

BILATERAL FOREARM CT SCAN FOR 3D SURGICAL PLANNING

This is a bilateral forearm study that will allow segmentation of the relevant anatomical regions for the development of surgical guides and customised implants for osteotomies of the radius.

The request shall be coded with the name LAB3D.

Region to study	Bilateral forearm
Position of the patient	Prone decubitus, head first

Acquisition

Acquisition protocol	3D Forearm
Region to be studied (topogram)	From the elbow to the wrist (taking the whole carpus). It is possible to do a CT scan for each laterality.
Field Of View (FOV)	Adjust the FOV so that it does not cut off any anatomical region, making sure to include the entire forearm. Only bony regions are of interest, so it is unnecessary to include soft parts.
Matrix	512x512
Detector collimation	0.625 mm
Pitch	≤ 1
KVp	90-120 or higher if metal or obese person
Automated exposure control	Activated
Rotation time	≤ 1s

Reconstruction

MPR (Multi Planar Reconstruction)	Reconstruction in the three planes of the complete study.
Reconstruction algorithm	Single soft parts window
Cutting thickness MPR	0.625 mm

For any classification or new suggestions, please contact us:

Alex Blanch

ablanch@3dptlab.com

Diego I. Ribas

diribas@tauli.cat

CT SCAN PROTOCOL Upper extremity. (2021) - Materialise

https://www.materialise.com/system/files/uploads/resources/Scan%20protocols/L-102000_Scan%20Protocol_Osteotomies_UE.pdf