**General rule:**

DICOM images with following settings are required:

| | |
|---|---|
| Reconstruction matrix: | 512x512 |
| Slice thickness: | 2mm or less |
| Slice increment: | less than slice thickness |
| Storage medium: | CD ROM; data transfer via internet (as agreed) |

Please completely scan the relevant region of interest, in particular scans should include:
- complete intended resection
- complete required anchorage length
- full visualization of the relevant in situ implants

This information has to be provided by the attending physician.

See the following pages for examples:

1. hip / acetabulum replacement
2. acetabulum / pelvis
3. leg / total femoral replacement
4. knee / distal femoral replacement
5. shoulder
6. elbow
7. hand / wrist

Waldemar Link GmbH & Co. KG
Oststrasse 4-10 · 22844 Norderstedt, Germany
Phone: 040-53995-141
customlink@link-ortho.com · www.customlink.solutions

# CT protocol

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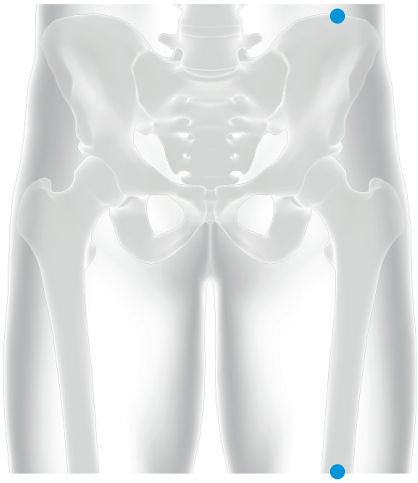
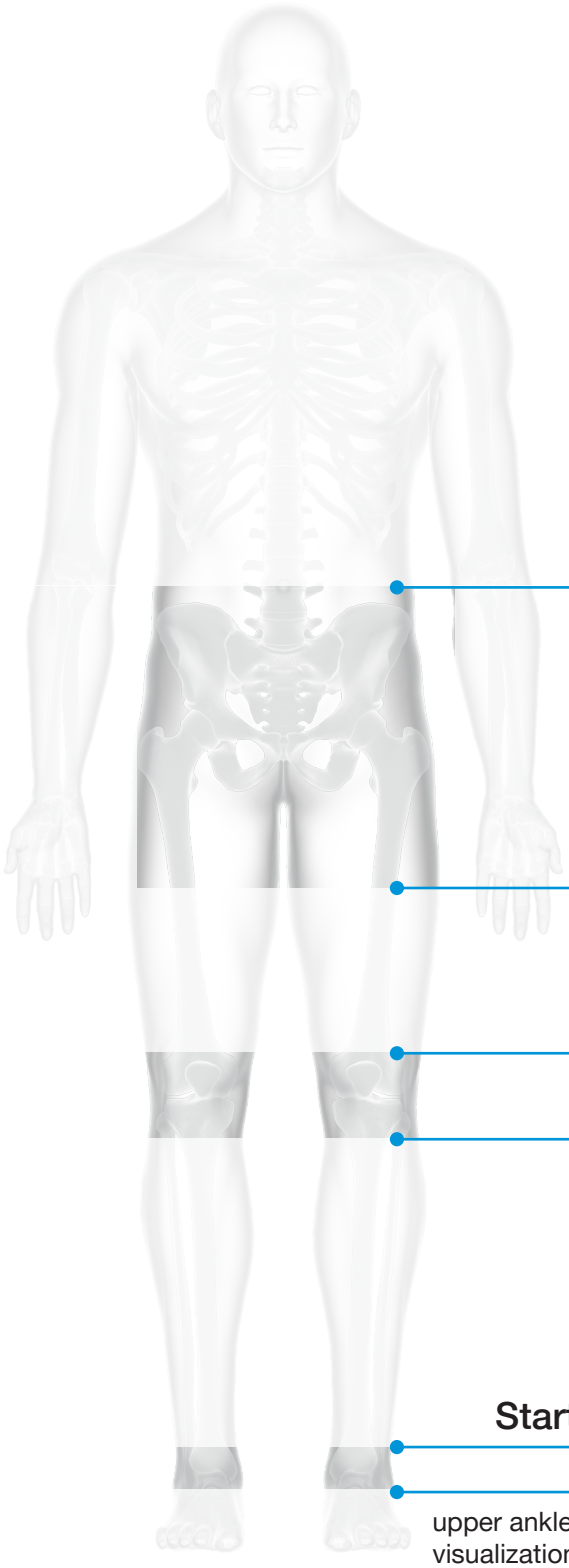
## 1. hip / acetabulum replacement





