

AO-2022 Violation of principles

- Principles in fracture management
- Principles of soft tissue handling
- Principles in non-union treatment
- Principles handling infected bone
- Principles in.....
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- **Principles in fracture management**

- **Principles of soft tissue handling**

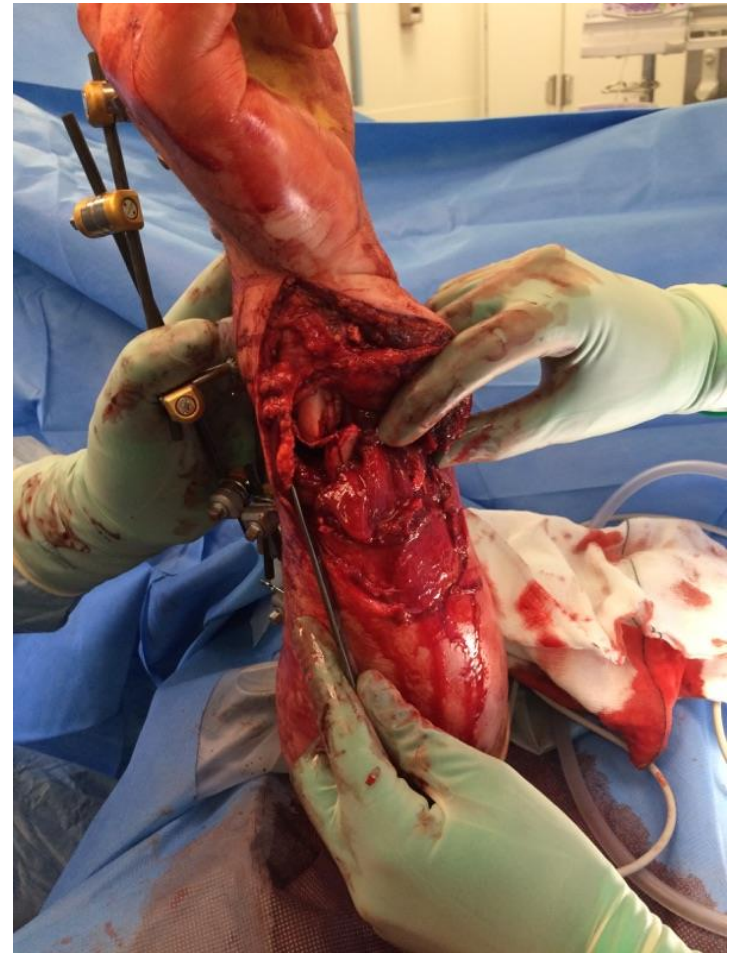


Learning objectives

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- At the end of the lecture, the participant will be able to:
- Realize that principles are there to be followed
- Recognize pitfalls when applying the right principles to wrong indications and vice versa
- Appreciate that complications are often the result of lack of planning, lack of knowledge and lack of skill

Principles of tissue handling

- (Antibiotics)
- Debridement
- Debridement
- Debridement
- Soft tissue coverage
- Soft tissue coverage
- Soft tissue coverage



Principles in fracture management

- **Absolute stability**
- Anatomical reduction
- **Relative stability**
- Near anatomical reduction, length, axis and rotation
- Length of plate versus number of screws
- **Implant rules**
- Choosing the right implant
- For the right indication
- Use the implant correct

