

# Scoliotic malposition

Multitom Rax True2scale Body Scan<sup>1</sup> clinical case  
Artemed Hospital Munich, Germany



<sup>1</sup> Option



Study ID 5aac262

# Clinical background and indication for Multitom Rax True2scale Body Scan<sup>1</sup>

## Patient

Male | \*1958 | Height 165 cm | BMI 22 kg/m<sup>2</sup>

## Anamnesis

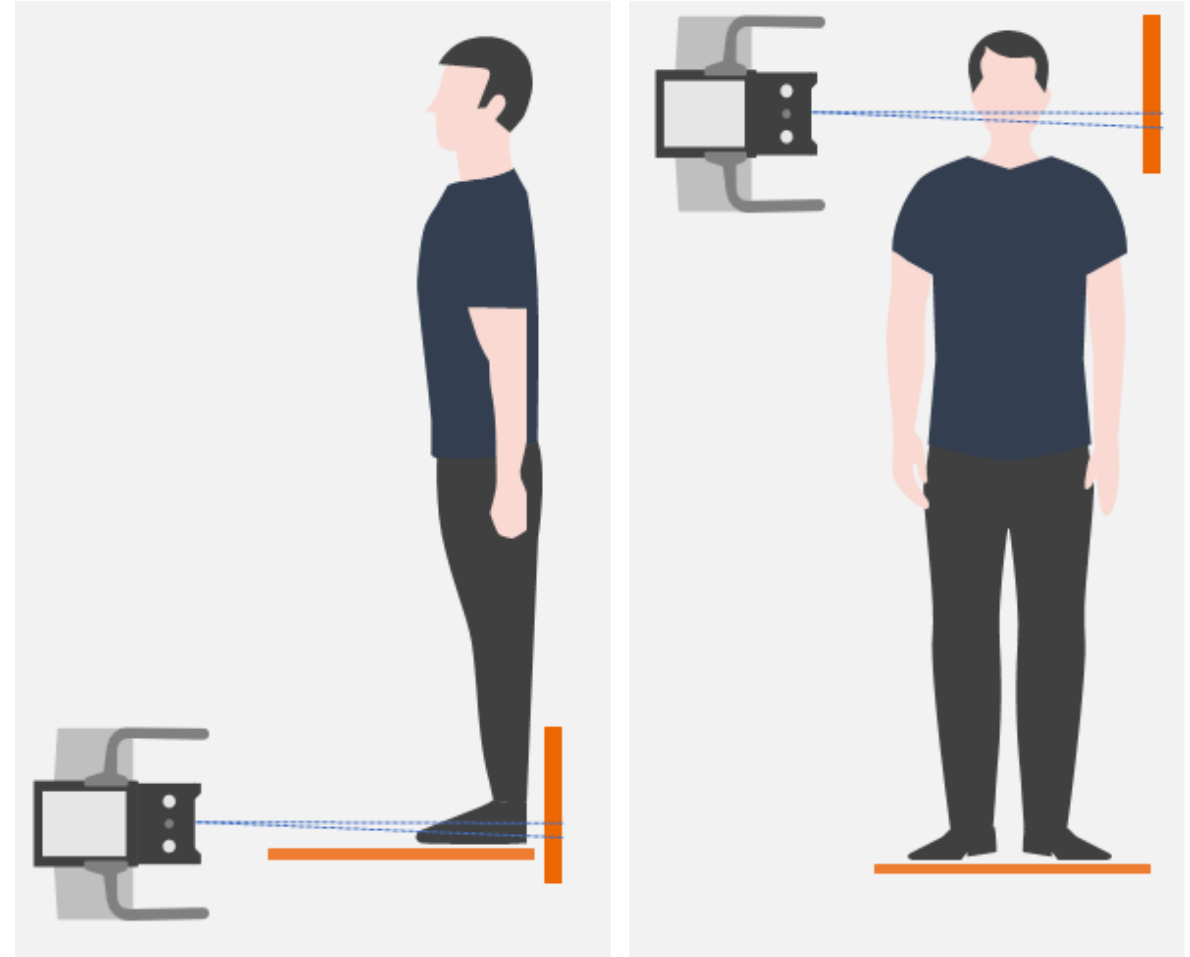
Previous surgery on the lumbar spine at another hospital.

Ongoing pain in the lower lumbar spine with suspected scoliotic malposition.

## Indication for True2scale Body Scan<sup>1</sup>

Analysis of the sagittal balance as part of the preparation for the operation.

