

MediMedia Database



Mesh Code: D012600, D013
 Keywords: IGOS, spine surg
 scoliosis, pa

Case descript
 curved idiopath
 Therapeutical
 from T5 to L3
 IGOS-techniq
 • computer bas
 • intraoperative

Pre-opera
 X-rays

Mesh Code: D012600, D013
 Keywords: IGOS, spine surg
 scoliosis, passive na

Case description: 17 year old female
 curved idiopathic scoliosis.
 Therapeutical procedure: posterior v
 from T4 to L3 + CD Horizon instrumer
 IGOS-technique used:
 • computer based planning of pedicle
 • CT image guided insertion

Pre-operative
 X-rays

Pre-ope
 CT-d

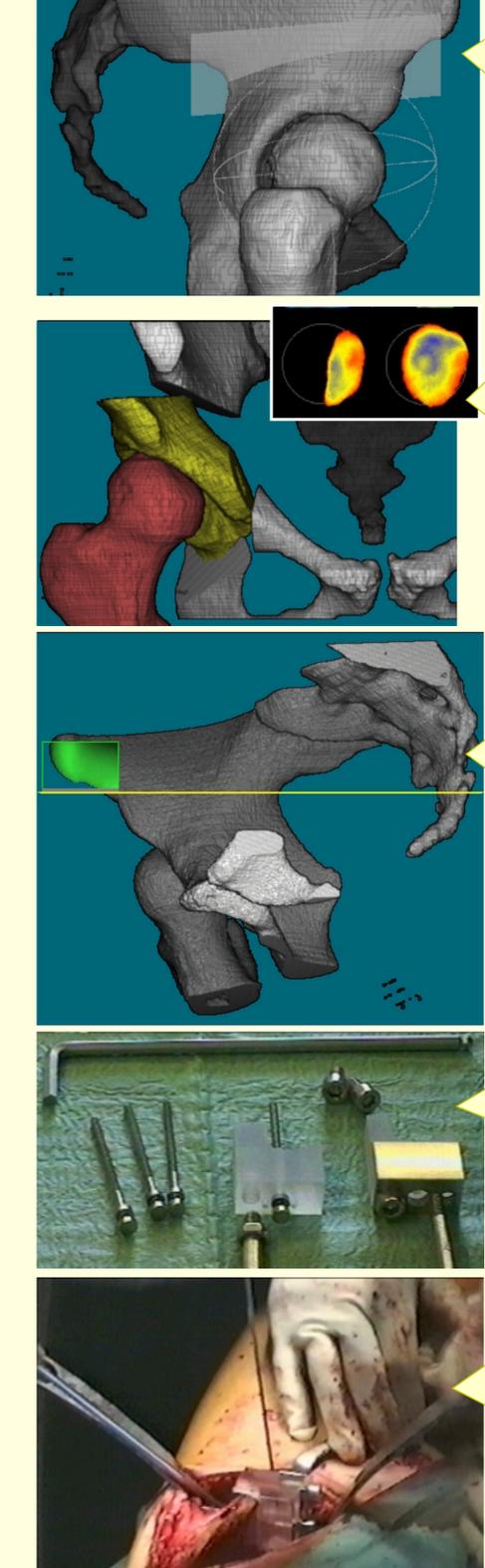
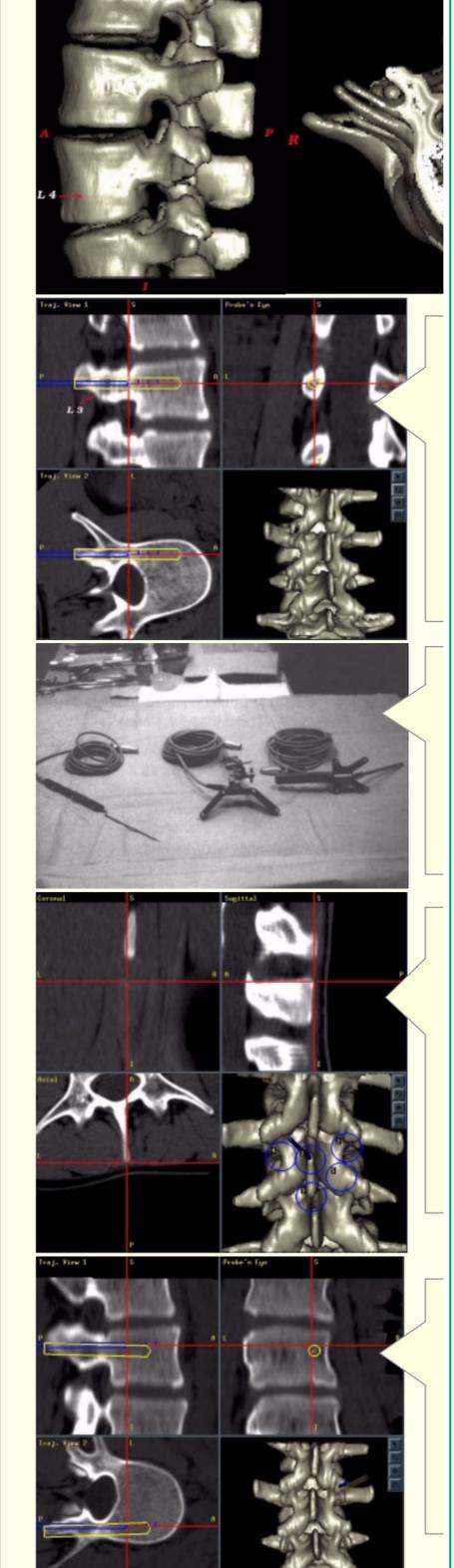
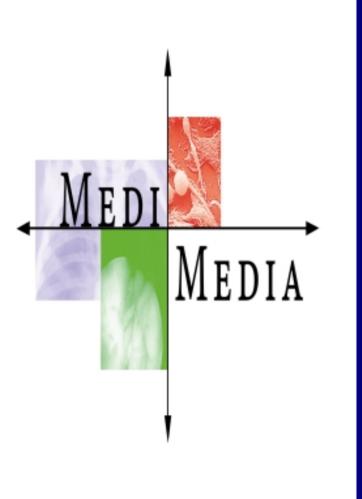
Mesh Code: D010934, D010384, D017699, D010027
 Keywords: IGOS, pelvis surgery, hip dysplasia, tripel
 osteotomy, individual templates, ...

