

### Arguments for use of plate

- Reduction under direct control
- Meniscus can be safely repaired
- Metaphyseal defects can be addressed
- Ideal plate position easy to accomplish

### Implant choice

- 3,5 mm. radius T-plate (optional 3,5 LCP)
- 4 screws directly subchondral to support the reduced plateau surface
- Plate can be placed under focus of the fx.
- Overbending allows to use plate as a reduction-compression tool

Jubel et al Unfallchirurg 2006

### Tibial Plateau Fractures

**Metaphyseal bone defect**

**Risk of instability and loss of reduction**

### Autologous bone graft

**Advantages**

- Available
- Cheap
- Osteoinductive

**Disadvantages**

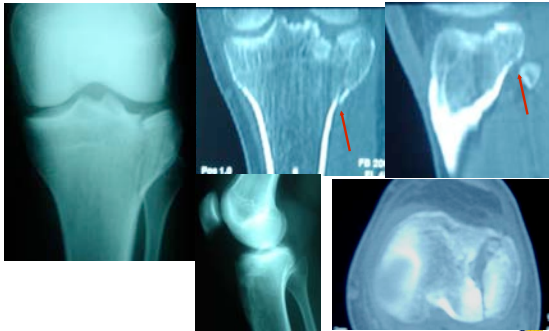
- Low primary strength
- Morbidity
- OR time

### Norian SRS

- Calcium phosphate (mineralic phase of bone)
- Injectable cold-hardening paste
- Compression strength:
  - 10 Min.: 12 Mpa.
  - 12 hours: 55 Mpa.

Lobenhoffer, J Orthop Trauma 16, 2003, 143-9  
26 cases, 2 y. follow-up

### D., J., 26 J., Skiing Injury



### D., J., 26 J., Skiing Injury



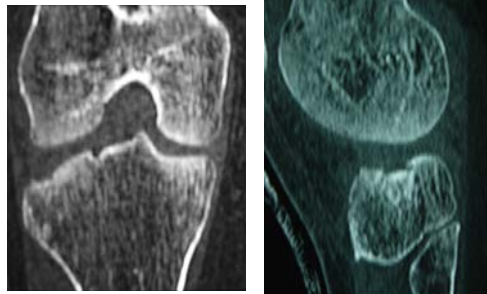
### D. J., 26 J., Skiing injury



6 weeks postop

### Norian SRS

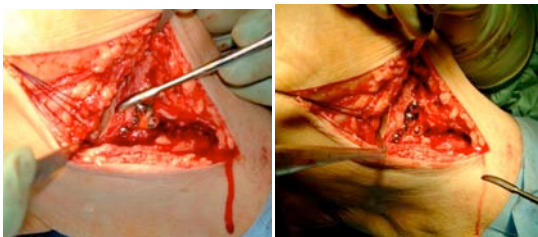
H.G., 61 J.



### Norian SRS

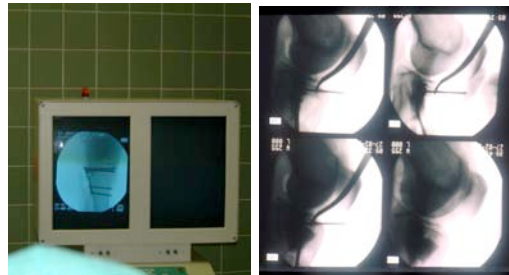
H.G., 61 J.