Simpel strategy

- **The indication**
- **The choice of implant**
- **The principle of fixation**

- **Should always match**

- **Awereness of soft tissue**

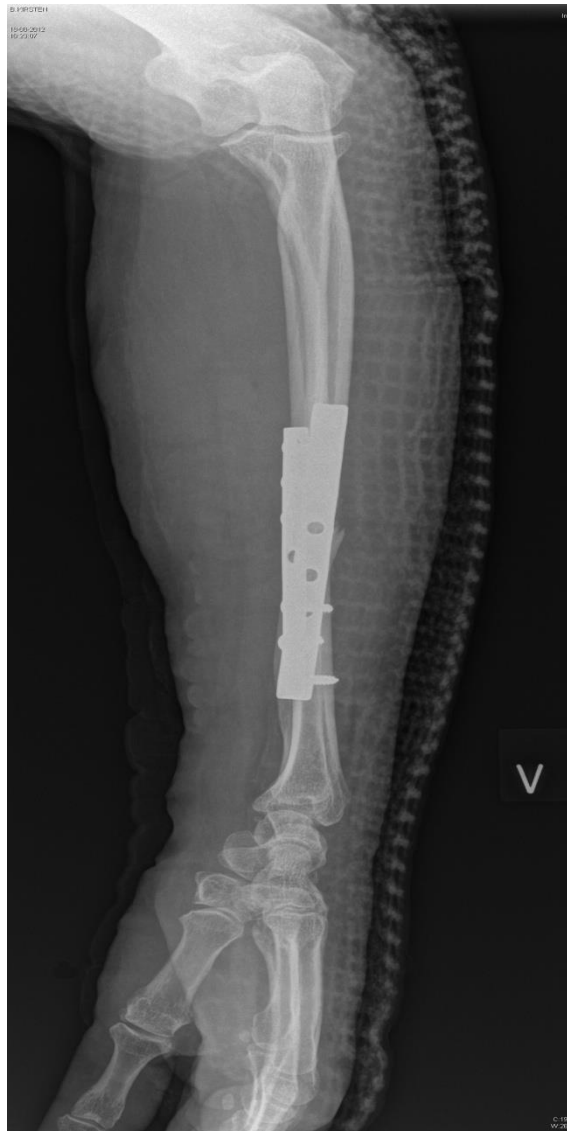
65 Y/O woman, healthy, soft tissue ok.



Post-op x-rays

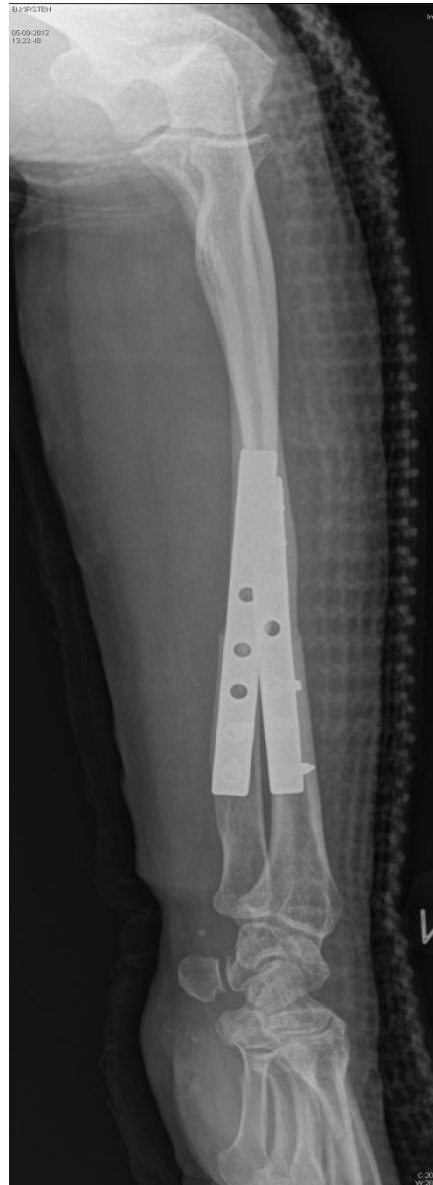


4/22/2022



M. Brix

4 weeks



No problems
2 weeks more in cast

6-weeks



- no pain
- no sign of infection
- cast removed
- no restrictions
- No more visits

9 months



- pain
- Difficulty in rotation

Re-operation



- Radius was healed, plate removed
- Ulna with non-union, resection 1,5 cm
- Autograft structural and plate with compression
- Cast for 8 days

6-ugers kontrol after reoperation



- is very well and painfree
- uses arm to all activities
- obj. Normal ROM.

