

MOM Total Hip Replacement

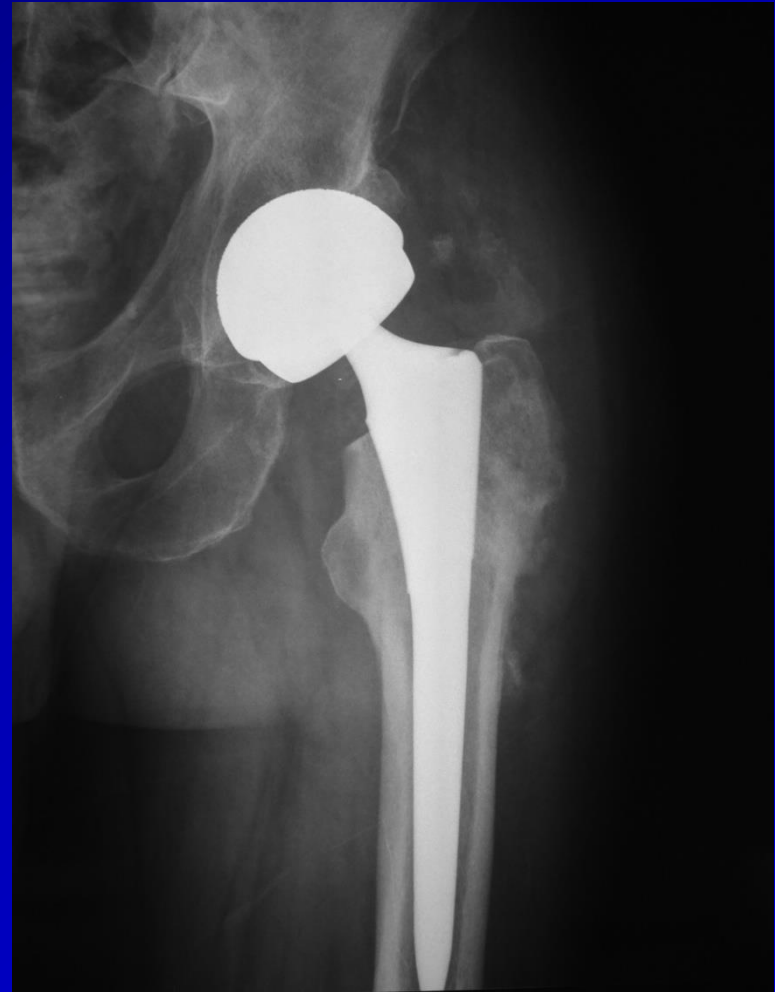
- Very popular 5 years ago
- Big head, less dislocation
- Small neck, great ROM
- Turned out to be a disaster

MoM THR vs Resurfacing

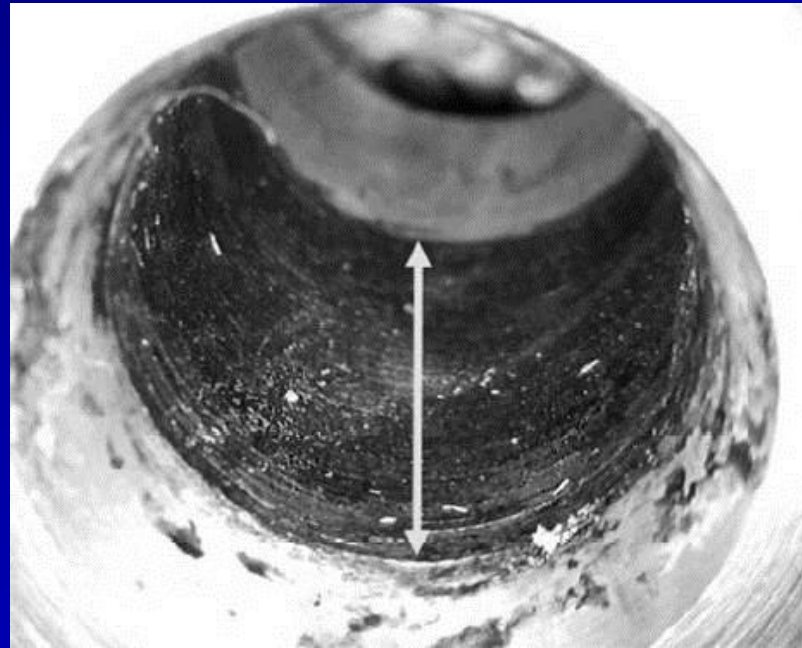
- I do not recommend MoM THR
- Highest failure rate of any bearing
- ***Opposite*** relation of failure rate to head size than resurfacing
- Why? It's the Morse taper!

