

AO-2025 Violation of principles

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

- Principles in fracture management
- Principles of soft tissue handling

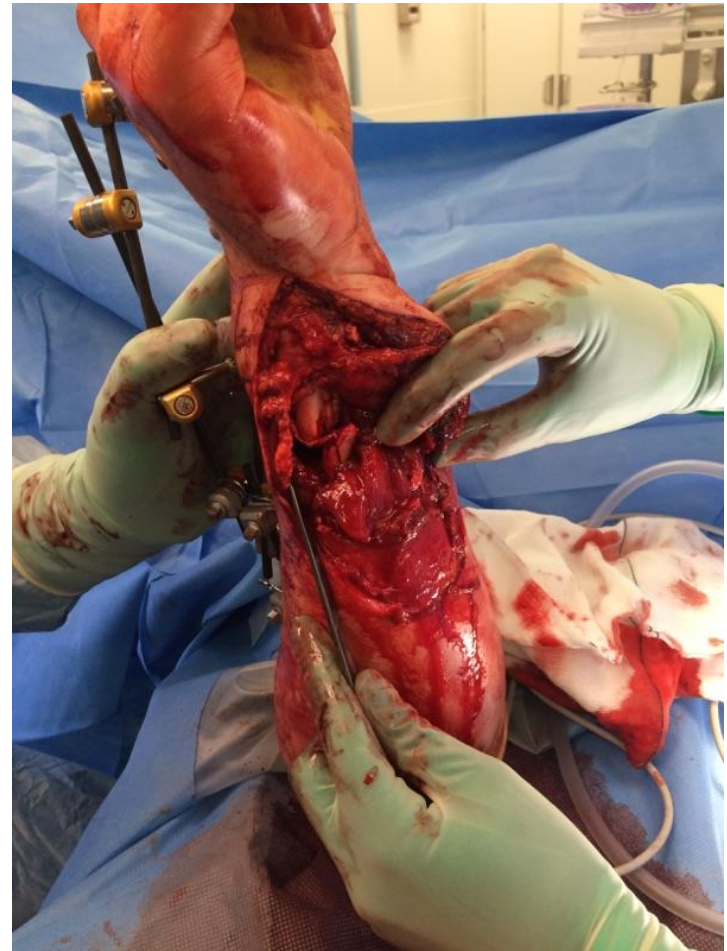


Learning objectives

-
- 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

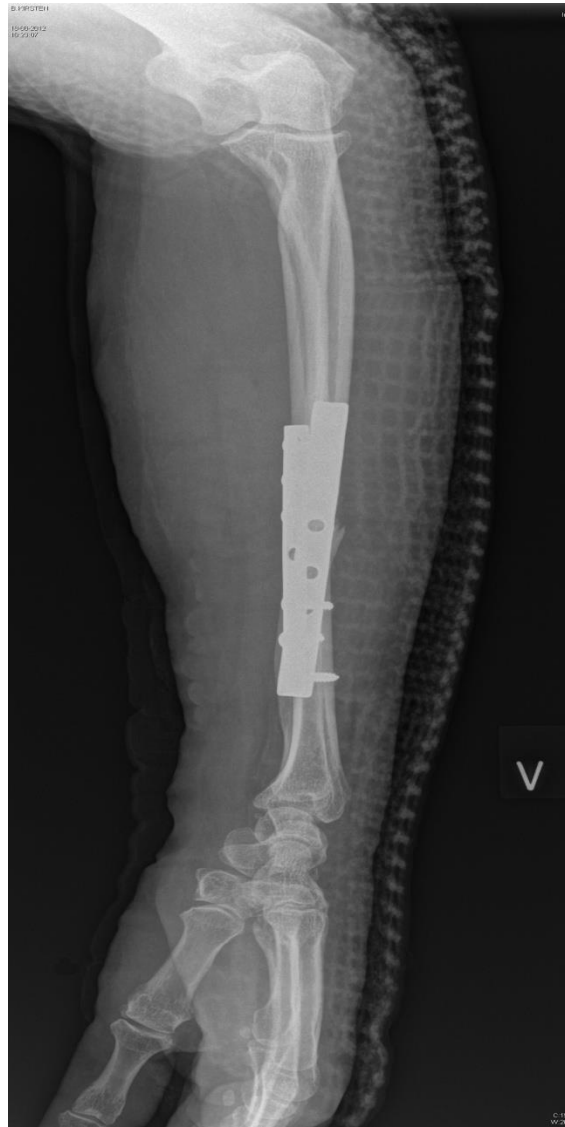
65 Y/O woman, healthy, soft tissue ok.