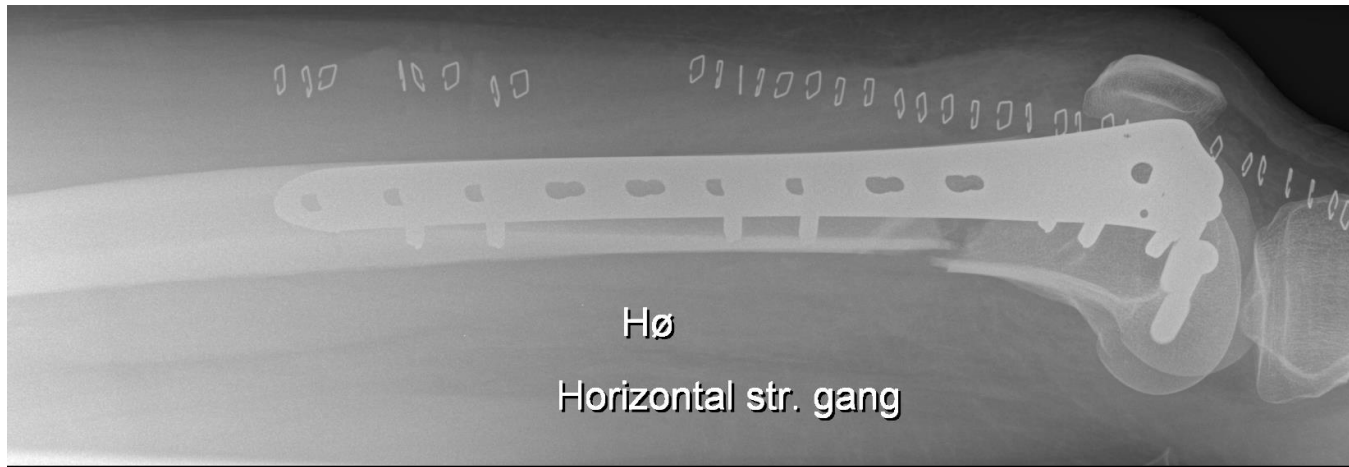
6 months . Healed with normal function



April 2015, 45 Y/O woman, soft tissue intact



Post op x-rays



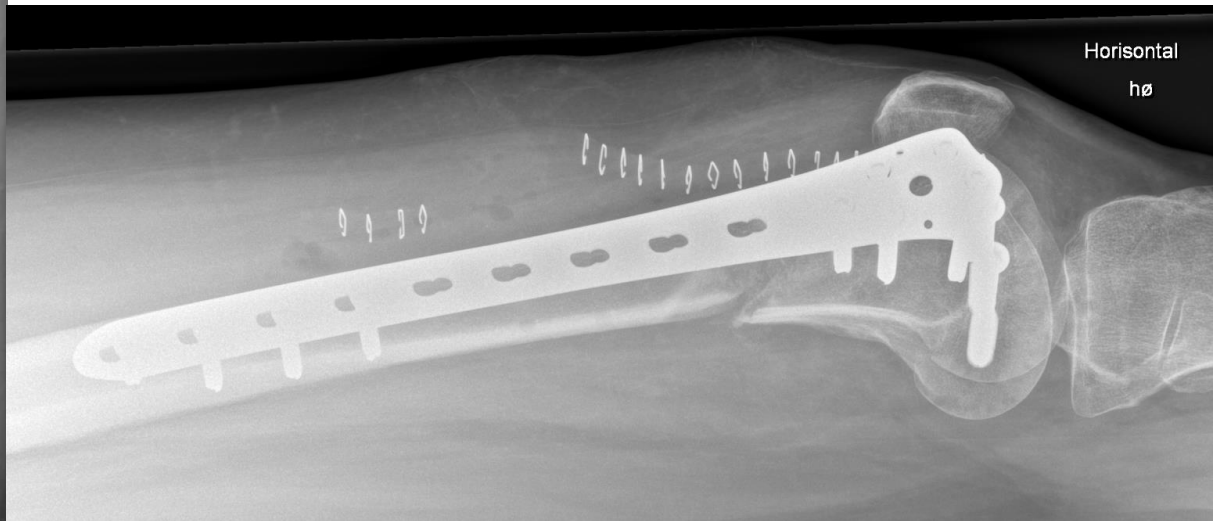
Violations of principles 2

Oct. 2015 (6 months)



Dynamisation of the plate and autograft from IC

Oct 2015



January 2016 (4 months)



Difference?

