Early results with the Polymotion hip resurfacing device

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Disclosures

- I declare that in the past three years I have:

- held shares in:
- received royalties from:

- done consulting work for: Stryker, Corin, Zimmer-Biomet, Jointmedica

- given paid presentations for:

- received institutional support from: Zimmer-Biomet, Smith & Nephew, Austofix, Depuy-Synthes

The Device

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Why Metal on Polyethylene?

- Poly – much closer to MoE of bone
- Thick Polyethylene – 6-8mm
- Modern Vit E Poly wear is low
- Won’t squeak
- No device fracture risk
- Nothing is too new!

The Data ….

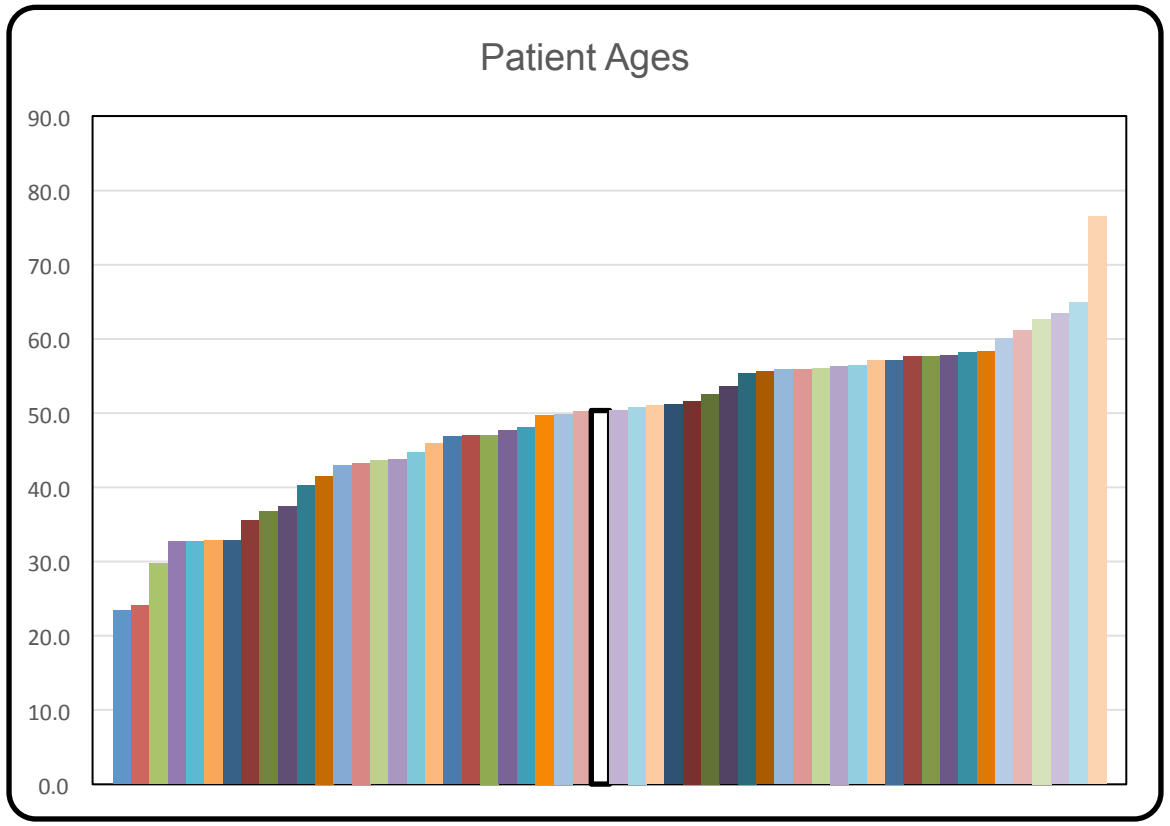
- Started Mid-2024, slowly!

