



Navigated Hip Replacement

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Your orthopedic surgeon plans the surgery with the help of X-ray images. The navigation system then helps him during the operation to insert the prosthesis exactly as planned and with great accuracy.

The more precisely the prosthesis is inserted, the longer its life and the lower the risk for complications.

During the surgery, the surgeon temporarily attaches two navigation markers, one to measure the position of the pelvis, and a second for the femur. These allow the navigation system to know the shape and alignment of your joint to ensure the surgeon can accurately recreate your natural anatomy.

After measuring your anatomy, the navigation system displays the exact angle when implanting the acetabular cup. When inserting the hip stem, the desired leg length can be fine-tuned to the millimeter.



The navigation system displays the angle of the acetabular cup implant during implantation. This allows the orthopedist to choose on the optimal alignment.

How does the navigation work?

Navigation in orthopedic surgery is like navigation in a car: the orthopedic surgeon plans a target position for the implants. Navigation helps him to reach it. The surgeon can deviate at any time and make individual adjustments while always knowing exactly where he is.

Navigation in 3 steps

1. Referencing

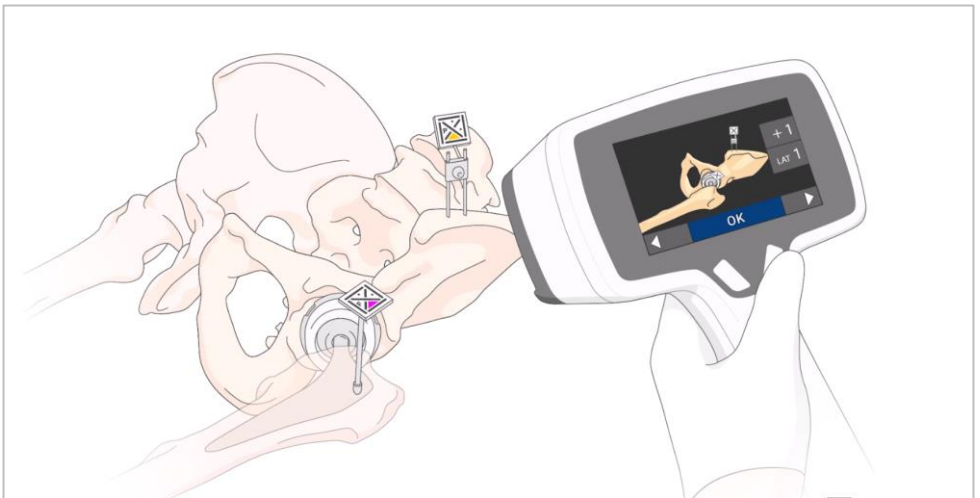
After attaching the measuring markers, the anatomy is measured.

2. Navigation

The insertion of the cup is supported by the navigation by displaying exact angle measurements.

3. Documentation

Finally, the leg length is adjusted and everything is documented.



When inserting the femoral stem, the leg length can be fine-tuned with the help of the navigation and the surgery is fully documented.



Smart



Small



Accurate

Naviswiss is a Swiss company based in Brugg (AG). Our navigation system for orthopedic surgery was developed in cooperation with renowned orthopedic surgeons and has been used in operating rooms worldwide since 2018.