Post-op x-rays



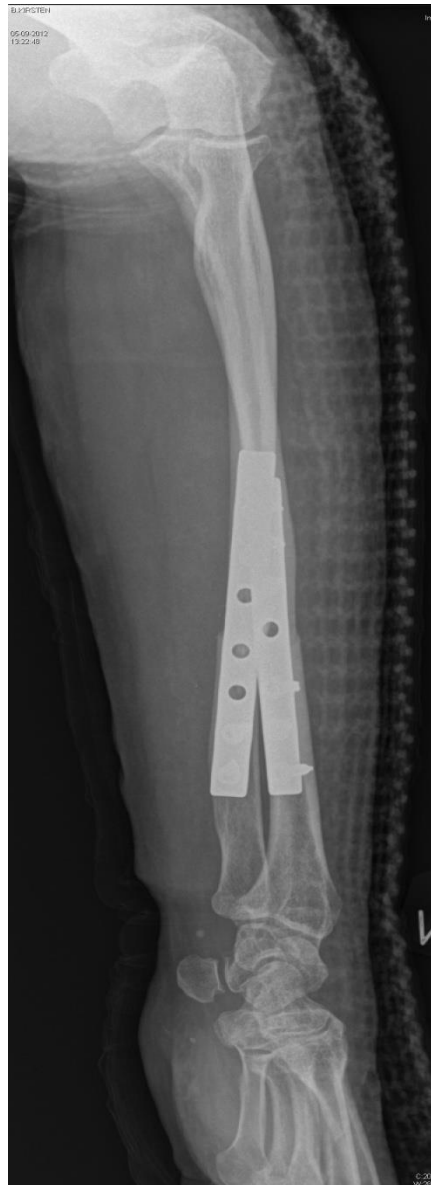
5/22/2025



M. Brix

What is the problem?

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
- Wrong implant
- Not stable enough

Re-operation



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

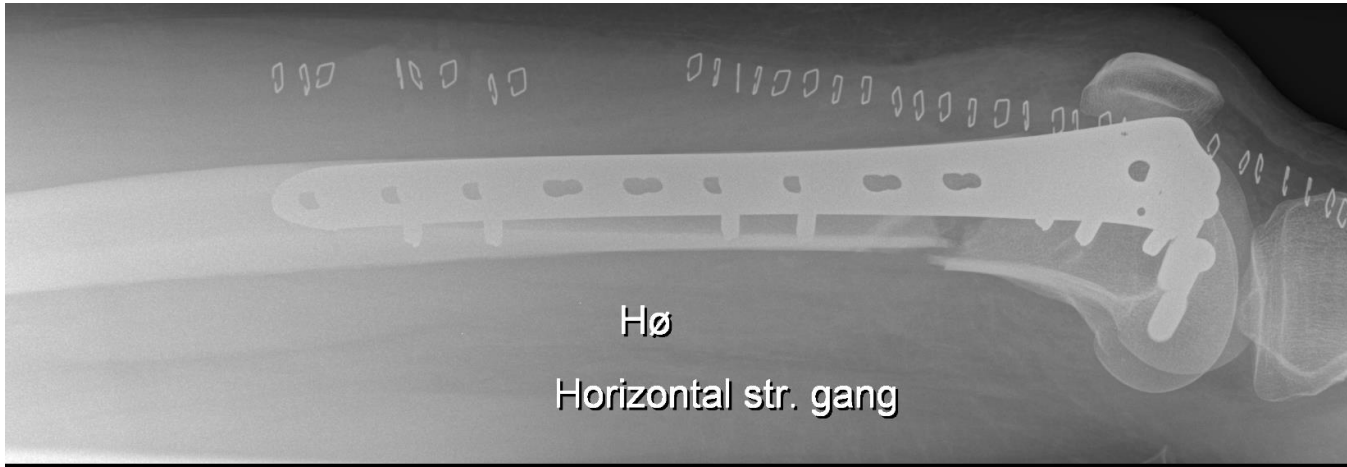
6 months . Healed with normal
function



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



Post op x-rays



What is the problem?