**Start**

top of iliac crest

**Stop**

approx. 150mm distal to minor trochanter

**Start**

**Stop**

knee joint with visualization of complete joint line

**Start**

**Stop**

upper ankle joint with visualization of complete joint line

Remark:

1. **Additionally a bilateral topograms of the whole leg in frontal and lateral view are required**
2. **If necessary, expand the scan region to completely visualize in situ implants**

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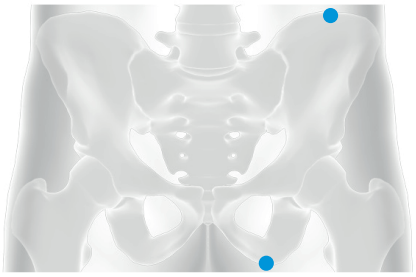
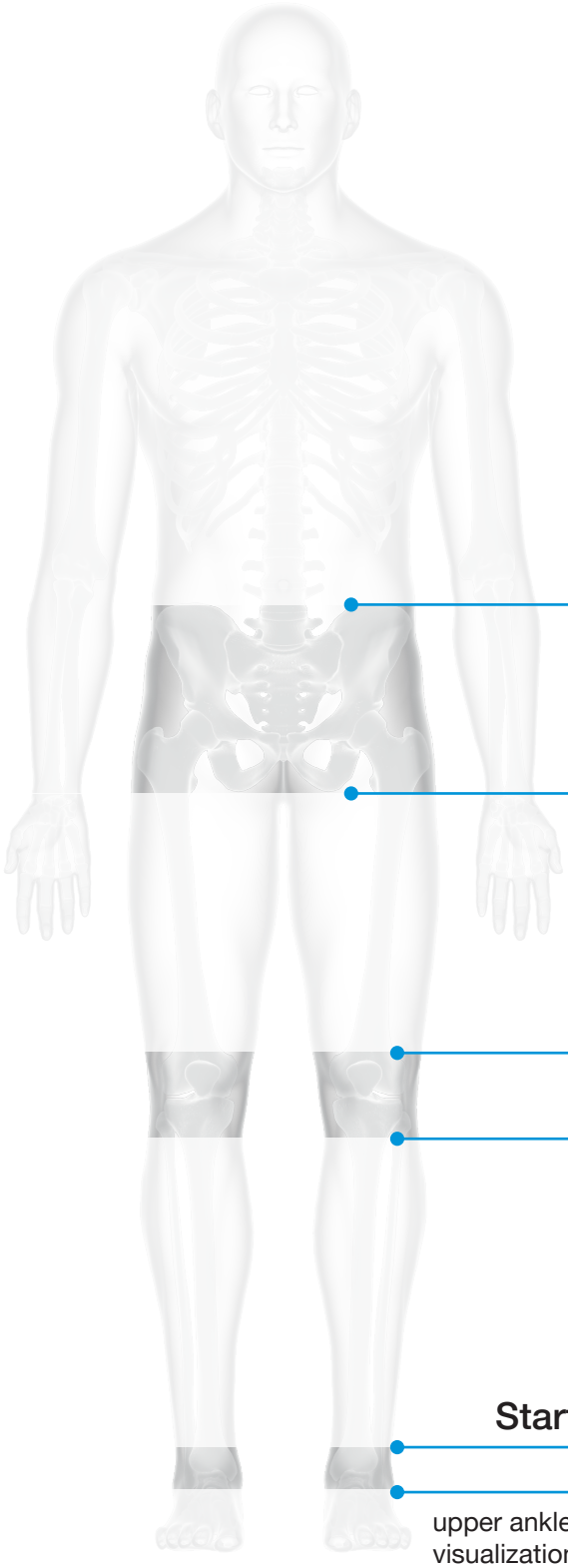
## 2. acetabulum / pelvis without implantation of a hip stem





**Start**

top of iliac crest

**Stop**

just below of ischial tuberosity

**Start**

**Stop**

knee joint with visualization of complete joint line

**Start**

**Stop**

upper ankle joint with visualization of complete joint line

Remark:

1. **Additionally a bilateral topograms of the whole leg in frontal and lateral view are required**
2. **If necessary, expand the scan region to completely visualize in situ implants**