Morse Tapers

- Fine for 28, 32
- 50+: Too much torque and moment for small diameter tapers
- Bigger head -> more wear



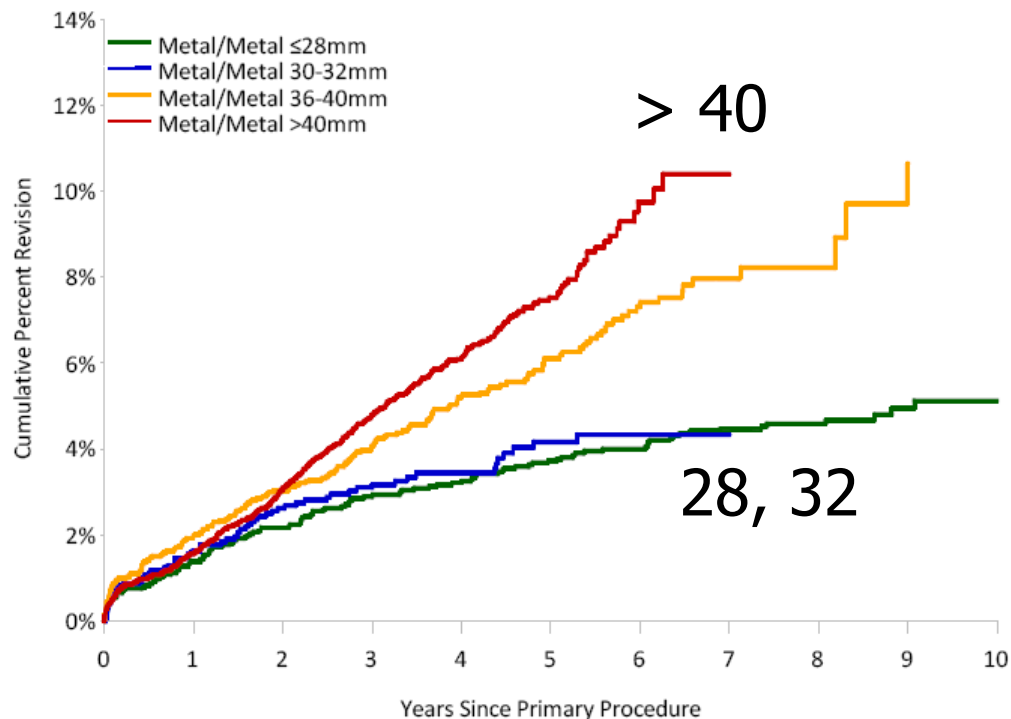
Taper Corrosion



More metal debris than the bearing itself !

