

# Unicondylar Knee Revisions

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# Uni Revision Series

- 209 Uni's since 2003
- Full data on 122
- 10 revisions of 209 (Rate 5%)
  - 2 persistent pain (Sjorgens Syndrome)
  - 3 increased pain
  - 2 fracture
  - 1 loose tibia
  - 2 infection (1 definite, 1 probable)

# Reasons for Revision

- **2 cases of Sjorgens**
- Undiagnosed preoperatively
- Diagnosis made postop after ongoing knee pain and multi-joint pain
- Revision to TKR

# Reasons 2

- **2 Fractures**
- Both small femur and tibia
- Both size 6 ie. large inserts
- Keel cut close to medial cortex – thus less support and stress riser

# Fracture





# Reasons 3

- **3 Painful**
- 2 size 6 insert. No specific cause identified
- 1 size 4 insert
  - Developed porotic area beneath very small tibia

# Reasons 4

- **2 infection**, 1 definite, 1 probable
  - Both size 3 insert
  - 1 technically poor
  - ?limited space > technically more difficult > increase infection risk
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- **1 Loose Tibia**
  - Size 3
  - Limited space > poor cementation

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# Reasons for Revision - Summary

Size Insert	Reason revision	Comment
6	#	Small tibia and femur
6	#	Small tibia and femur
6	Pain	
6	Pain	
4	Pain	Small tibia with tibial porosis
3	Loose tibia	Poor cementation
3	Infection	
3	Probable infection	Technically poor

# Revision by Insert Size

Size Insert	Number Revised/Total	% Revision
3	3/31	10%
4	1/44	2%
5	0/28	0%
6	4/11	36%
7	0/5	0
8	0/1	0
9	0/2	0

- Size 3 v 6  $p=0.005$
- Size 4 v 6  $p=0.001$
- Size 5 v 6  $p=0.002$

# Insert Size Conclusion

- Relative risk of revision with Size 6 compared to Size 3 is 5
- So in cases where considering deeper cut when measuring size 3 DO NOT cut more, rather use size 3.
- As the risk of early revision increases 5 fold!

# Revision by Surgeon Grade

- Registrar did 32/122 (26%)
- Reg revisions 2/8 (25%)
  
- Grade not related to revision

# Messages

1. Exclude inflammatory arthropathy
2. If measuring size 3 after initial cut Go with this – recutting to size 6 increases chance of revision (5x in our series)
3. Size 6 insert increases chance of revision from pain or fracture
4. Registrar cases no more likely to need revision!



Thank You