>Pixel size</i>	0.4 mm
<i>Reconstruction kernel</i>	medium
<i>Slice thickness</i>	0.4 mm

The products/features mentioned herein are not commercially available in all countries. Their future availability cannot be guaranteed.

¹ Option

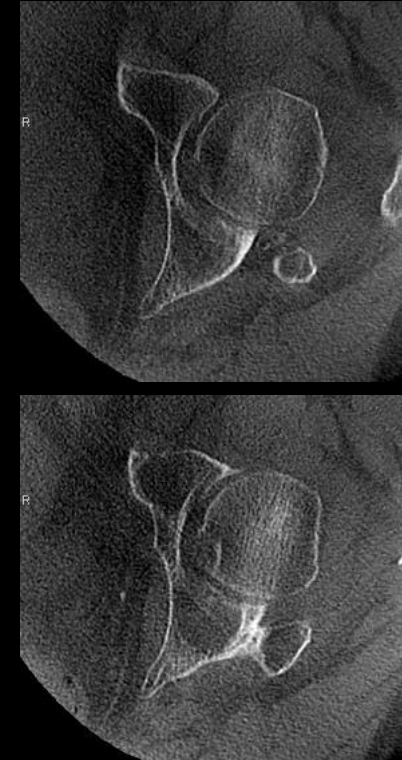
Multitom Rax Real3D¹

Diagnostic findings

The superior joint line of the left hip in weight-bearing upright position is preserved, indicating no typical degenerative disease. Multiplanar reformations and 3D reconstruction clearly reveal a remaining posttraumatic posterior step in the posterior acetabular pillar, resulting in significant posterior femoroacetabular impingement.



Coronal view



Axial view



VRT (volume rendering technique)

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“Osseous impingement along the joints of the lower limbs can be visualized in a weight-bearing upright patient position, even in the hip.”¹

Dr. Michael Scherr
Trauma Center BGU-Murnau, Germany

¹ The statements by Siemens Healthineers customers described herein are based on results that were achieved in the customer's unique setting. Since there is no “typical” hospital and many variables exist (e.g. hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.



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Real3D is an option.

Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Dr. Michael Scherr is employed by an institution that receives financial support from Siemens Healthineers for collaborations.