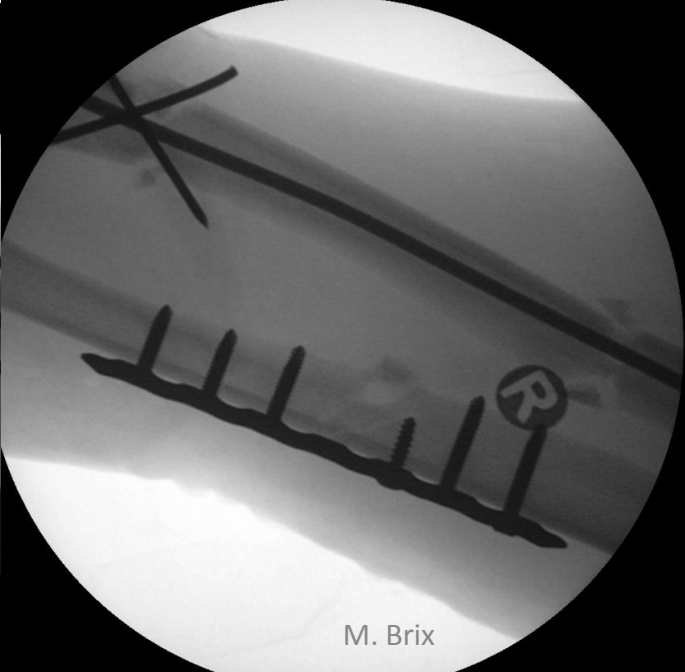
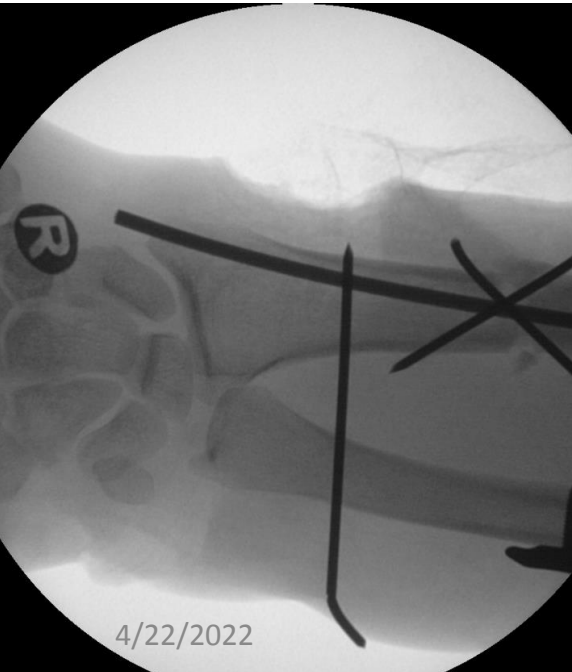
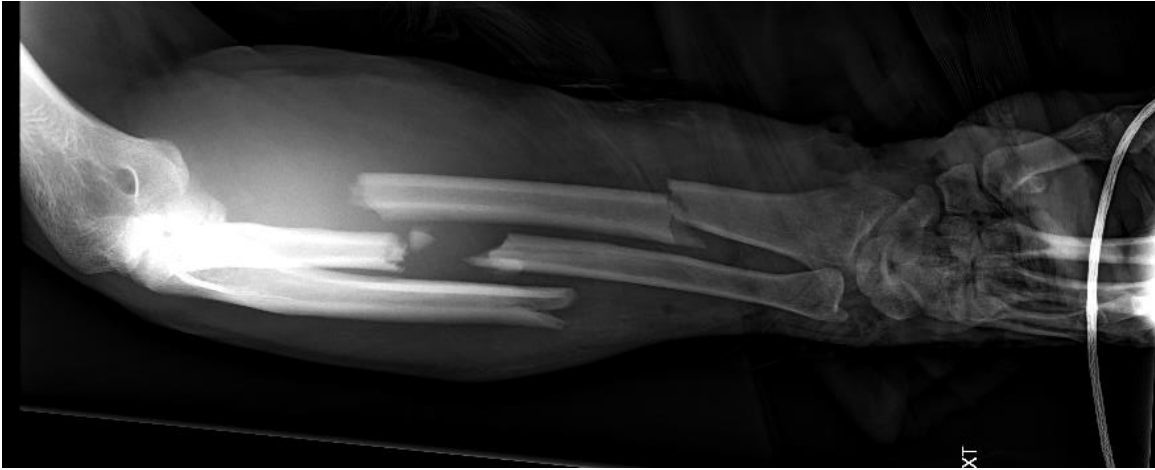