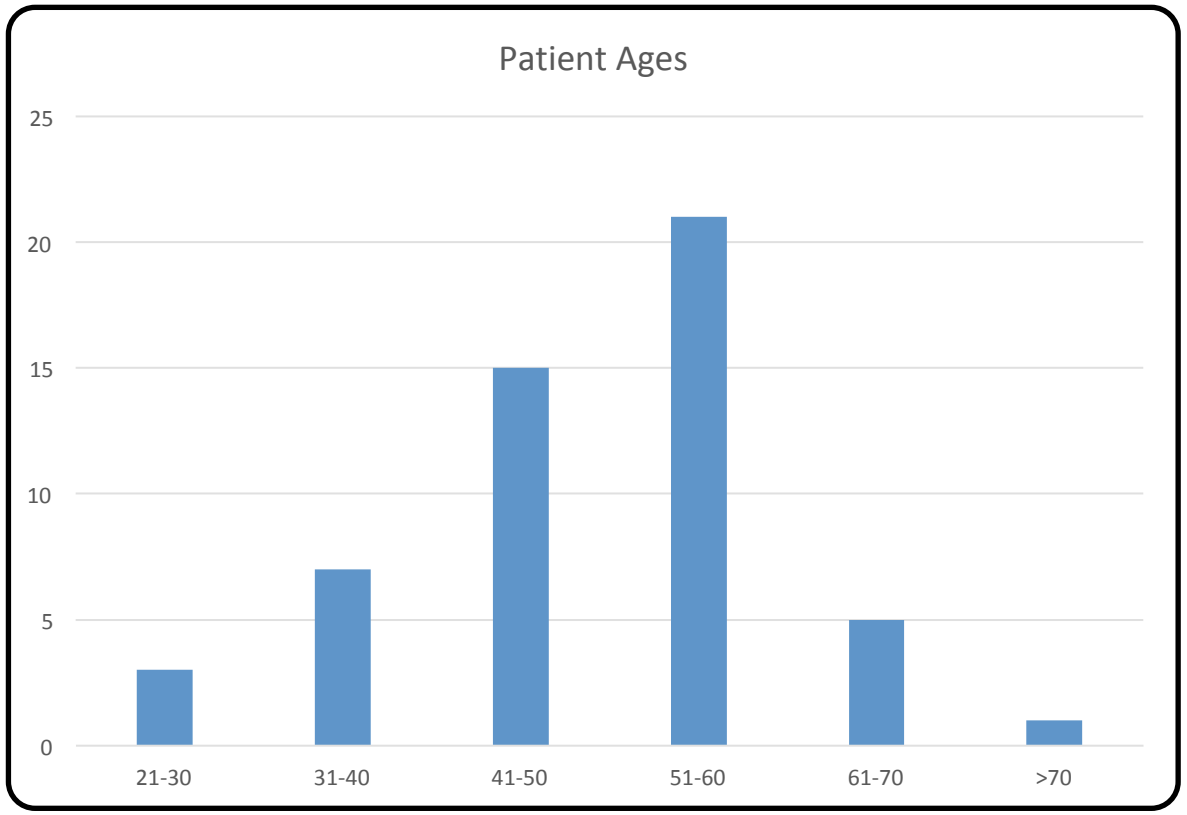
- Cases : 2024 – 9
  2025 – 29
  2026 – 16 so far ……. Total of 54

- First 23 all posterior, then 8 mixed, last 21 all DAA

Demographics :

- Age : Range 23-76, Median 50.3
- BMI : Range 18-43, Median 28
  - Median BMI for Posterior = 30, for DAA = 26


Patient Ages
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0


Patient Ages
25
20
15
10
5
0
21-30
31-40
41-50
51-60
61-70
>70

Pre-operative Oxford Hip Scores

- Group as a whole - Median 24, Range 14-37
- Posterior cases – Median 22, range 15-37
- Anterior cases – Median 25, Range 14-33

Post-operative Oxford Hip Scores

- Posterior : Median 47, range 36-48
- DAA : Median 46, range 35-48

Post-operative Change in Oxford Hip Scores

- Posterior : Mean improvement of 22.1 At mean of 18.8 months (minimum 8)

- DAA : Mean improvement of 18.5 At mean of 8.8 months (minimum 2)

Length of stay (days) :