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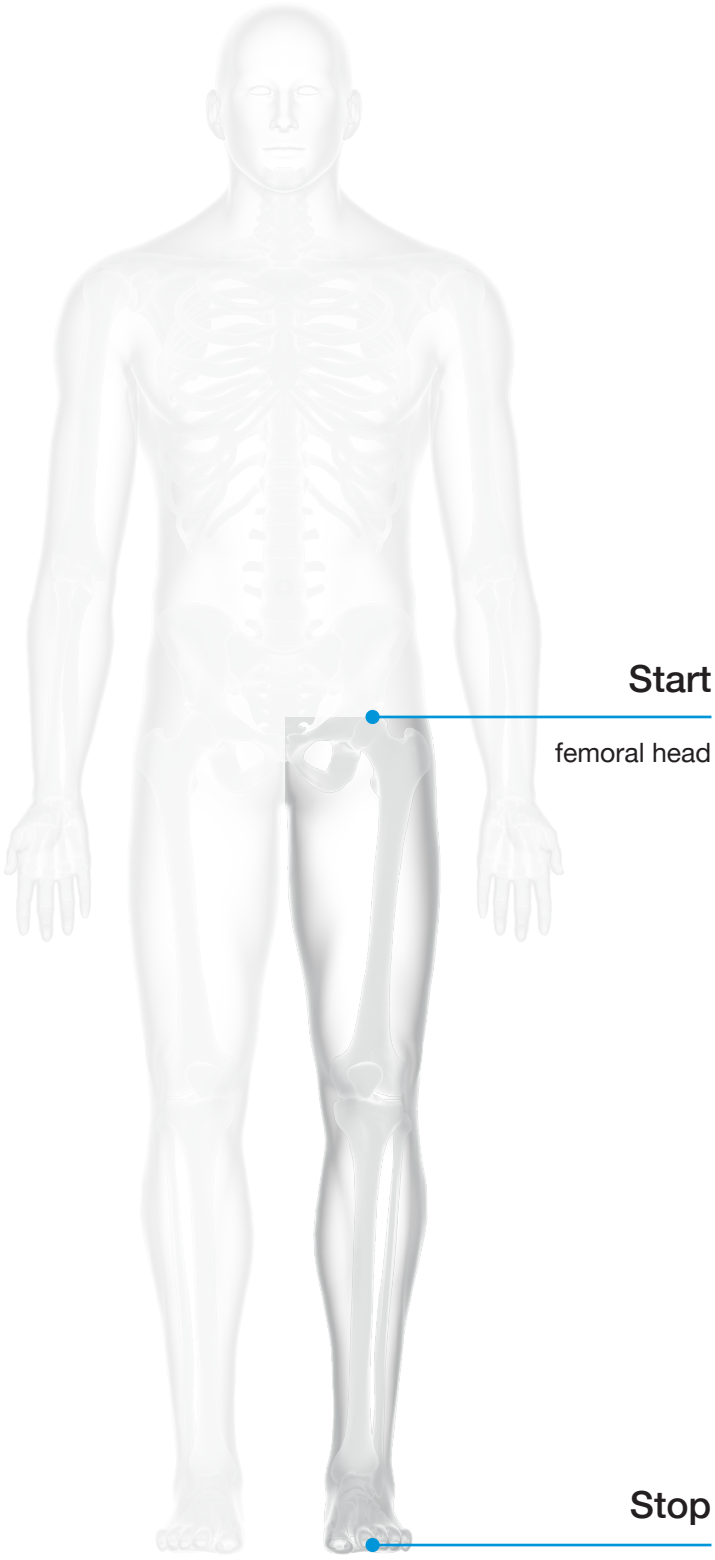
## 3. leg / total femoral replacement



**Start**

femoral head

**Stop**

distal to talus

Remark:

1. Additionally a bilateral topograms of the whole leg in frontal and lateral view are required
2. If necessary, expand the scan region to completely visualize in situ implants

