CT Scan Protocol

Head

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	
Matrix size	512 x 512	
Voxel size	0.5 – 1 mm	
Slice thickness	maximum 1 mm	
Feed per rotation	maximum 1 mm	
Pitch	1 or less	
Reconstructed slice increment	maximum 1 mm	
Reconstruction algorithm	Bone / Details	
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 complete skull, if possible, or capture complete cranium part of the skull.
- Align the patient in a way that prevents as many artifacts as possible and do not deform the soft tissue.
- 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.
- 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.

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