Violations of principles 2

Oct. 2015 (6 months)

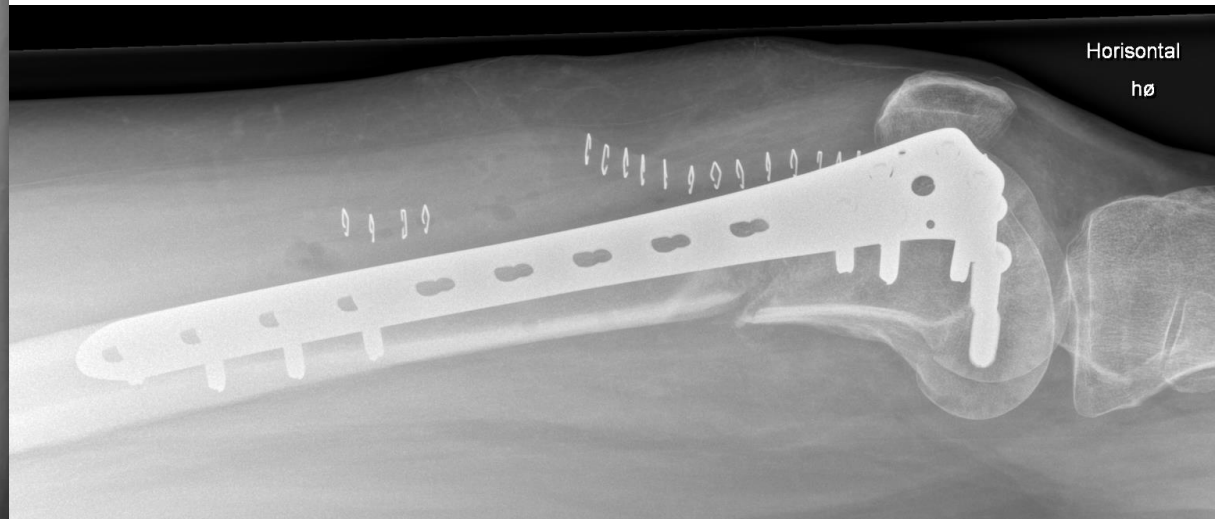


Pain
No healing

Wrong princip
Too stiff

Dynamisation of the plate and autograft from IC

Oct 2015



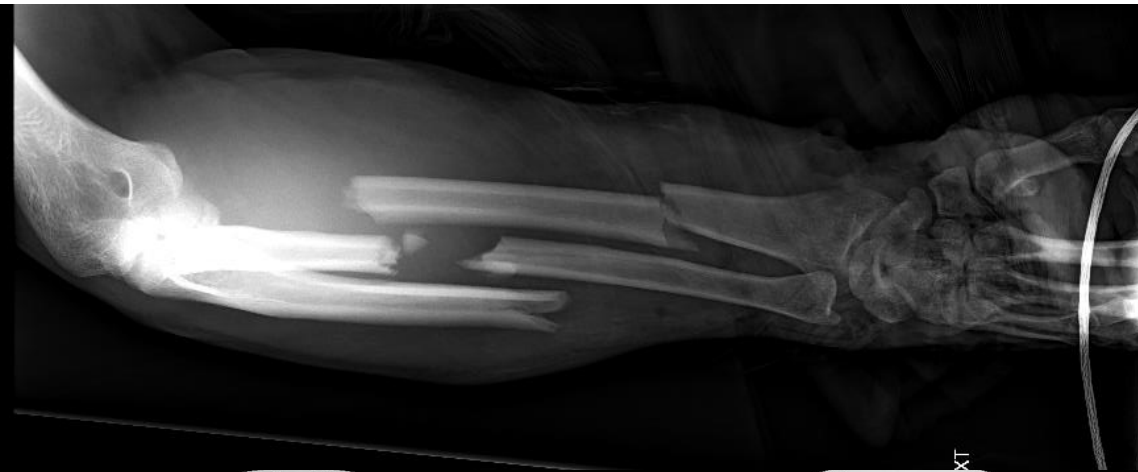
January 2016 (4 months)