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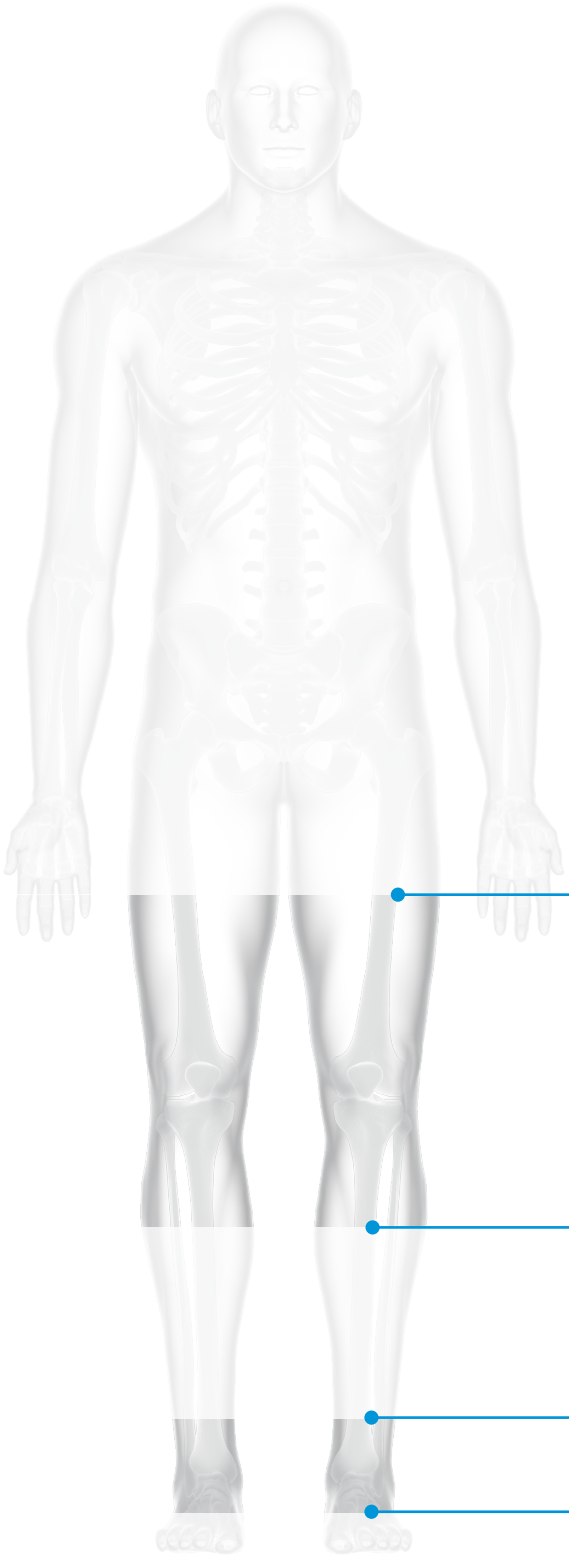
## 4. knee / distal femoral replacement



**Start**

approx. 200mm proximal to knee joint line

**Stop**

approx. 150mm distal to knee joint line

**Start**

**Stop**

Remark:

1. **Additionally a bilateral topograms of the whole leg in frontal and lateral view are required**
2. **If necessary, expand the scan region to completely visualize in situ implants**