	Range	Mean
Whole Group	2-6	3.54
Posterior Cases	2-6	3.88
DAA Cases	2-5	3.32

Complications

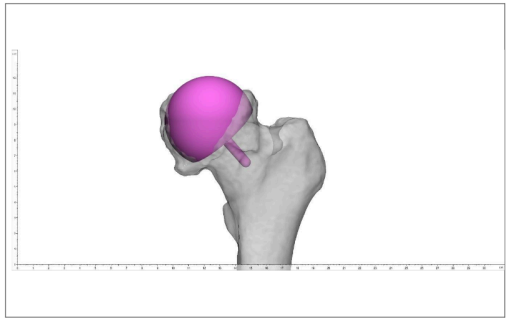
- One deep infection …. Bad patient choice
- One vascular worry on table …. 6 day stay, Post op score OHS 44 at 1 year
- One femoral neck fracture after a fall …. Cup retained and changed to a bipolar stem

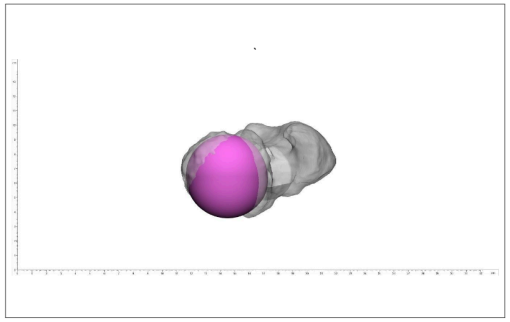
Change to DAA …. Learning points?

- It’s still hard, compared to a simple THR!
- All about the capsulotomy. Leg holder / table is invaluable
- PSI is a huge advantage – planning and execution
- The Polymotion cup is difficult to implant!

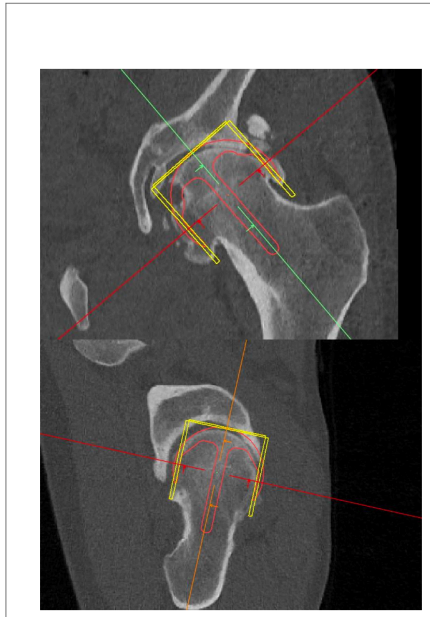
PSI Planning from CT

POLYMOTION IMPLANT SIZE 58



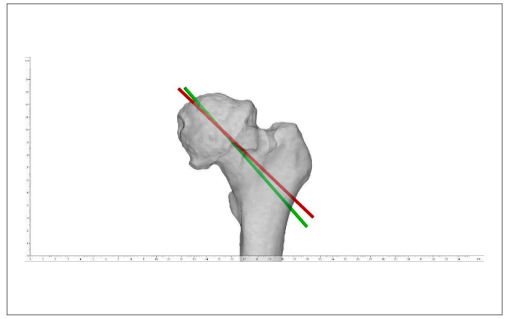


CT SCAN OVERLAY CORONAL VIEW – reamer and implant



INCLINATION ANGLE 139

PROPOSED IMPLANT AXIS (GREEN) / NATURAL IMPLANT AXIS (RED)



