


CT Scan Protocol

Clavicle

The CT scan quality is critical to the production of accurate personalized implants and patient-specific guides. Deviations from this protocol may result in an unusable scan and delay of surgery. Please contact Meticuly team for further clarification.

Scanning Parameters

Region of interest	Full clavicle, acromioclavicular and sternoclavicular joints.	
Body side	Both left and right clavicles	
Matrix size	512 x 512	
Voxel size	0.3 – 0.5 mm	
Slice thickness	0.625 mm or smaller	
Feed per rotation	0.625 mm or smaller	
Pitch	1 or less	
Reconstructed slice increment	0.625 mm or smaller	
Reconstruction algorithm	Standard soft tissue	
Export File	DICOM	
File Format	Uncompressed standard	

CT Scanning Instruction

- Both left and right clavicles should be scanned with approximately the same setting.
- Scan the patient bilateral with two FOVs. Use a FOV for the left and a second FOV for the right clavicle in the same bilateral scan. Reconstruct the scan separately for left and right clavicle.
- If possible, position the patient as follows: head first, supine, arms at sides of the body and with the shoulder in neutral rotation. Cervical spine is in neutral position.
- Images scanned with no gantry tilt and no oblique reconstruction (i.e. use only primary axial images). No reformatting into coronal or sagittal planes.
- All slices must have the same field of view, reconstruction center, and table height.
- Scan with the same slice spacing, less than or equal to the slice thickness.
- Use the smallest field of view possible to capture the whole regions of the required bones. Capturing all soft tissue is unnecessary, only the bony regions are of interest.
- Scan quality with clear bony edges and details

Data Transfer

- Provide the complete data set of raw/original DICOM images to the surgeon
- Do not erase patient name and ID. Data will be anonymized by Meticuly on receipt of the data, after cross-check with prescription of the surgeon to ensure the images of the right patient are provided.