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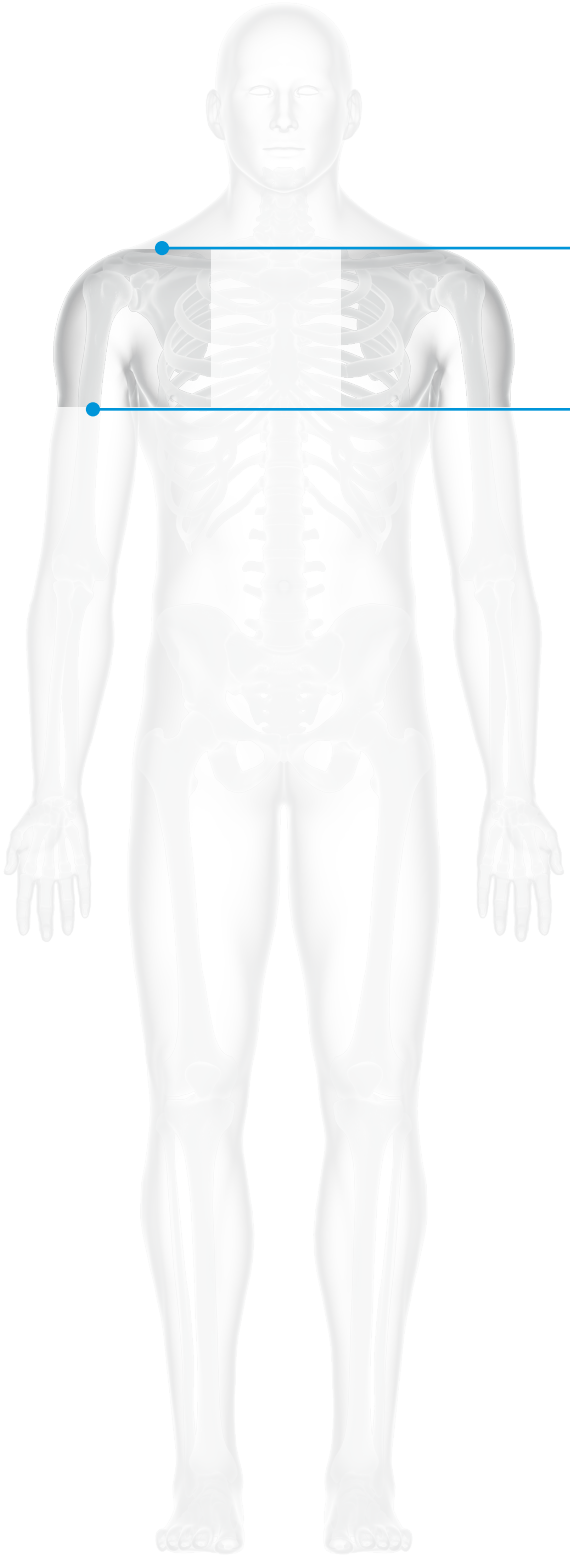
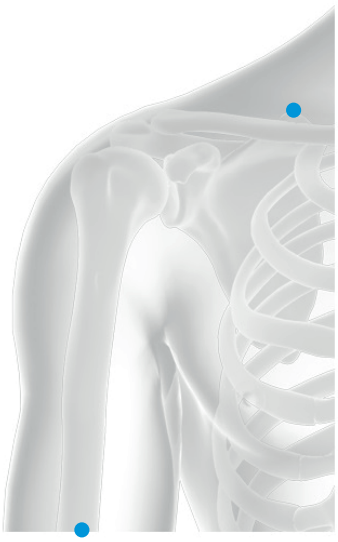
## 5. shoulder





**Start**

cranial scapula

**Stop**

approx. 150mm of proximal humerus

**Remark:**

1. **Additionally a bilateral topogram of the shoulder-breast-neck area in frontal view is required**
2. **If necessary, expand the scan region to completely visualize in situ implants**

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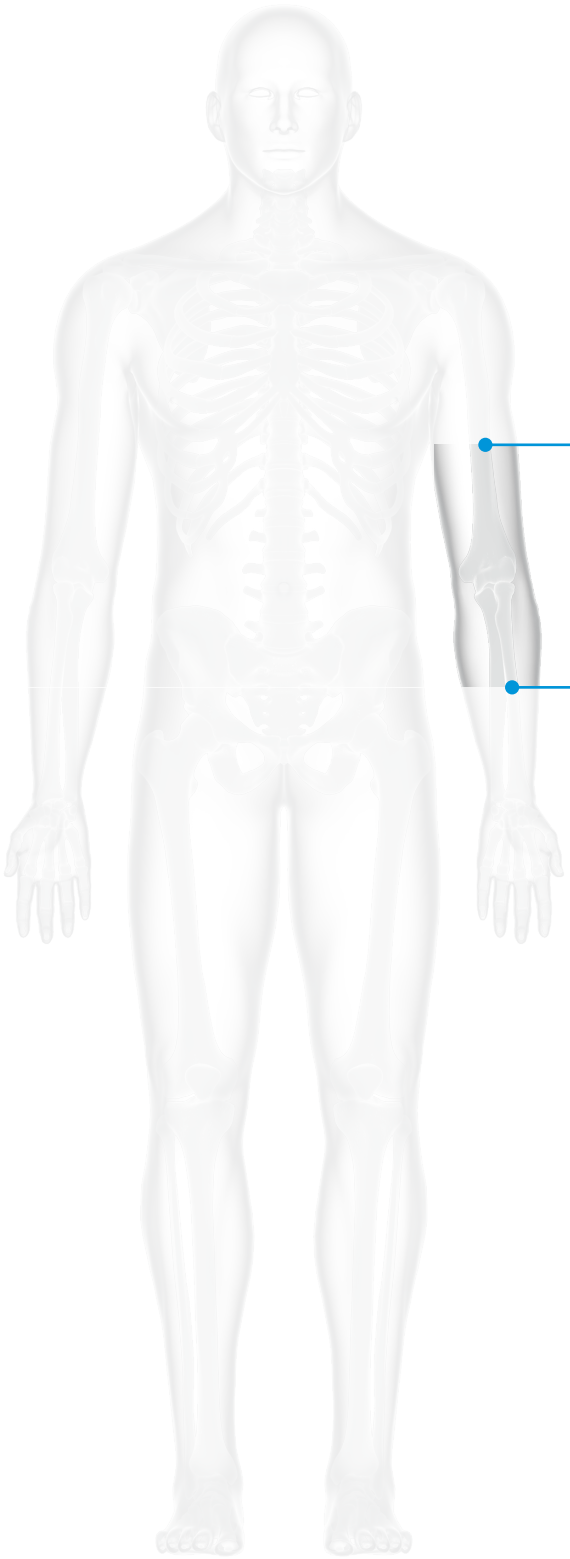
## 6. elbow