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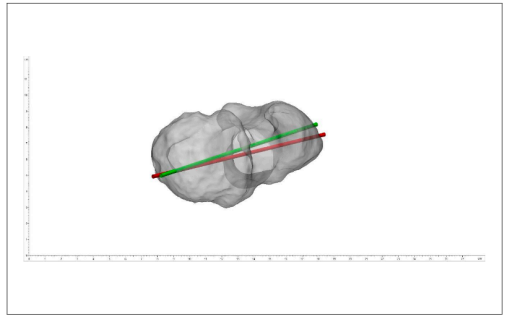
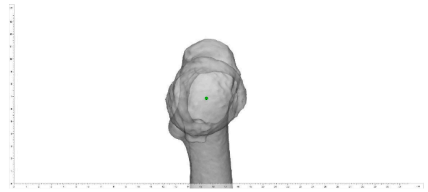
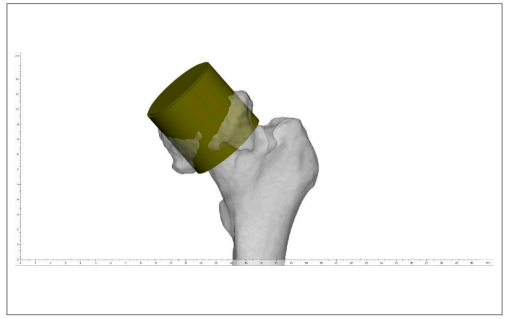




REAMER SIZE 58



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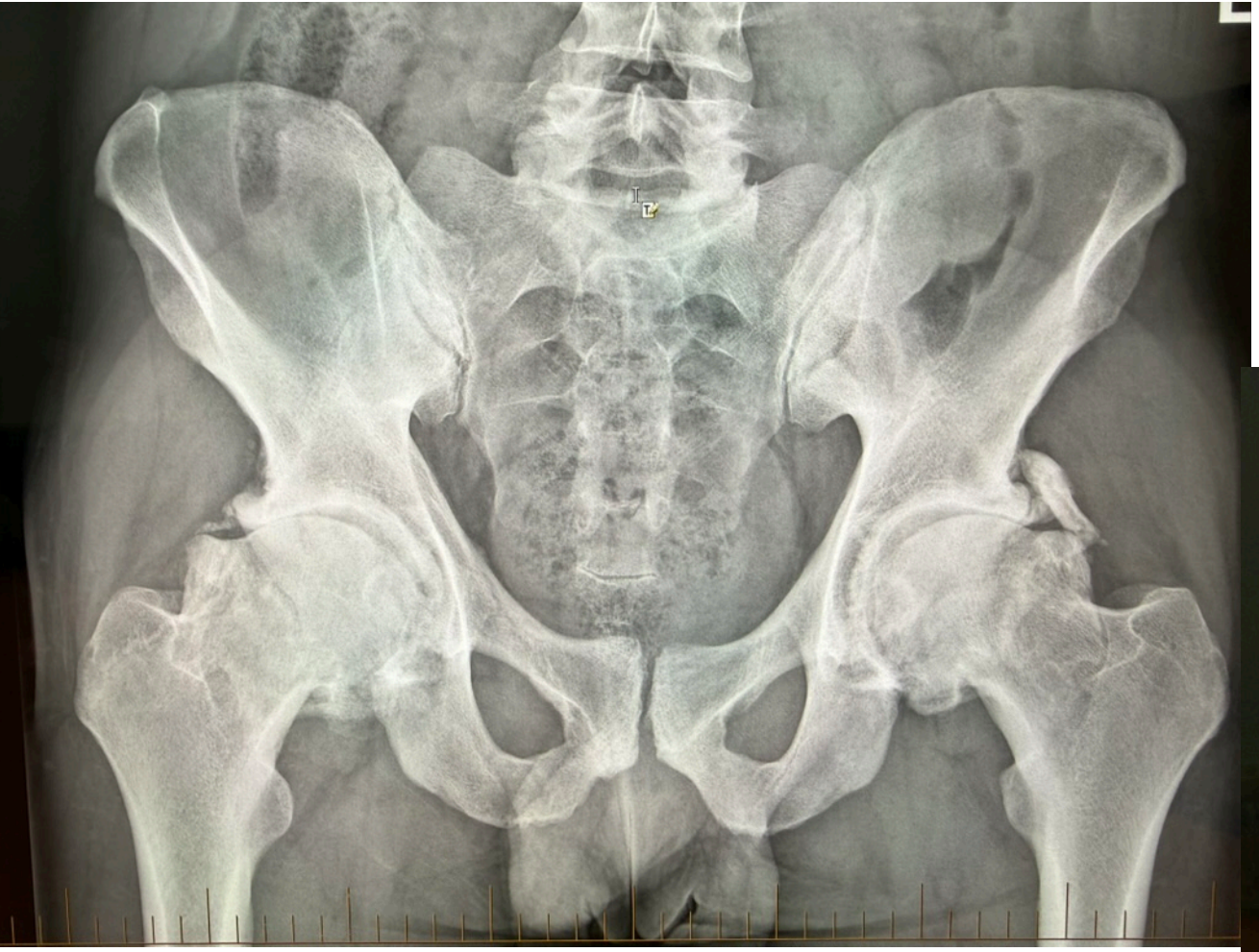

