

## SHOULDER CT SCAN FOR 3D SURGICAL PLANNING

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

**The request shall be coded with the name LAB3D.**

Region to study	Shoulder
Position of the patient	Supine decubitus, with arm at the side of the body

### Acquisition

Acquisition protocol	3D Shoulder
Region to be studied (topogram)	Include the entire scapula and proximal humerus to the lower pole of the scapula.
Field Of View (FOV)	Adjust the FOV so that it does not cut off any anatomical region, making sure to include the entire scapula and proximal humerus. Only bony regions are of interest, so it is unnecessary to include soft parts.
Matrix	512x512
Detector collimation	1.25 mm
Pitch	$\leq 1$
KVp	100-140 or higher if metal or obese person
Automated exposure control	Activated
Rotation time	$\leq 1s$

## 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:

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CT SCAN PROTOCOL Shoulder. (2019) – Materialise

<https://www.materialise.com/system/files/resources/Materialise%20Shoulder%20Guides%20CT%20Scanning%20Protocol.pdf>