DEBATE: RESURFACING OF PATELLA IN TKA



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What does the literature show

No comparative studies found

No Registry data

What do the implant companies provide

Attune, PFC – Resurface

- Persona, Next Gen Resurface
- Vanguard Resurface
- Tornier Resurface

Triathlon – Both. No NZ surgeons inlay

Gen II, Legion – Both – One NZ surgeon inlay

Literature review of Patella Implants



Advantages of Resurfacing

Technically easier

Accurately measure resection level

 Accurately ensure there is a consistent resection level

 Vary patella shape – simple dome, medial offset, anatomic

Disadvantages of inlay

Technically more difficult

 Difficult to determine correct depth – proud or sunken implant

Difficult to create a flat recess – tilt the implant

Once reamed you can't change the position

Patellofemoral Load

- Up to 20X body weight
- Inlay patella is smaller 9mm Smith & Nephew smaller contact area
- Higher contact forces
- Increased failure rate??

Summary

- Resurfacing the patella is technically easier and more reproducible
- Bigger implant less contact stresses
- By far the most commonly performed
- Only pushed by S&N Gen II which is 20 years old "Inlay is the resurfacing you do when you don't want to do resurfacing".