



An accurate and good quality CT Scan is indispensable in the production of accurate patient specific implants, surgical guides and/or anatomical models. We kindly request you to strictly comply with the following protocols; as much as possible, for us to give you the best possible solution for your case. Adherence to the following guidelines will ensure optimal image quality. You can also reach out to us on info@osteoskill.com for further queries.

Patient Preparation:

- Remove non-fixed metal parts like jewellery, piercings, removable prostheses, etc.
- Make the patient comfortable on the scan table and provide instructions to the patient to remain completely still during the whole scan procedure.
- If patient motion occurs the scan must be re-acquired.



Scan Parameters:

- **Image modality** - Helical CT scanning
 - **Scan range** – Cover the complete region (preferably) and if not possible, compulsorily cover the region of interest/ area of pathology adequately.
 - **FOV** – FOV should be as small as possible with preservation of patient's outside contour.
 - **Patient Position:**
 - For the head & neck region the occlusal plane should ideally be parallel to the gantry.
 - Assure no positioning pillow is pressing onto the defect area
 - Scan the patient with a non-visible spacer between upper and lower dental arches.
- *Images can be distorted/scattered by previous placed implants or (dental) fillings; if necessary position the patient in such way that the area is free of scattering.
- **Matrix** - 512 x 512 • **Radiation** - 120 kV (mA can be system managed)
 - **Gantry tilt** - 0° • **Slice thickness** – 0.625 (Maximum 1mm) (or thinnest possible collimation)
 - **Slice increment** - Contiguous slices
 - **Pitch** - ≤ 1 • **Window** - Bone or Detail algorithm

Export Parameters:

- Export the raw axial images in DICOM- format only with valid metadata. (contact us prior to sending anonymized data sets).
- DO NOT export the data as image files (*.jpeg, *.png, etc.).
- NO secondary reconstructions; images must be scanned at the preferred parameters or smaller.
- Lossy compression is NOT allowed (ISO_10918_1, ISO_14495_1, ISO_15444_1 or ISO_13818_1).
- Once the data has been successfully exported, please convert the study folder into a compressed archive (".rar", ".zip", ".7zip", ".gz" are supported archive formats). The archive name format should be as follows:

"PatientName_DateOFDATAUpload_ReferringDoctorOrSurgeon"

Uploading the Data:

- Once the data set has been properly archived, please mail us this archive file at data@osteoskill.com (via google drive, wetransfer or dropbox).
- We will send you a mail when the data set has been received and we have checked the integrity and quality of the same.
- Osteoskill does not share patient data with anyone and requests for the processed data will not be entertained under any circumstances.

*For Region Specific Protocols, please contact us directly: info@osteoskill.com