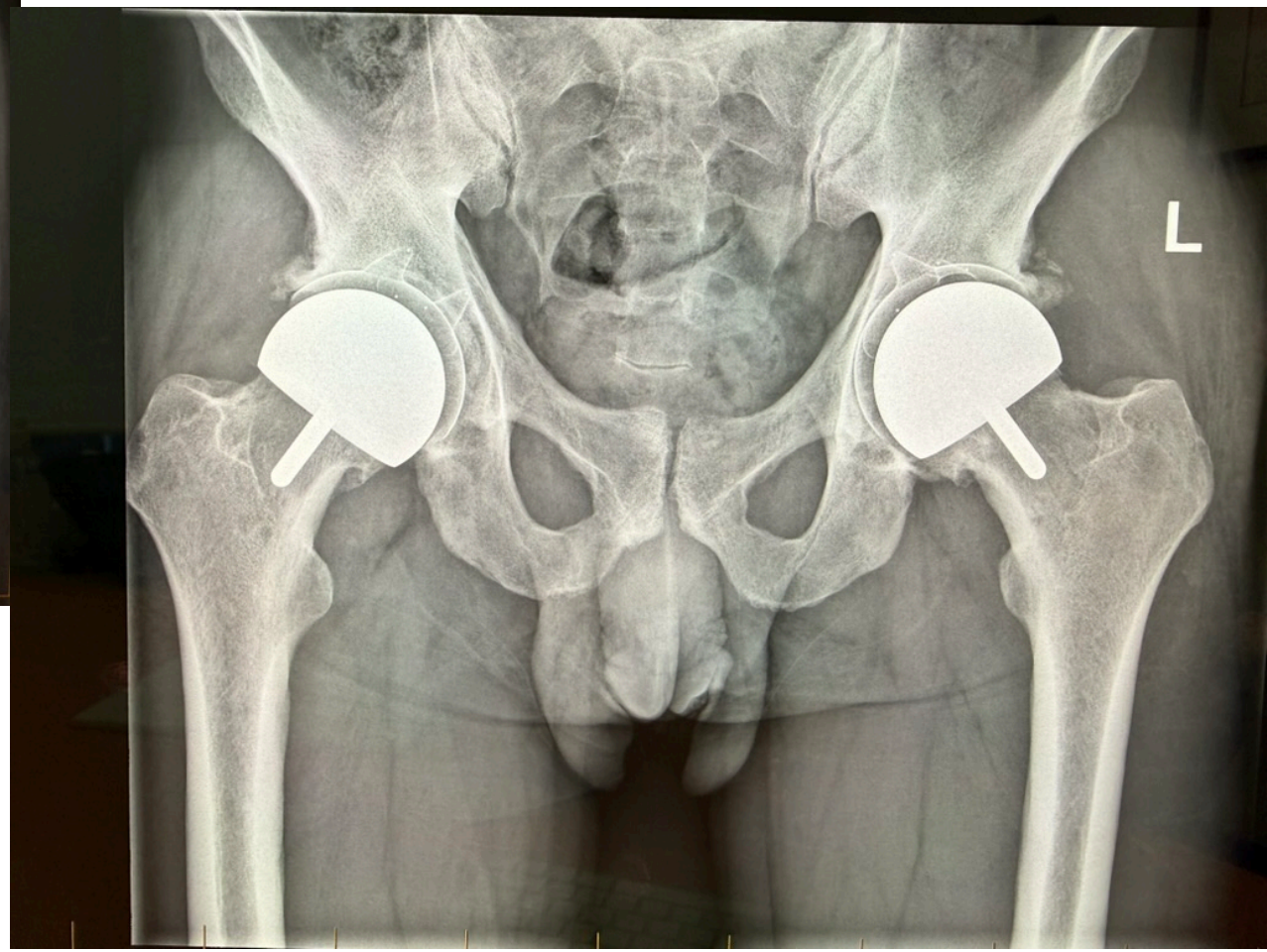
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