

Weight-bearing ankle arthritis

Multitom Rax Real3D¹ clinical case
Artemed Hospital Munich, Germany



¹Option

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



Study ID 5aad579

Clinical background and indication for Multitom Rax Real3D¹ examination

Patient

Male | Age range 60 - 70 years | BMI range 20 - 25 kg/m²

Anamnesis

Already known severe ankle joint arthrosis on the right foot (Grade 4).

Indication for Real3D¹ examination

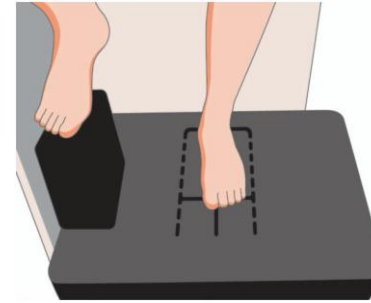
Preoperative planning before ankle joint prosthesis.

Real3D was chosen as the method for the preoperative examinations before ankle prosthesis implantation because the ankle joint can be examined in a natural, weight-loaded position.

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

¹ Option

Two options to position the patient



Let the patient lift the other foot in order to take it out of the field of view.



If a natural weight-bearing scan is required, let the patient place the second foot close to the other foot.

Multitom Rax Real3D¹

Settings

Settings for upright scan with Standard Protocol

<i>Tube voltage</i>	117 kV
<i>Dose area product</i>	659 $\mu\text{Gy}\cdot\text{m}^2$
<i>Calculated value for $\text{CTDI}_{\text{vol},32}$</i>	5.3 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>	sharp (equivalent to Br69)
<i>Slice thickness</i>	0.5 mm



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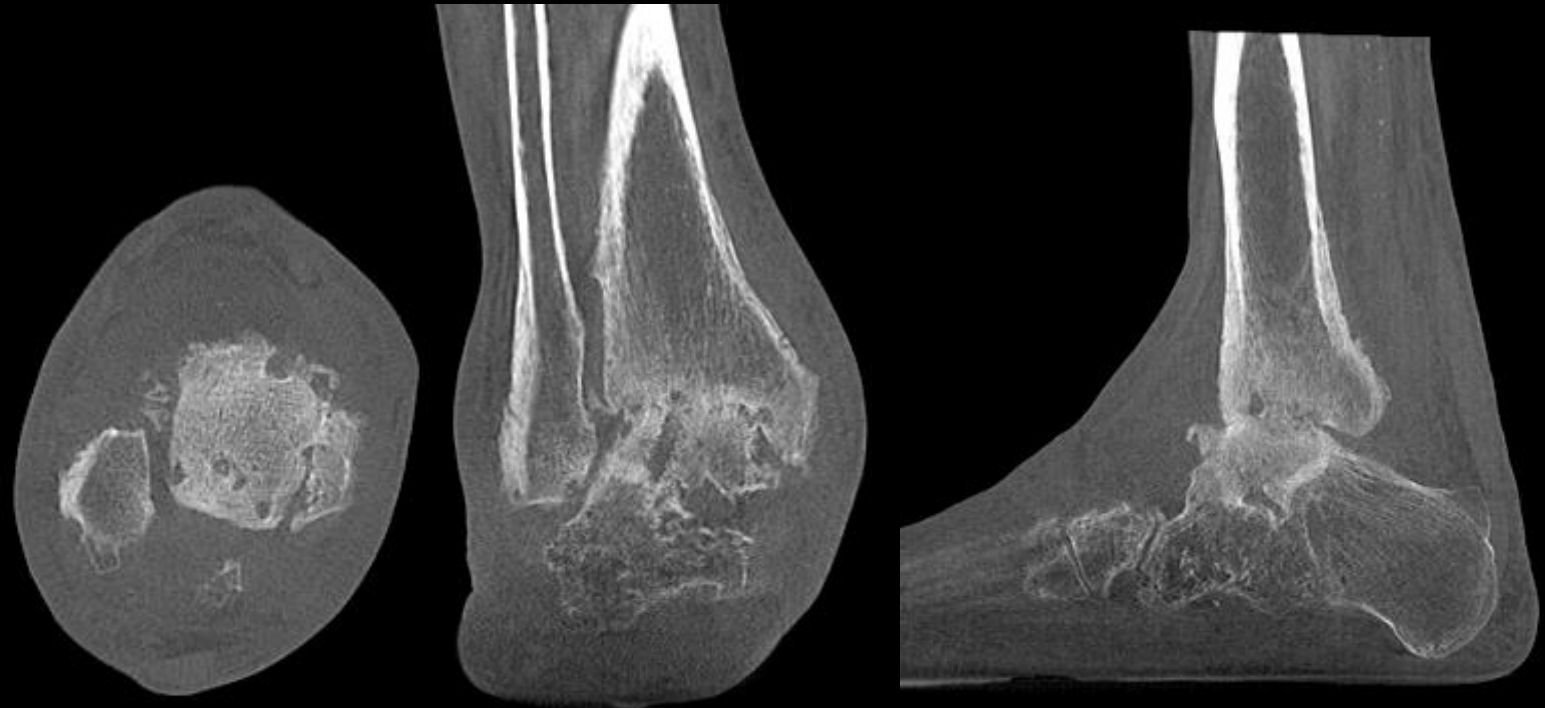
Multitom Rax Real3D¹

Diagnostic findings

The already known osteoarthritis of the ankle can be seen in all views.

The valgus arthrosis with extensive osteophytes is clearly visible. Furthermore, extensive cyst formations can be seen in the tibia and in the talus.

The patient was informed about the possibility of implanting an ankle prosthesis in our center and was operated on shortly thereafter.



Axial view

Coronal view

Sagittal view

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“The examination of the ankle joint under weight-bearing shows us an exact alignment of the osseous structures involved in the joint, which allows even more precise prosthesis planning.”¹

Amir Bigdeli, MD

Artemed Hospital Munich, 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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Dr. Amir Bigdeli is employed by an institution that receives financial support from Siemens Healthineers for collaborations.