

San Francisco Trauma Course 2024

Distal Femur Fractures Case Based Approaches

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No conflict of interest ...

Objectives

- limit invasivity but give +++ visibility & access
- simple algorithm
- all fracture types

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Approaches to the distal Femur ... which one to take ?

... depends on articular involvement

Q1: needs articular repair?

- 1. rebuild the articular surface
- 2. implant placement
- 3. implant fixation

no articular repair

- 1. rebuild the articular surface
- 2. implant placement
- 3. implant fixation

Q2: which condyle?

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Approaches to the distal Femur

1. Direct lateral approach [A1-3]
2. Lateral parapatellar approach (TARPO) [B1-3, C1-3]
3. Medial parapatellar approach [medial B2 type]
4. Swash Buckler approach [B1-3, C1-3]
5. Medial approach [medial B2 type]
6. Tuberositas Osteotomy [B1-3, C1-3]

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Lateral parapatellar Approach

keypoints

- lateral parapatellar arthrotomy
- tendinous part
- far proximal enough

TARPO Transarticular Approach & Retrograde Plate-Osteosynthesis

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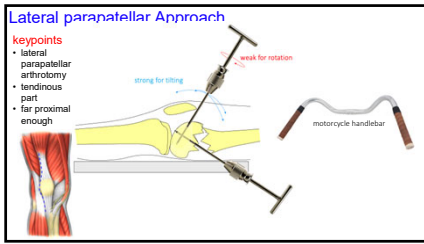
Lateral parapatellar Approach

keypoints

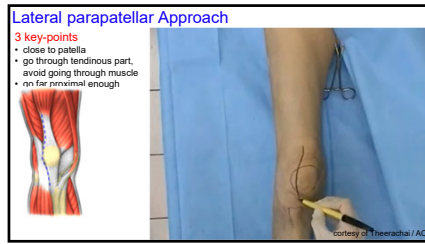
- lateral parapatellar arthrotomy
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2 Schanz-screw-Handlebar Technique