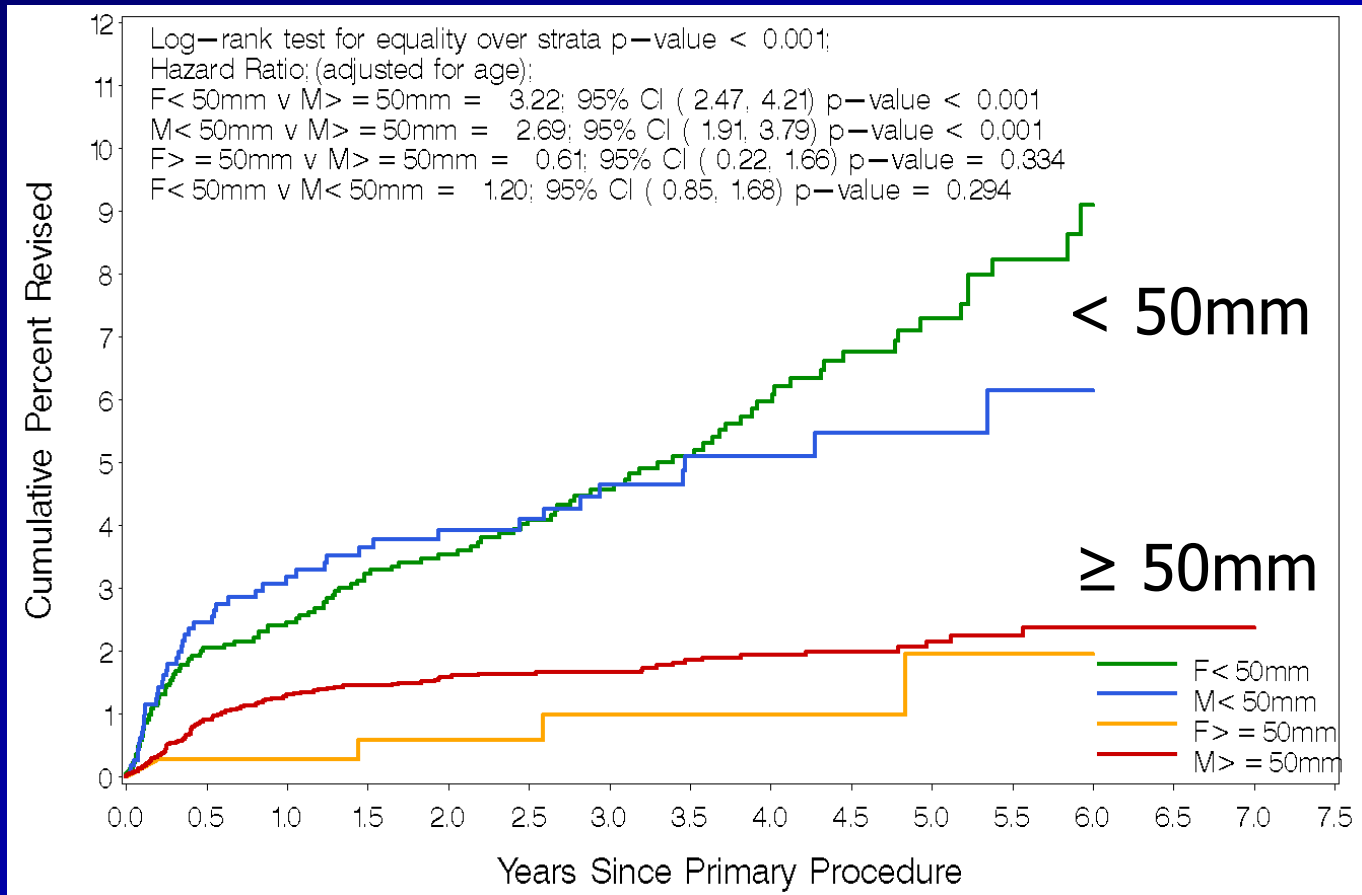
MoM THR Revision Rate vs Size

Figure HT22: Cumulative Percent Revision of Metal/Metal Primary Total Head Size (Primary Diagnosis OA)



Australian Registry

Resurfacing Revision Rate vs Size



Resurfacing vs MoM THR

- Bigger THR head size causes increased trunion torque, rocking
- Micromotion, fretting
- 10 X higher ion levels than resurfacing !
- But in resurfacing, bigger is better