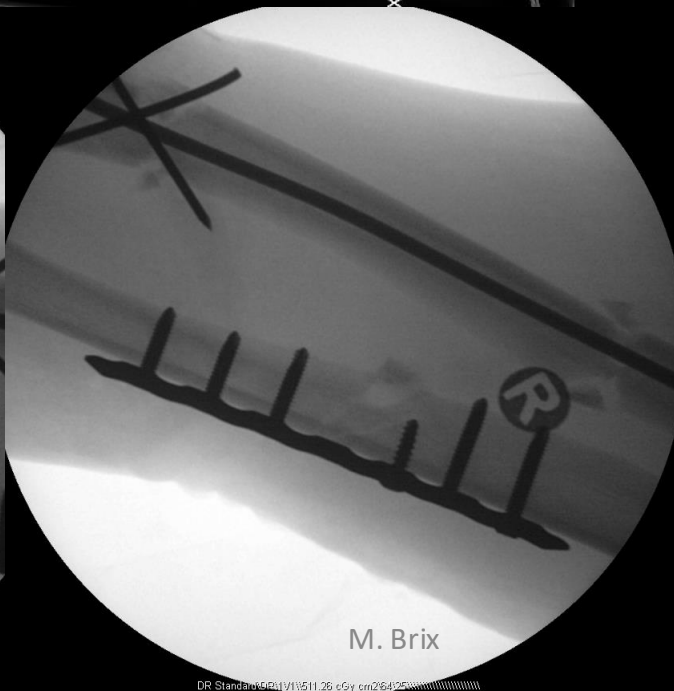
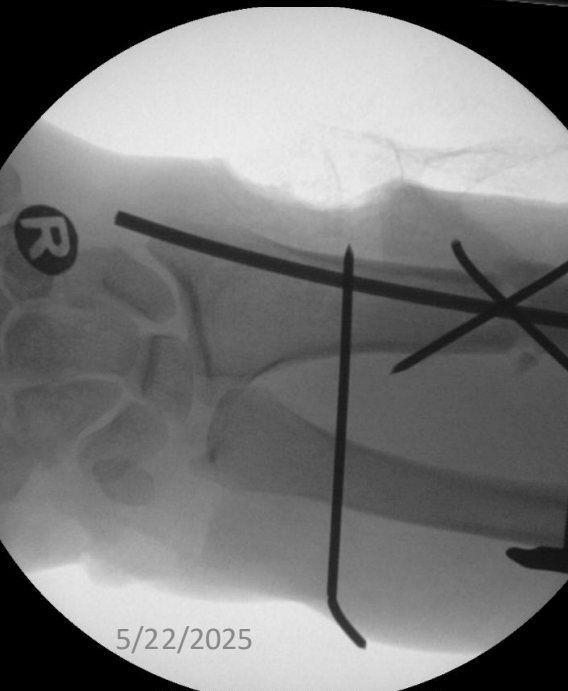
Difference?