Case description: 15 year old female with hip luxation on the right and ...
 Therapeutical procedure: TOENNIS triple-osteotomy, enhancement of
 the coverage of the femoral head (in order to achieve pain relieve), ...
 IGOS-technique used:
 • computer based planning with DISOS
 • intraoperative guidance by individual templates

Pre-operative
 X-rays

Pre-operative
 CT-data

Post-operative
 X-rays



Computer guided planning
 of the ilial osteotomy
 for a tripel osteotomy
 according to TÖNNIES
 IGOS-System used:
 DISOS (Helmholtz-Institute, Aachen, Germany)

Computer based simulation
 of the repositioning of the
 acetabular fragment after
 a tripel osteotomy; the coverage
 of the femoral head is analysed in 3D
 (inlay image: left before
 vs. right after repositioning)
 IGOS-System used:
 DISOS (Helmholtz-Institute, Aachen, Germany)

Computer based planning of the
 position of the Individual Template
 on the bone surface
 IGOS-System used:
 DISOS (Helmholtz-Institute, Aachen, Germany)

intraoperative set of instruments:
 automatically manufactured
 customized toolguides
 (Individual Templates)
 (autoclaveable at 135°C, 20 min.)
 ready for surgery
 (within less than 60 min. after
 reception of the CT-dataset)

The Individual Template precisely
 fits on bone and indicates
 automatically the planned position
 of the osteotomy
 • no additional intraop. equipment
 • no additional registration
 • reduced OR-time
 • reduced blood loss
 • reduced time of x-ray control

Intra-op. X-ray controls