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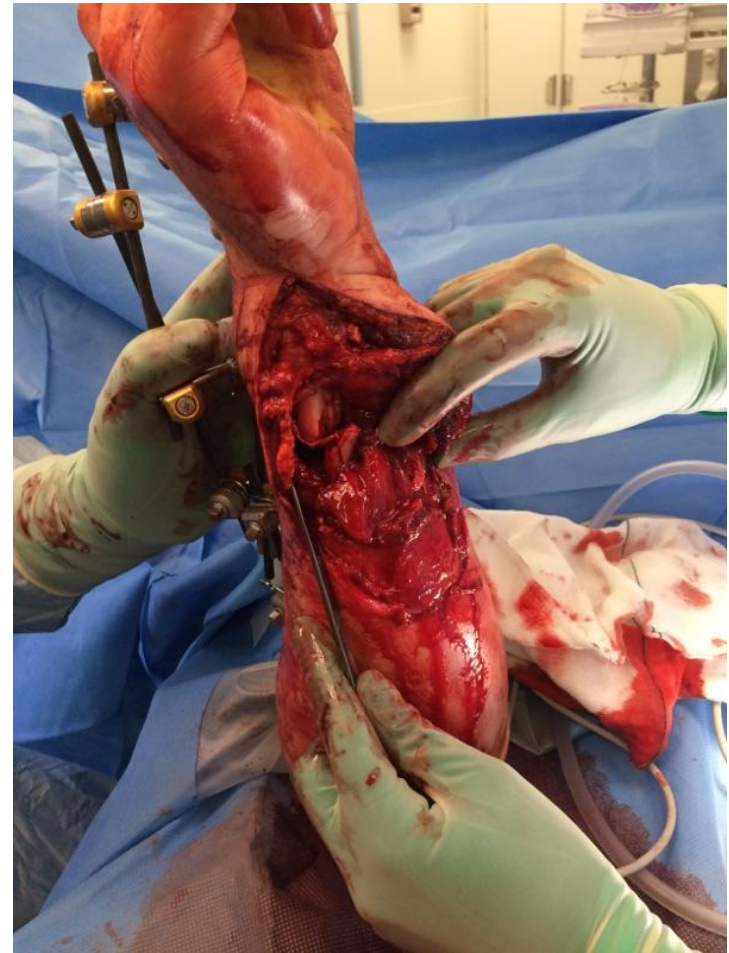
M. Brix

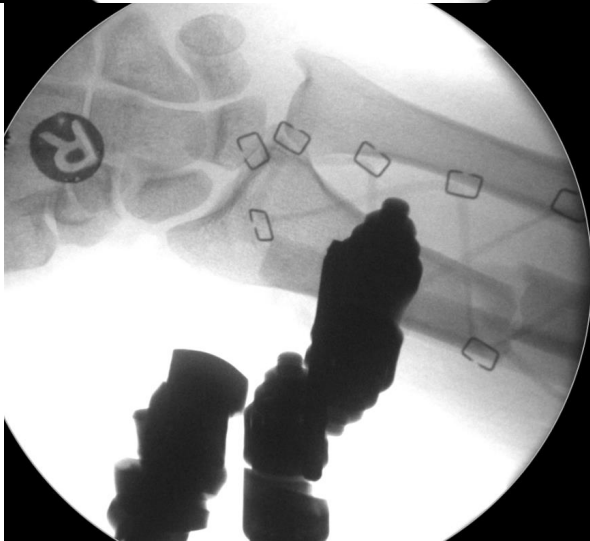
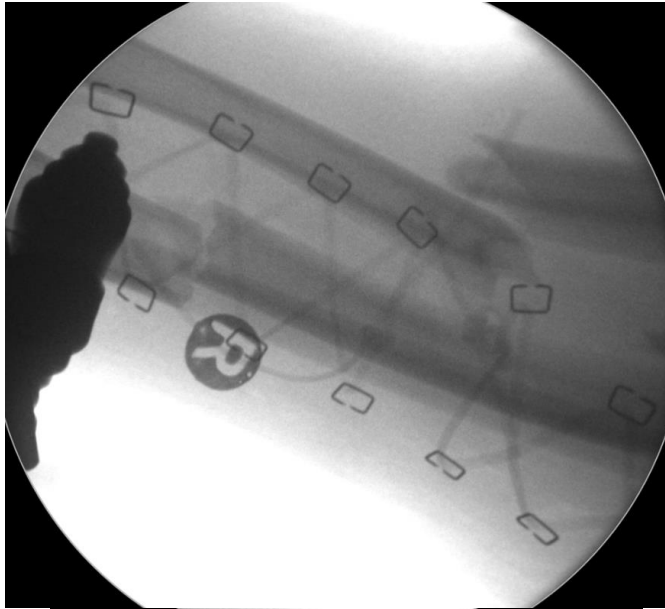
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Massive Violation of principles??



August 2014






Soft tissue decides strategy



April 2015



Simpel strategy

- The indication
 - The choice of implant
 - The principle of fixation
- 
- Should always match
 - Awereness of soft tissue
- Principles of soft tissue handling
 - More important than
 - Principles in fracture management