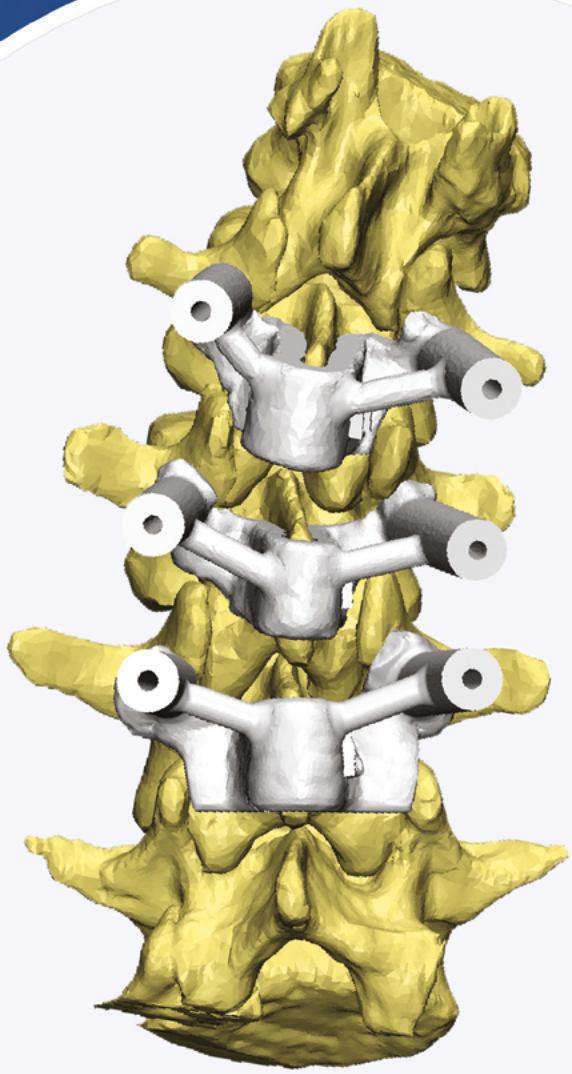
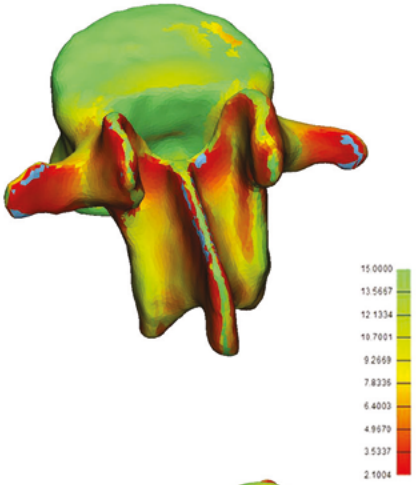
SurgiNovi
Rapid Reproducible Results

