



## SimpliCT® clinical case report: Osteoid osteoma RF ablation

Courtesy Maarten Kroes and Professor Leo Schultze Kool, Radboud University Nijmegen Medical Centre, Netherlands

### Treatment:

Destruction of osteoid osteoma inside vertebra using ablation. Philips C-arm flat panel detector, Philips Xperguide software and SimpliCT used for navigation.

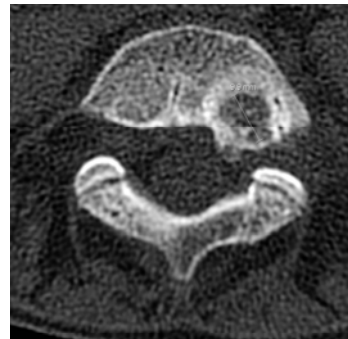
All images courtesy of Maarten Kroes, Radboud University, Nijmegen Medical Centre

### Procedure:

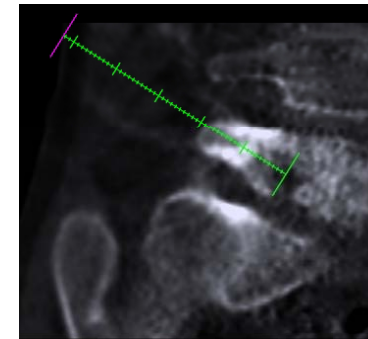
Radiofrequency ablation needle is placed in the centre of the lesion. It is important to not damage any nerves in this area. A problem is the size of the drill which does not fit into the gap between the patient and the C-arm, not allowing entry point control scans.

### Result:

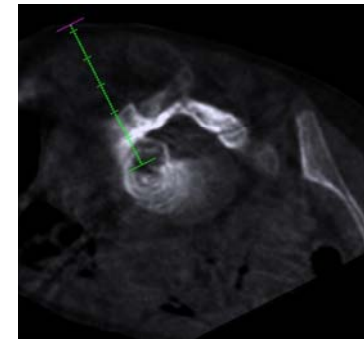
XperGuide together with SimpliCT are able to place a needle onto the lesion. The skin entry point was found. The needle was drilled into the planned needle angulation using SimpliCT. The progression of the needle was visualized using the C-arm in progress view. The tumor was hit by the needle, and destroyed with RF ablation.



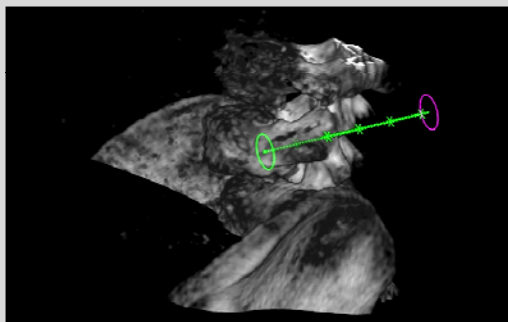
Osteoid osteoma seen in the vertebra



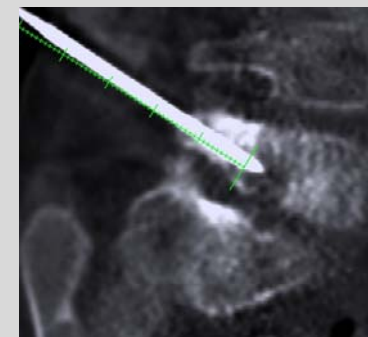
Sagittal plane planning



Transverse plane planning



3D planning of the needle trajectory



Sagittal plane after insertion of needle.



Transverse plane after insertion of needle.