

Exostosis under weight-bearing

Multitom Rax Real3D¹ clinical case
Institute and Polyclinic for Diagnostic and Interventional
Radiology, University Hospital Carl Gustav Carus,
Technical University Dresden, Germany



¹Option
Results from case studies are not predictive of results in other cases. Results in other cases may vary.



Clinical background and indication for Multitom Rax Real3D¹ examination

Patient

Male | Age range 20 - 30 years

Anamnesis

Known heterotopic exostosis on the lower legs.
Deformity with progressive pain especially on the right side.

Indication for Real3D¹ examination

Diagnostic for treatment planning

Conventional X-ray examinations



Study ID 5aac670

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

¹ Option

Multitom Rax Real3D¹

Settings



Study ID 5aac194

Settings for upright scan with High Quality Protocol

<i>Tube voltage</i>	117 kV
<i>Current time product</i>	304 mAs
<i>Dose area product</i>	1212.27 $\mu\text{Gy}\cdot\text{m}^2$
<i>Calculated value for CTDI_{vol,32}</i>	9.7 mGy
<i>Scan time</i>	16 sec
<i>Number of projections</i>	314

Reconstruction settings for sectional views

<i>Pixel size</i>	0.4 mm
<i>Reconstruction kernel</i>	sharp (equivalent to Br69)
<i>Slice thickness</i>	0.5 mm

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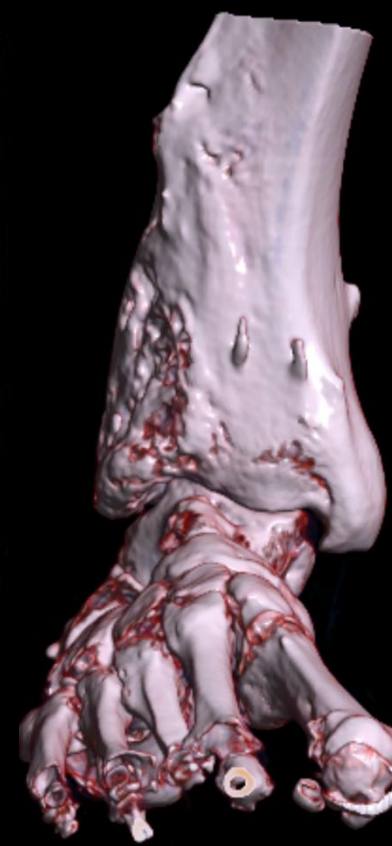
Diagnostic findings

Multiple heterotopic exostosis with degenerative changes in the tibiotalar joint. Medial tilting of the talus and medial rotational error of the forefoot (see on the coronal and VRT view).

For treatment, an osteotomy with rotation correction and autologous bone graft was done.



Sagittal view



VRT view



Coronal view

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“3D-weight-bearing imaging represents the position and relative movement of the bones within joints better than lying tomographic examinations.”¹

Eric Langer, MD

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¹The 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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Dr. Eric Langer is employed by an institution that receives financial support from Siemens Healthineers for collaborations.