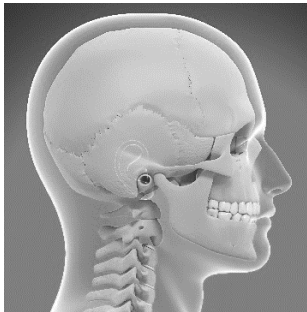


CT Scan Protocol

Cranio-Maxillofacial (CMF)

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	Complete skull or	
	Complete CMF region including mandible with condyle, orbital floor, maxilla, zygoma, nose, chin, and frontal bone	
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	
Export File	DICOM	
File Format	Uncompressed standard	

CT Scanning Instruction

- Helical (spiral) scanning mode is preferred for CT image acquisition
- Scan must be less than three (3) months old.
- Capture the complete cranio-maxillofacial region including mandible with condyle, orbital floor, maxilla, zygoma, nose, chin, and frontal bone.
- Align the patient in a way that prevents as many artifacts as possible and do not deform the soft tissue.
- Minimize the artifacts caused by metallic dental restorations or orthodontic brackets by aligning the patient's occlusal plane as much as possible with the axial slices.
- 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 and all soft tissue.

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.