

**CT-Scan protocol for the use of
Personal Fit[®] software**

To the attention of the imaging centers

1) Subject

The protocol describes the required configuration of CT-Scan for a 3D pre-operative planning and the design of Patient Specific Templates. So the acquisition will focus on bone structures around the joint. The 3D reconstruction and the specific data processing carried out by ASTON Medical impose that the CT-Scan parameters comply with this protocol.

2) Protocol

CT imaging area

- The acquisition area must cover **completely the scapula and the humerus.**

Slice thickness and increment

- 1mm x 1mm or thinner.
- Contiguous or interlaced slices.

Field Of View (FOV)

- Use a FOV **as small as possible** (25cm maximum).
 - This setting requires checking the acquisition of the whole area.

Matrix

- Use a 512x512 matrix.

Table position

- Don't raise or lower the table during the data acquisition.
- Don't change the X and Y center during the data acquisition.



Patient position

- Scapula at the center of the gantry if possible.
- Patient in supine position.
- Arm in neutral position.

Algorithm

- Use a *Standard* or *Soft Tissue Algorithm* without contours improvement.
- Don't use a *Bone Algorithm*.
- KVP 120 or 160 mAs or more.

3) Data transmission

The DICOM files are directly uploaded on the planning site or sent on CD to ASTON Medical at the following address. Be careful to identify the patient on it.

Aston Medical
19 rue Victor Grignard
42000 Saint-Étienne
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The mail is addressed to Anabelle ROMANELLI

4) Contact details

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5) Warning

This protocol has no contractual value. ASTON Medical reserves the right to make changes aiming at improving the quality of the service without notice.