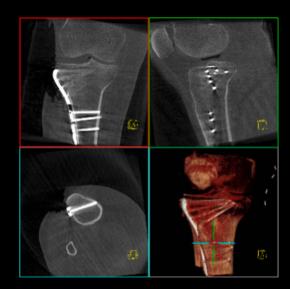
Study protocol

# Proximal tibia fracture

Ortho/trauma surgery













### **Case description**

#### **Patient history**

Male, age 61-75 years.
Pedestrian involved in a car accident.
Pressure pain lateral knee joint
region and proximal tibia. Lateral
knee joint instability. Severely
limited range of motion of the
knee joint. No peripheral motor or
neurological deficits.

#### Diagnosis

Lateral fracture of the right tibia plateau type 21-B3 (Fig. 1)

#### Surgical procedure

ORIF – plate with angular stability: reduction of articular surface, filling of defect or adjustment osteotomy, plate fixation (Figs. 2-6)

#### Courtesy of

BG Trauma Center Ludwigshafen, Germany

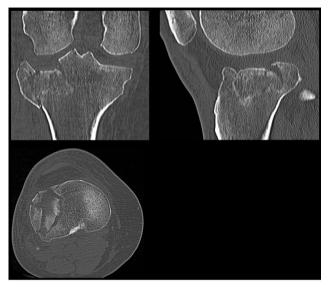
#### System

Cios Spin mobile C-arm



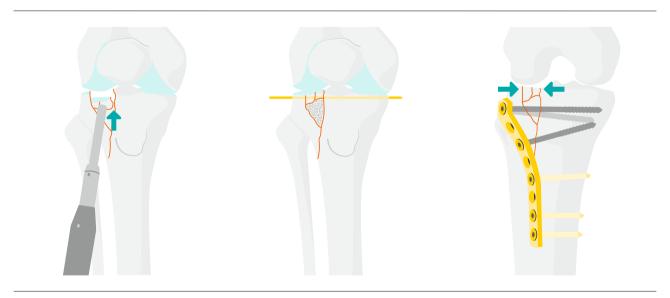
# Clinical images and illustrations

Fig. 1



Preoperative CT: coronal/sagittal/axial view of right knee joint. Multifragmentary fracture of the tibial plateau. Impression of articular surface

Fig. 2



ORIF – plate with angular stability

## Clinical images

Fig. 3



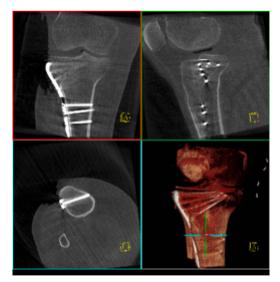
AP view of right knee joint: anatomical reduction of tibia plateau alignment. Correct plate position. No intra-articular screw penetration. Good bony contrast despite metal objects

Fig. 4



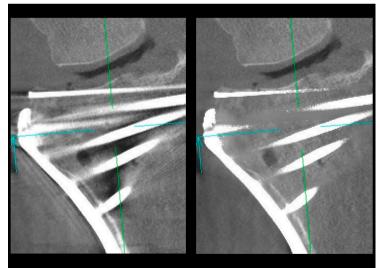
Lateral view of right knee joint: correct plate position. No intra-articular fragments or screw penetration. Good field of view

Fig. 5



3D scan of the knee joint: good bony contrast. Minor metal artifacts. Anatomical reduction of articular surface. No intra-articular fragments or screw penetration

Fig. 6



3D scan of right knee joint. Before artifact reduction (left): joint surface of lateral tibia plateau cannot be clearly defined due to metal artifacts. After artifact reduction (right): joint surface of lateral tibia plateau is now clearly delimited

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