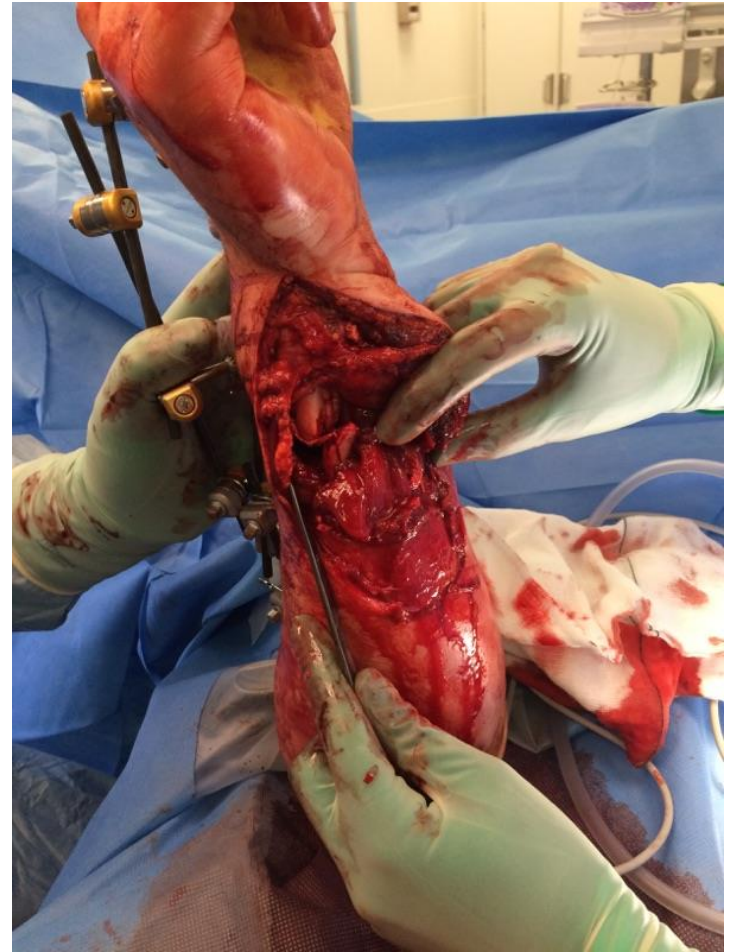
Massive Violation of principles??

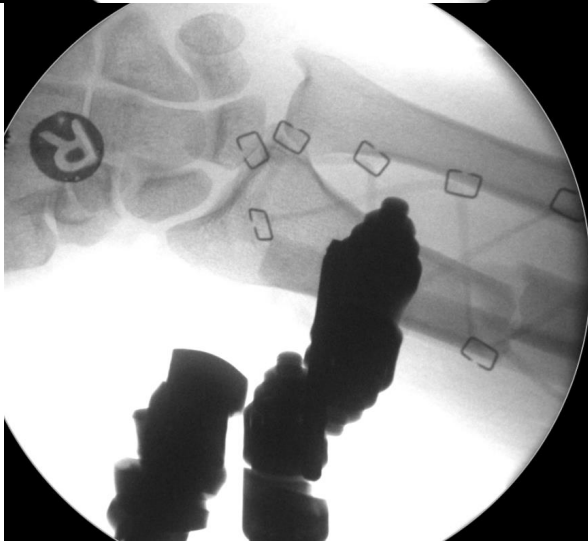
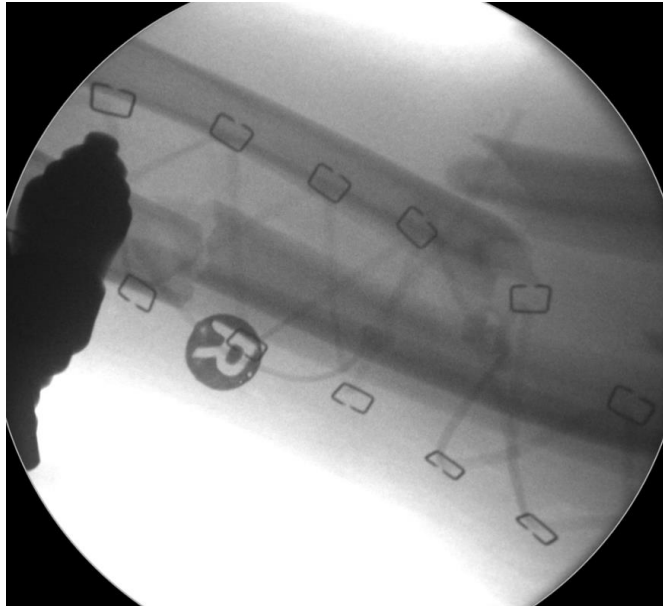


What is the problem?
What will you expect?



August 2014





Soft tissue decides strategy



April 2015



Expectations?

Hope for soft tissue healing

Hope for no infection

Expect one or two non unions

I just got lucky with the bone healing

Inspite of violation of the bone principles

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