

TJ's Biomedical Imaging

Maxillofacial CT Scanning Protocol

*** Warning - CT Scanning may be harmful. Please consult with your physician first before obtaining a scan.**

Thank you for taking a moment to look through this protocol. The quality of the CT scan is extremely important in the reconstruction process. By following a few simple guidelines the data will be cleaner and the accuracy of the reconstruction will be better. Please do not hesitate to contact TJ's Biomedical Imaging at (801) 228-0836 with any questions or concerns.

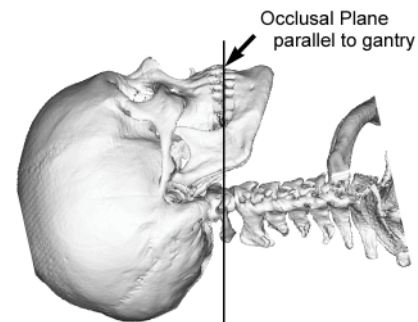
Guidelines:

- Acquire scans at a high spatial resolution. The series should be acquired with thin, contiguous image slices (<2.0mm, 0.75 – 1.25mm is better) and as small a field of view (FOV) as possible while still including the patient's entire head, including chin and ears. Patient must remain completely still through the entire scan. If patient movement occurs the scan must be restarted.
 - Do not use a gantry tilt in scanning patients.
 - Image artifact caused by metallic implants can obscure anatomy of interest. Please take steps to minimize artifact from the presence of metal. It is useful to position the patient so that the occlusal plane is parallel to the image plane (see figure). This can help to limit artifact from metallic dental restorations to the region around the teeth.
 - Save all data in DICOM format to a CD or DVD disk.
-

Sample image protocol for study:

- Acquisition: Helical / Spiral
- FOV: 25.0 cm
- Gantry tilt: 0°
- Scan spacing: 0.75 -1.25 mm
- Slice thickness: 0.75 -1.25 mm
- Algorithm: Standard (not bone or detail)
- Pitch: 1:1

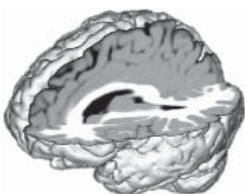
Patient positioning:



If using a multidetector scanner please be sure to reconstruct images as thin sections (<2.0mm, 0.75 – 1.25mm is better)

If using a single slice scanner please do not reconstruct images to slices that are thinner than the original acquisition. If using a single slice scanner please scan the patient with the thinnest slice thickness possible (<2.0mm, 0.75 – 1.25mm is better).

Shipping Info:



TJ's Biomedical Imaging

1077 West 1200 North

Orem, UT 84057

Phone: 801-228-0836

Fax: 866-524-4083

Web Site: <http://www.tjs-biomed.com/>

E-mail: info@tjs-biomed.com