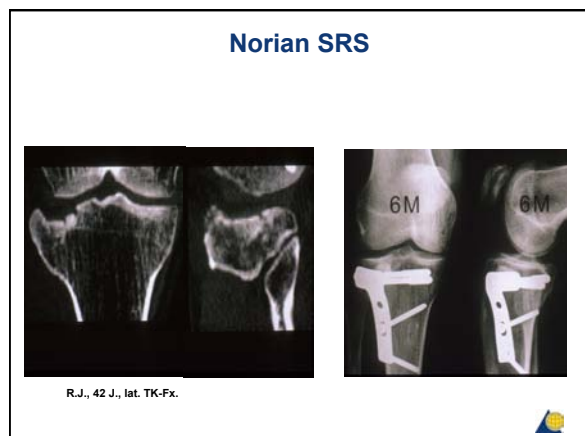
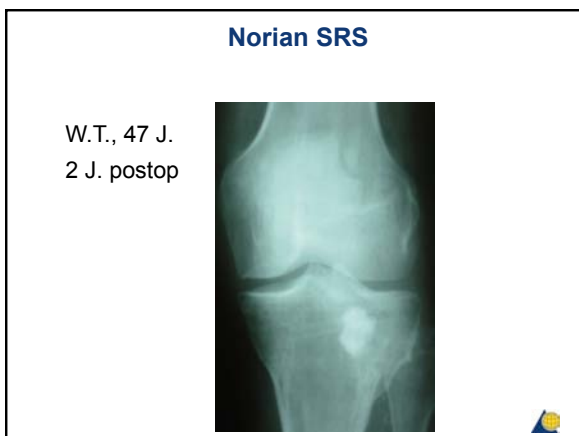
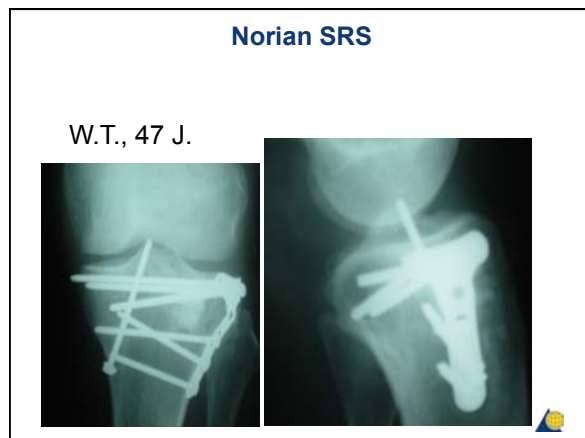
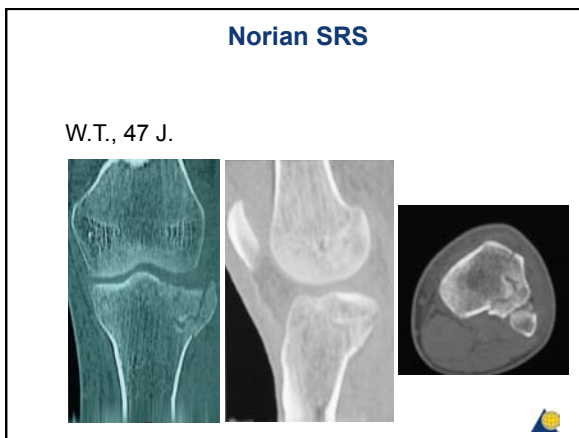
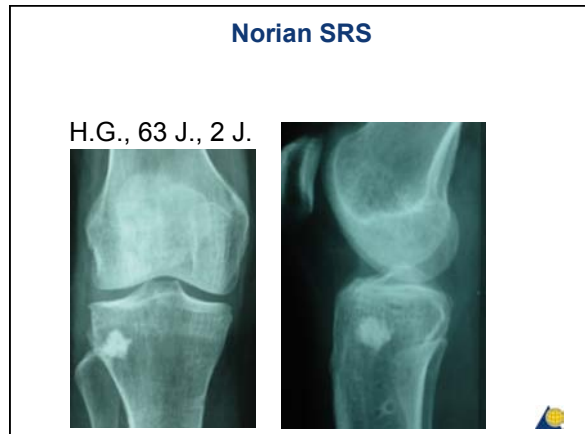
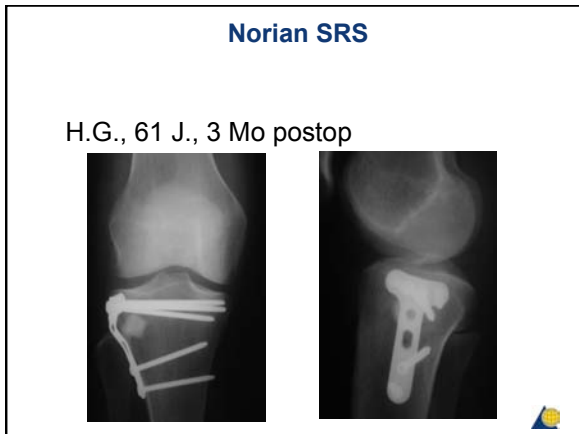
Reposition und Osteosynthese

