

Pre-requisites for the CT scan examination:

### Date

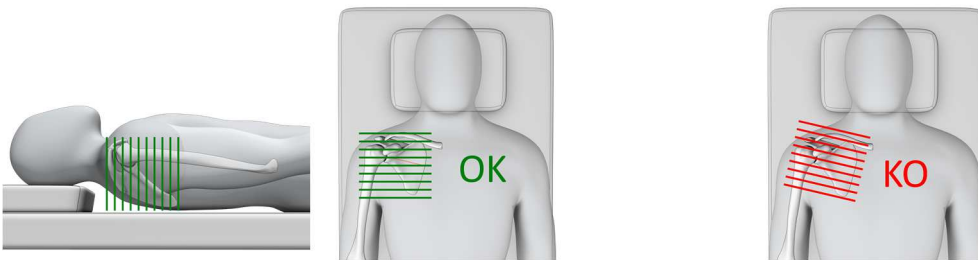
- CT exam should be performed **less than 6 months** prior to the surgery.

### Format

- DICOM Format
- Modality = 'CT'
- Hounsfield encoding
- Uncompressed images
- Non-encrypted and non-anonymized images (*patient sex and birthdate can be fake but must be present*)

### Resolution

- Pixels are square and constant for all the images
  - o The minimal resolution for an image is 0.3 x 0.3 mm/pixel (i.e. 512 pixels represent at least 154 mm)
  - o **The maximal resolution for an image is 0.8 x 0.8 mm/pixel** (i.e. 512 pixels represent no more than 410 mm)
- The interspace distance between consecutive slices is constant for the whole exam.
  - o Minimum distance: 0.3 mm
  - o **Maximum distance : 1 mm**
- The CT-scan images are pure **axial** slices (gantry tilt = 0°)



### Dimension

- The examination includes the entire scapula, complete to medial border and distal tip:



### Recommendations

- The CT-scan will typically contain between 200 and 450 images.
- The patient must not move during the exam.
- Injectable contrast must not be used, as it can occlude imaging and reconstruction of the CT scan.
- Recommendation for machine settings: kilo volt peak (KVP)  $\geq 120$
- Exam can be rejected if images quality is altered. This can be caused by:
  - o Patient motion during examination
  - o Metallic artifacts

The CT-scan must be stored on a CD-ROM or a USB stick.

### INFORMATION

ExactechGPS was CE approved in 2010. Total Shoulder Arthroplasty application was CE approved in 2016.  
For additional product information, please contact:

Manufacturer:  
Blue Ortho  
6 Allée de Bethléem  
38610 Gières – FRANCE  
e-mail: [service@blue-ortho.com](mailto:service@blue-ortho.com)

