



Patient Specific Templates: Spine CT Scan Protocol

This document outlines the optimal CT scan protocol to enable us to produce high-quality patient specific templates for the spine. Please note that all scans must be collected no sooner than 6 months prior to surgery.

- 1) Position the patient supine, taking into consideration that all axial sections must have the same field of view, whilst maintaining the same reconstruction centre and the same table height.
- 2) Scout from proximal to distal spanning the region of interest (such as scoliotic vertebrae) using the parameters listed below or the closest possible depending on available options. Example images are provided below in Figures 1 and 2.

Slice thickness	0.5 mm
Total number of slices	200
CT-Scan Range	5cm proximal and distal to the region of interest
Slice increment reconstructed	1.0 mm
Matrix	512 x 512
Gantry Tilt	0°
Reconstruction Algorithm	No 3D reconstruction needed
Special Requirements	No filter or image intensification required

- 3) Save the Scanogram image and the CT date in DICOM format and in the same folder.
- 4) Upload the data to the [SurgiNovi Portal](#) or, alternatively, email it to info@surginovi.co.uk.



Figure 1: Exempler Scanogram in the antero-posterior position.

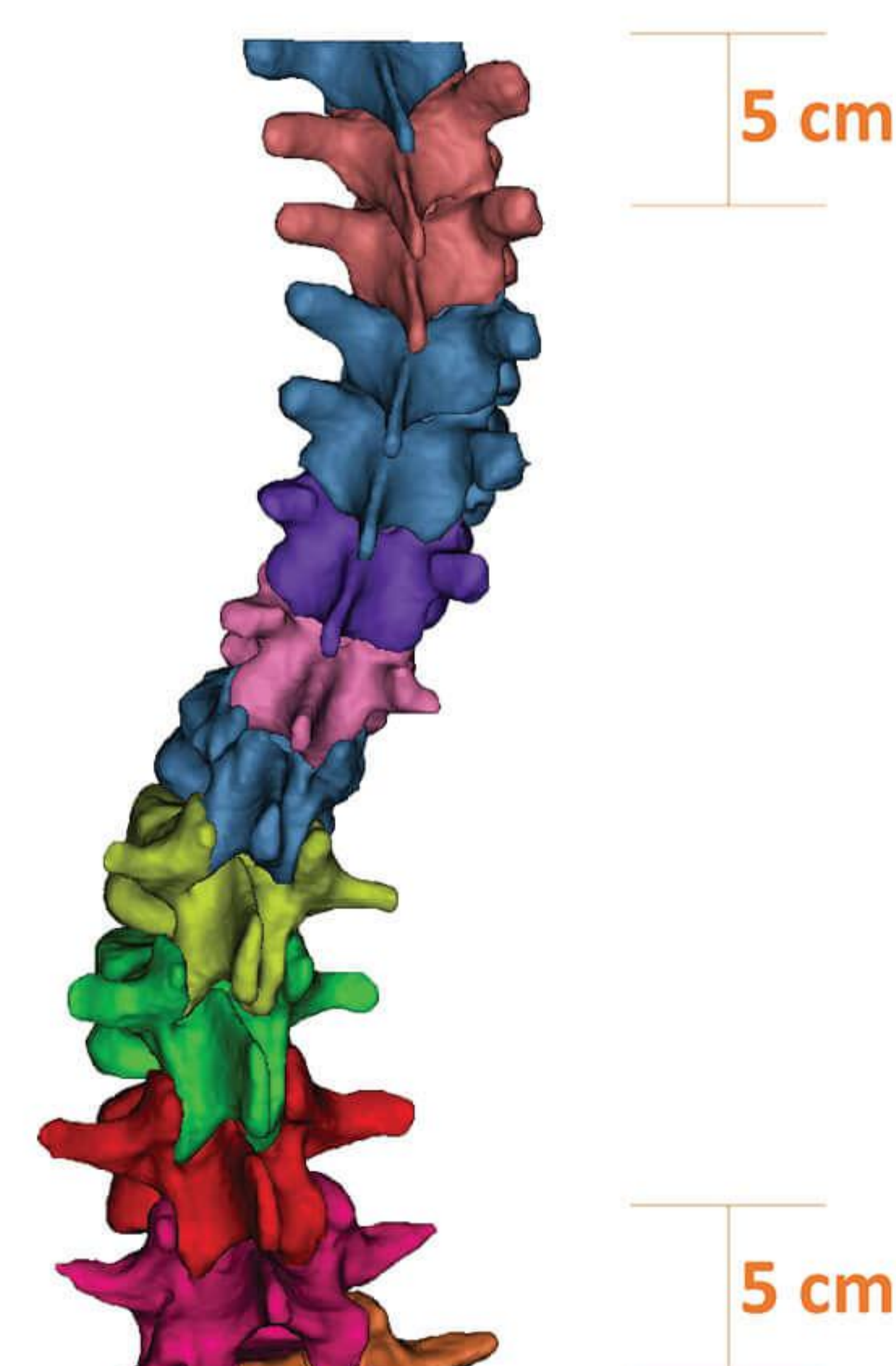


Figure 2: Full CT scan demonstrating 5cm proximal and distal to the region of interest