**Start**

approx. 150mm proximal to joint line

**Stop**

approx. 150mm distal to joint line

**Remark:**
**If necessary, expand the scan region to completely visualize in situ implants**

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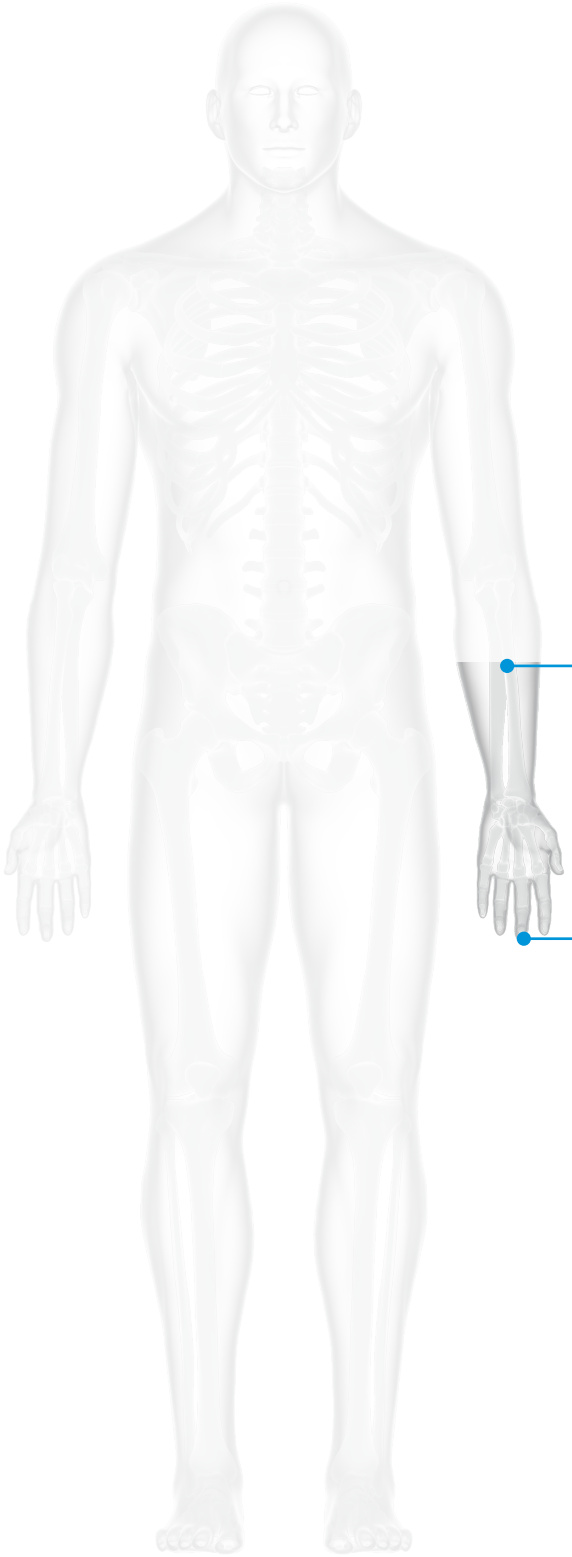
## 7. hand / wrist



**Start**

approx. 150mm proximal to the carpal bones

**Stop**

at finger tips

**Remark:**
**If necessary, expand the scan region to completely visualize in situ implants**

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