



### Unicompartmental OA & Ligament Deficiency



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### ACLD + OA

- Early kinematic deficit is lateral
  - If MM remains intact lateral OA possible
- With MM failure kinematic deficit is medial → posteromedial OA



### ACLD + OA

- What to do?


Choice:

- ACLR alone
- Osteotomy
- Arthroplasty [UKR or TKR]

If osteotomy / UKR then: ? Add ACLR

### OA & HTO

- OW or CW?
- For ACL intact - OW
- For ACLD OA - CW




### O.W. H.T.O.

- Likely ↑ tibial slope



### C.W.H.T.O.

↓ slope helps:

- offloads ACL
- helps fixed flexion
- ACLD pattern OA

so  
CW HTO ideal




### C.W.H.T.O.

↓ slope helps:

- offloads ACL
- FFD
- ACLD pattern OA

so  
CW HTO ideal



### C.W. H.T.O.

Choose fixation to allow ACLR



### Results:

**HTO + ACLR:**  
Good but no comparison with HTO alone  
(Bonnin et al, Lyon; Imhoff et al, Munich)

**HTO alone** – Good results: Pinczewski- Sydney

### UKR and ACLD

ACLD – contra-indication for UKR? *Oxford CORR '92*

- for mobile bearing
- ? For fixed bearing



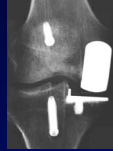
### UKR and ACLD

UKR + ACLR *Oxford JBJSBJ 2006*

Oxford- 15 cases @ minimum 2.5 years  
slightly better than  
age-matched ACL intact!

Few other publications

Fixed Bearing UKR alone- ?



### UKR and ACLD

Surgical 'Top Tips'

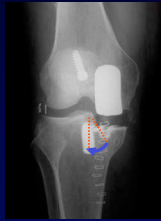
- Vertical tibial tunnel



### UKR and ACLD

Surgical 'Top Tips'

- Vertical tibial tunnel



### UKR and ACLD

Surgical 'Top Tips'

- Fix graft  
before  
starting UKR



### Medial OA + Posterolateral laxity

Lateral CW for access to PLC



### Medial OA + Posterolateral laxity

Lateral CW for access to PLC



### Medial OA + Posterolateral laxity

OW seems to control excess rotation as well as varus



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OW seems to control excess rotation as well as varus