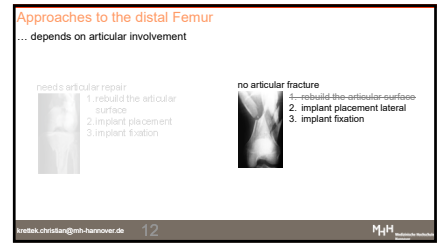
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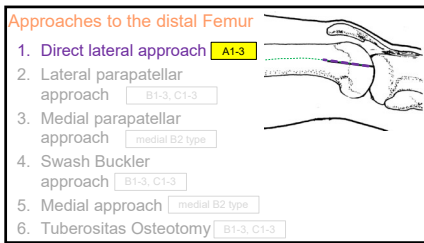
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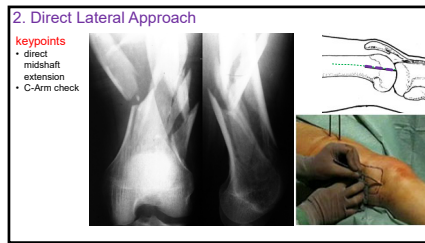
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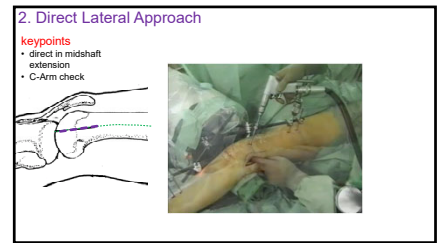
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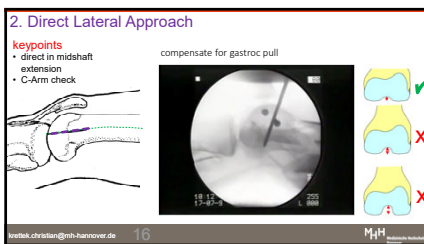
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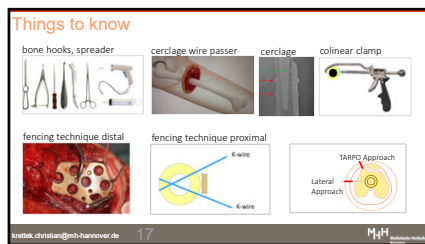
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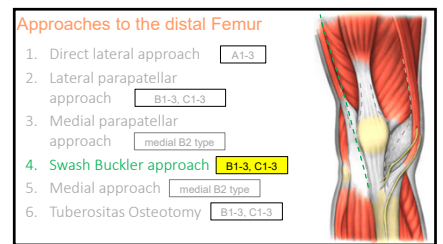
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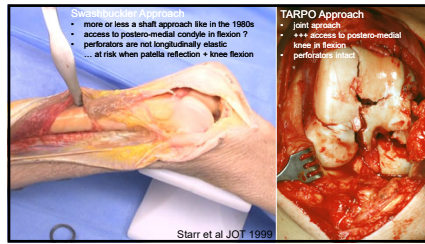
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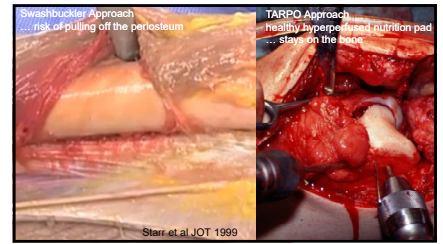
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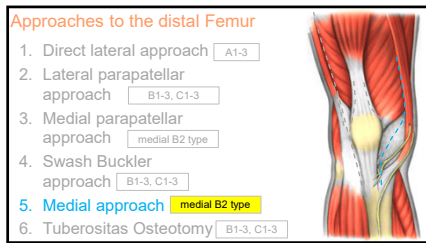
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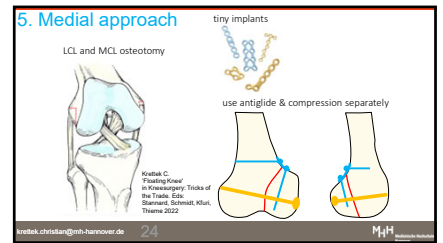
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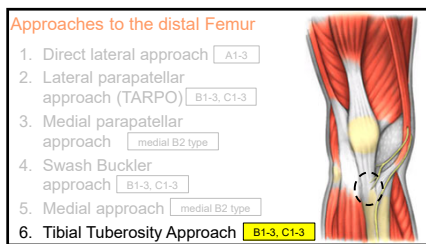
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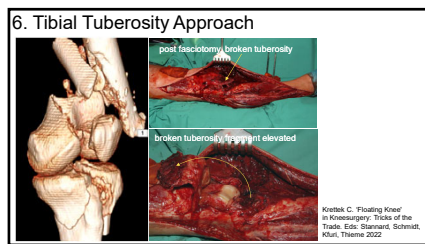
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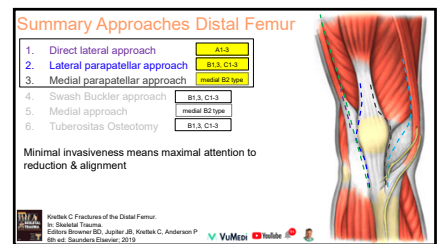
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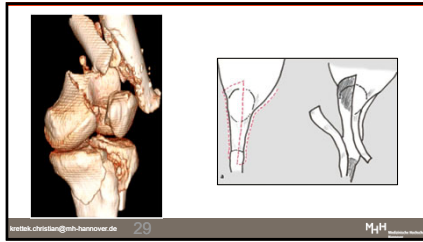
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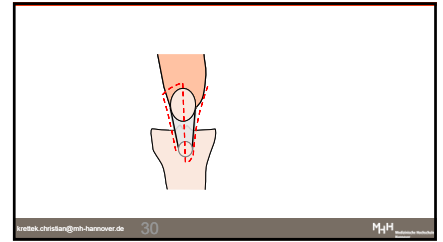
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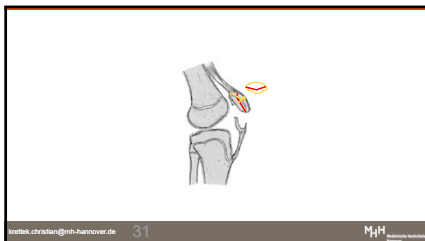
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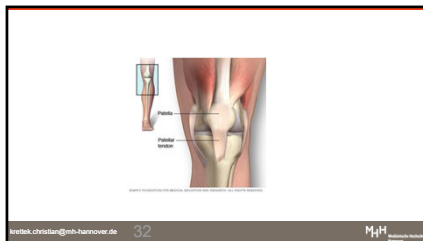
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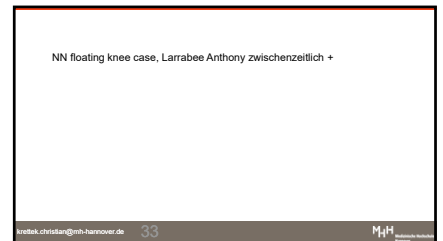
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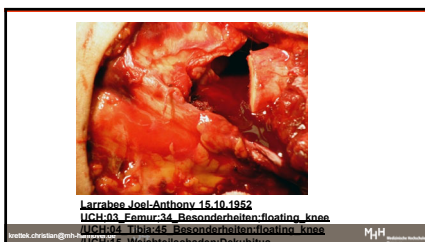
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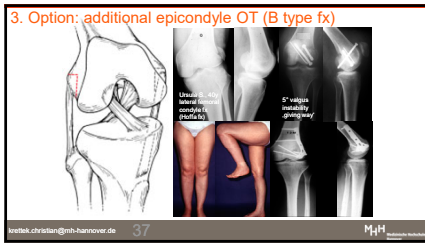


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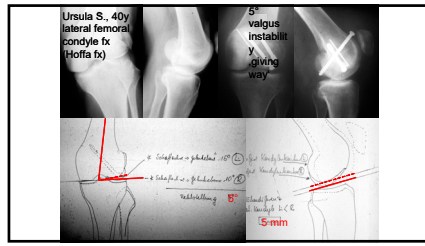
Summary Fragment Specific Fixation

- Preop alignment analysis contralateral side ... workshop (length, rotation, hyperextension)
- Approaches: different for extra- & intraarticular fx option: epicondyle osteotomy
- Reduction tools (distractor, joystick, spreader, Listractor, colinear clamp, cerclage wire passer)
- Fixation concepts
 - Miniplates
 - Fencing w K-wire cage
 - Cerclage-locking screw combination

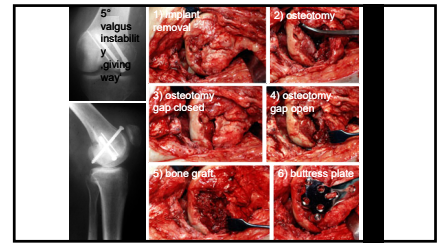
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