

## **3D-Navigation bei Beckenfrakturen mit dem ISO C 3D**

### **3D Navigation with SIREMOBIL ISO C 3D in fractures of the pelvis**

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The mobile SIREMOBIL ISO C 3D is the first device that permits the intraoperative three-dimensional representation of bone structures. The link established between the SIREMOBIL ISO C 3D and the navigation system with the integrated NaviLink interface makes it possible to transfer the generated 3D data directly to the connected navigation system. The aim of this study was to evaluate the clinical advantages of 3D Navigation with SIREMOBIL in osteosyntheses of fractures of the pelvis.

In the period from August 2001 to December 2003 a total of 16 patients with fractures of the pelvis and screw osteosynthesis were registered in a prospective study.

One screw showed an intraforaminal malplacement, without neurological defects. All other screws were correctly positioned during the postoperative controls. The average fluoroscopy time for recording the 3D scans and performing the 2D control measures was 1.38 minutes, this is a great reduction of the radiation exposure, compared to standard procedures. The most important aspect however is certainly the precision of the navigation.