The quality of the CT scan is the most important aspect of creating case-specific anatomical models and prostheses. Biomet Microfixation and Medical Modeling understand concerns about keeping the radiation doses to patients as low as possible; therefore, please use these guidelines as appropriate for your patients. Please do not hesitate to contact our HTR hotline at 904.741.9242 with any questions.

KEY GUIDELINES

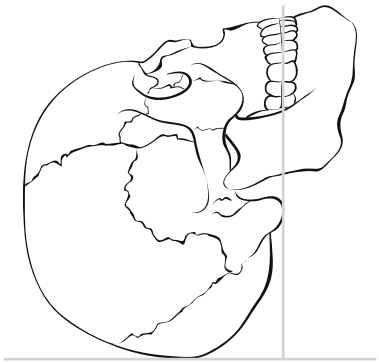
- Use a 3D scanning routine that provides high resolution images as comparable to image guided surgery, stereotactic planning, or other 3D applications.
- Acquire scans at a high spatial resolution. Series should be acquired with thin, contiguous image slices (equivalent thickness and spacing of 1.25mm or less) and as small a field of view (FOV) as possible while still including the patient's external contour.
- Scan 2cm above and below the area of interest. For cranial defects, please include the entire defect plus 2 cm above and below the defect. If unsure, please scan from hard palate through the skull vertex.
- Provide images in the original scanning plane. If software post-processing is performed to reorient or reformat the scan volume, then a series of thin slice images in the original acquisition plane **MUST** be included.
- Do **NOT** use a gantry tilt during image acquisition. Images acquired with gantry tilt and then post-processed to reorient images (i.e. "take out" tilt) are not acceptable.
- Please ensure that scans are free from motion artifact. Patient must remain completely still through the entire scan. If patient motion occurs, the scan must be restarted. Image distortion from patient motion can severely compromise the accuracy of a model.

PREFERRED SCANNING PARAMETER*

Scan Spacing:	Less than 1.25mm (equal to slice thickness)
Slice Thickness:	Less than 1.25mm (equal to scan spacing)
Field of View:	25.0cm
Algorithm: (examples)	GE: Standard (not bone or detail) Siemens: H30s Toshiba: FC20 Philips: B
Gantry Tilt:	0°
Archive Media:	CD or DVD
File Type:	DICOM (uncompressed)
Series:	Original/Primary/Axial (No recon, reformat or post process data)

PATIENT POSITIONING

Occlusal plane should be parallel to the gantry



NOTE: Please save protocol as Biomet Microfixation HTR, and in the Study Description field, put BIOMETMF. Scans must be less than 6 months old.

* If scanner cannot meet above parameters, please contact Medical Modeling for further instructions.

SHIPPING AND CONTACT: HTR-PMI COORDINATOR

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