True2scale was chosen because it offers the possibility of a distortion-free examination of the entire spine upright in the natural weight-bearing state.



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

<sup>1</sup> Option

# Multitom Rax

## True2scale body scan<sup>1</sup>

### Settings



#### True2scale Body Scan in two planes using upright S protocol

*Scan range* 76 cm

*Scan time* 18 sec

#### Anterior posterior examination

*Tube voltage* 81 kV

*Current time product* 40.18 mAs

*Dose area product* 6.32  $\mu\text{Gy}\cdot\text{m}^2$

#### Lateral examination

*Tube voltage* 117 kV

*Current time product* 51.46 mAs

*Dose area product* 16.87  $\mu\text{Gy}\cdot\text{m}^2$

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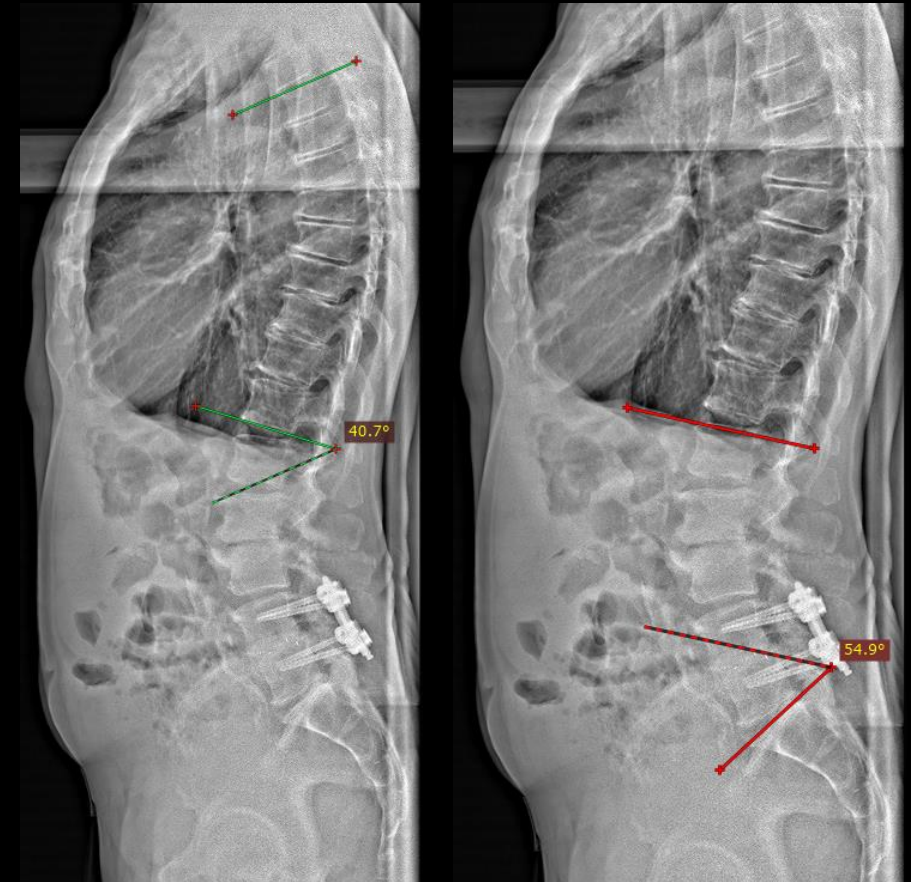
<sup>1</sup> Option

# Multitom Rax True2scale Body Scan<sup>1</sup>

## Diagnostic findings

- Regular kyphosis of the thoracic spine with 41° (normal range: 30° to 50°).
- With an average value of 55°, the lumbar spine lordosis is in the normal range (50° to 60°).
- Status after dorsal spondylodesis and cage implantation in the lumbar segment 4/5: The material position is correct. No indication of material loosening or material breakage. Advanced bony union of the intervertebral disc space.
- Left convex scoliosis of the lumbar spine at a Cobb angle of 17°, measured between the cover plate of the thoracic vertebra 12 and the base plate of the lumbar vertebra 5.

For treatment, a minimally invasive spinopelvic stabilization was performed.



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*“Overall, there is a good spatial resolution. In particular, the relatively overlay-free representation of the thoracic spine facilitates the assessment and measurement of the curvatures of the axial skeleton in the sagittal plane.”<sup>1</sup>*

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<sup>1</sup> 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.





The products/features (mentioned herein) are not commercially available in all countries. Their future availability cannot be guaranteed. True2scale Body Scan is an option.

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

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