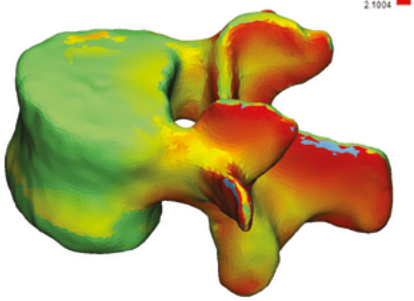


SURGINOVI PREOPERATIVE PLANNING

FOR THE CORRECTIVE SURGERY OF SCOLIOSIS CASES USING SURGISCOL PATIENT SPECIFIC TEMPLATES

www.surginovi.co.uk





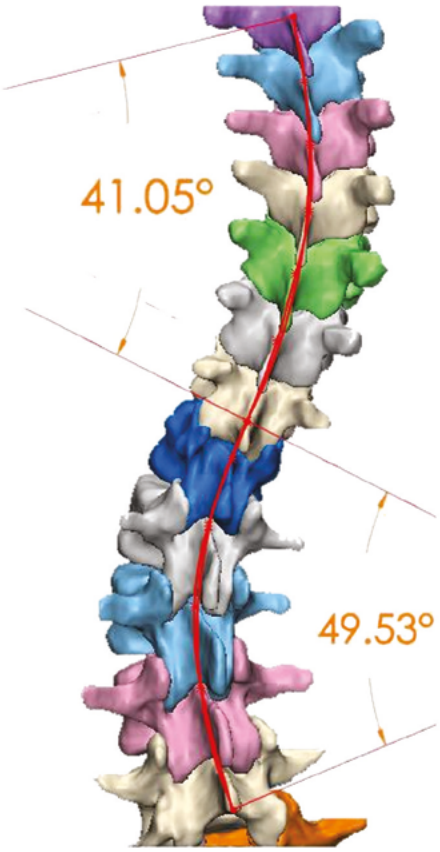
1 — **2** — **3**

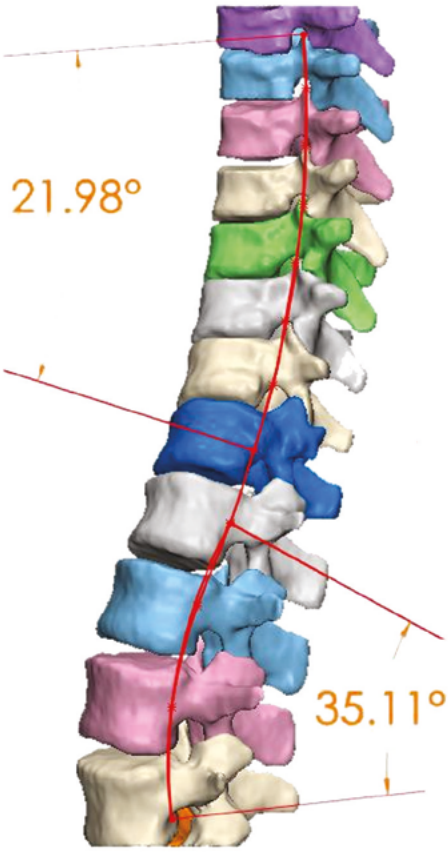
3D reconstruction of each vertebra is based on the uploaded CT scan.

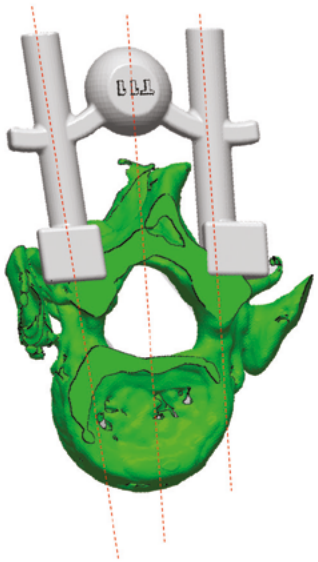
Bone density analysis is conducted on each reconstructed vertebra.

All vertebrae requiring correction are selected by the operating surgeon.

The preoperative planning illustrated above is based on applying sophisticated, indication specific, and proven software programmes to convert the patient's unique CT scan into a full-length 3D model representation of their vertebral column that enables the operating surgeon to determine exactly which vertebrae require fixation to perform scoliosis correction.







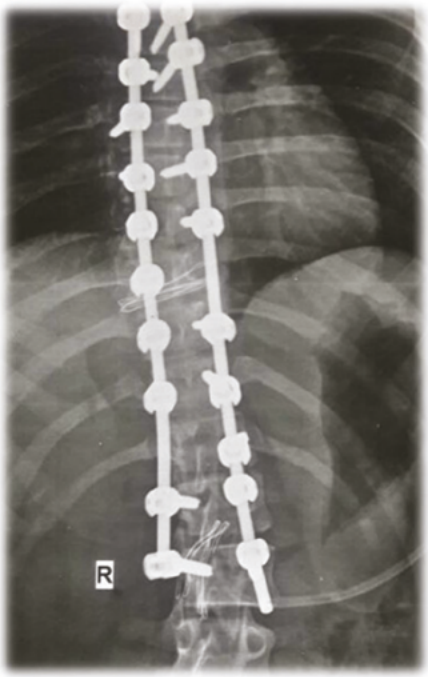
4 — **5** — **6**

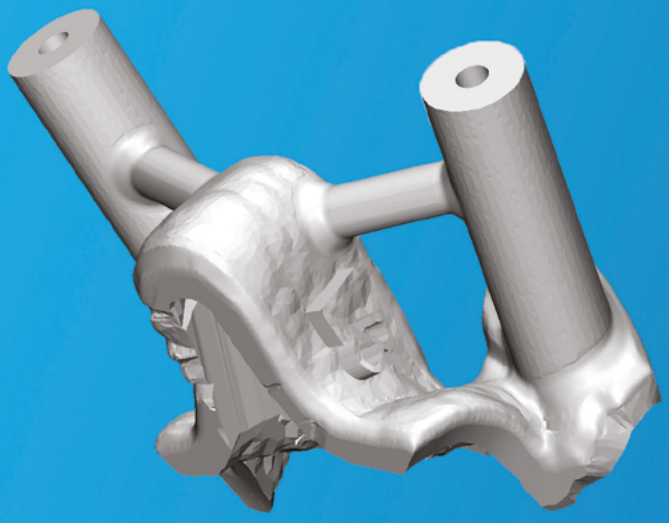
The Cobb angles are measured in the coronal plane (MT and TL/L).

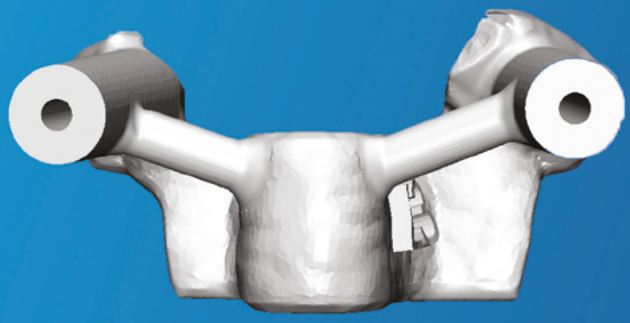
The Kyphosis and Lordosis angles are also measured.

The SurgiScol spinal patient specific templates are accurately positioned.

SurgiScol patient specific templates are used for the accurate positioning, placement, and fixation of all the pedicle screws required to correct complex scoliosis deformities. This technique significantly reduces radiation exposure and operating time which are both critical factors in lengthy scoliosis procedures which can require the insertion of a large number of pedicle screws at awkward and difficult trajectories.







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