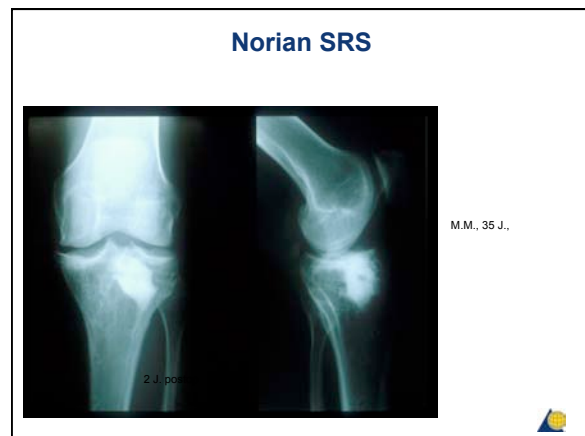
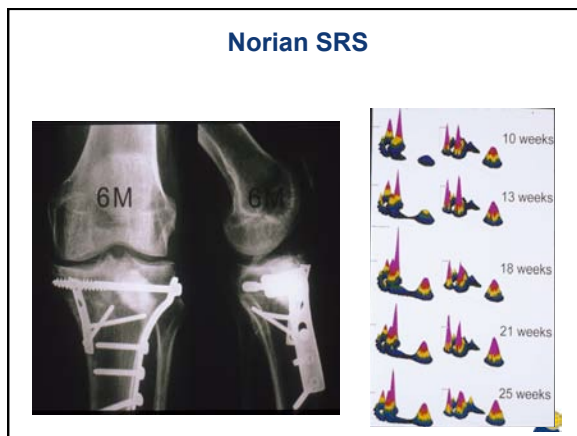
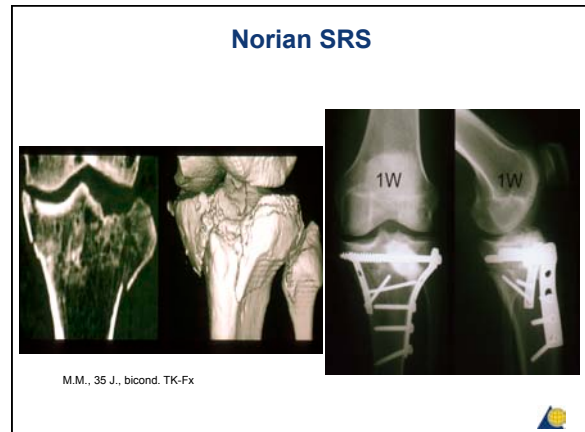
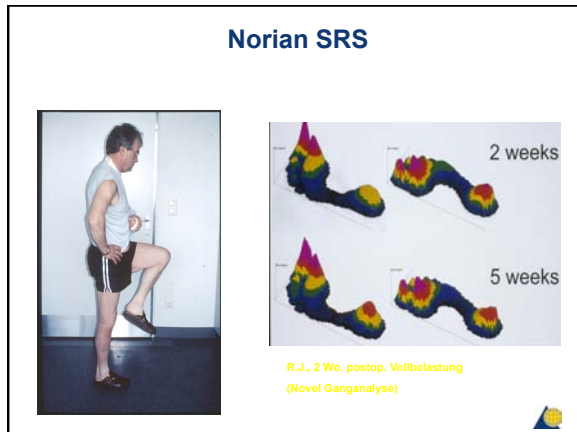


### Norian SRS

H.G., 61 J.







**Arguments for open plating**

- Surgery much easier and safer
- Unexpected findings can be adressed (large bone voids after reduction, additional fracture lines)
- Plate acts as reduction tool (compression)
- Rehabilitation time equal to MIPO
- Results equal