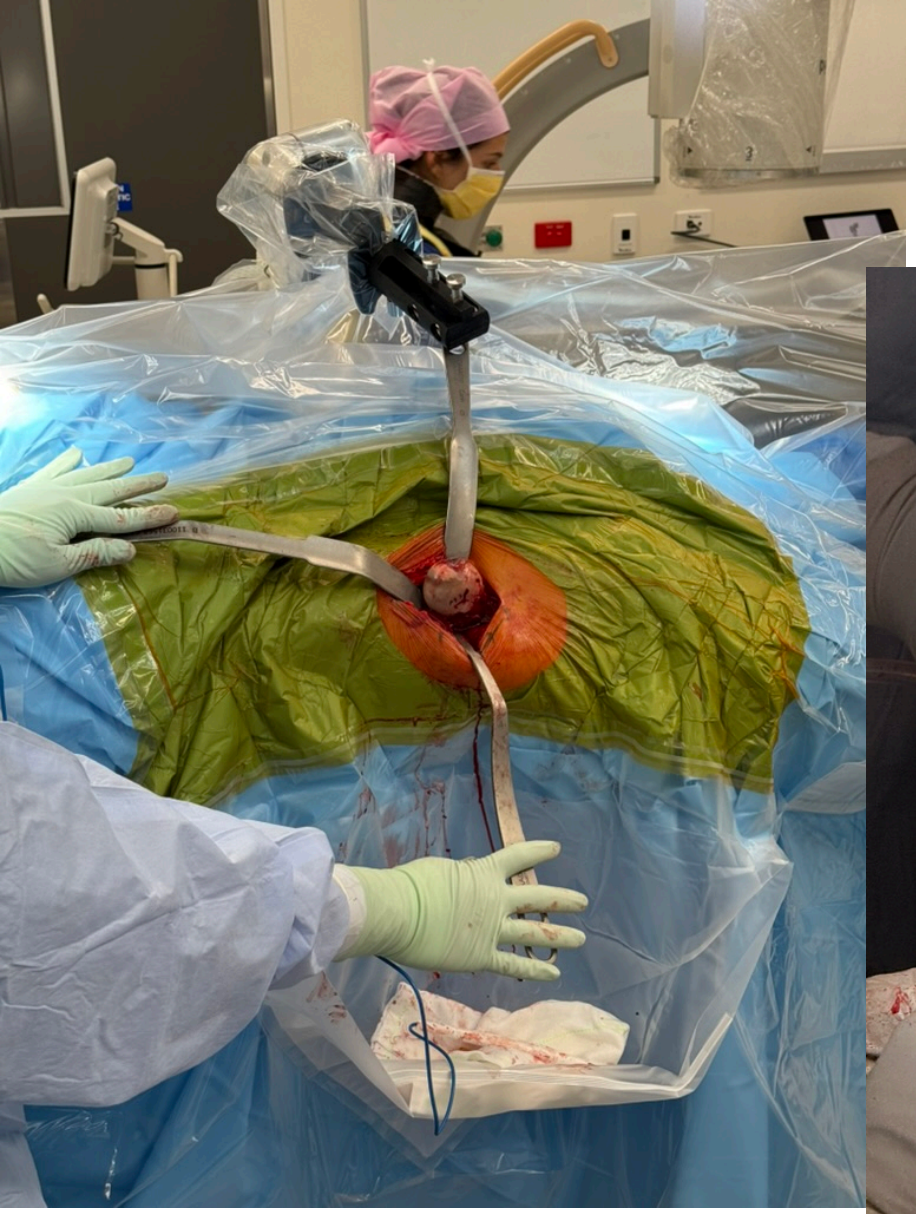

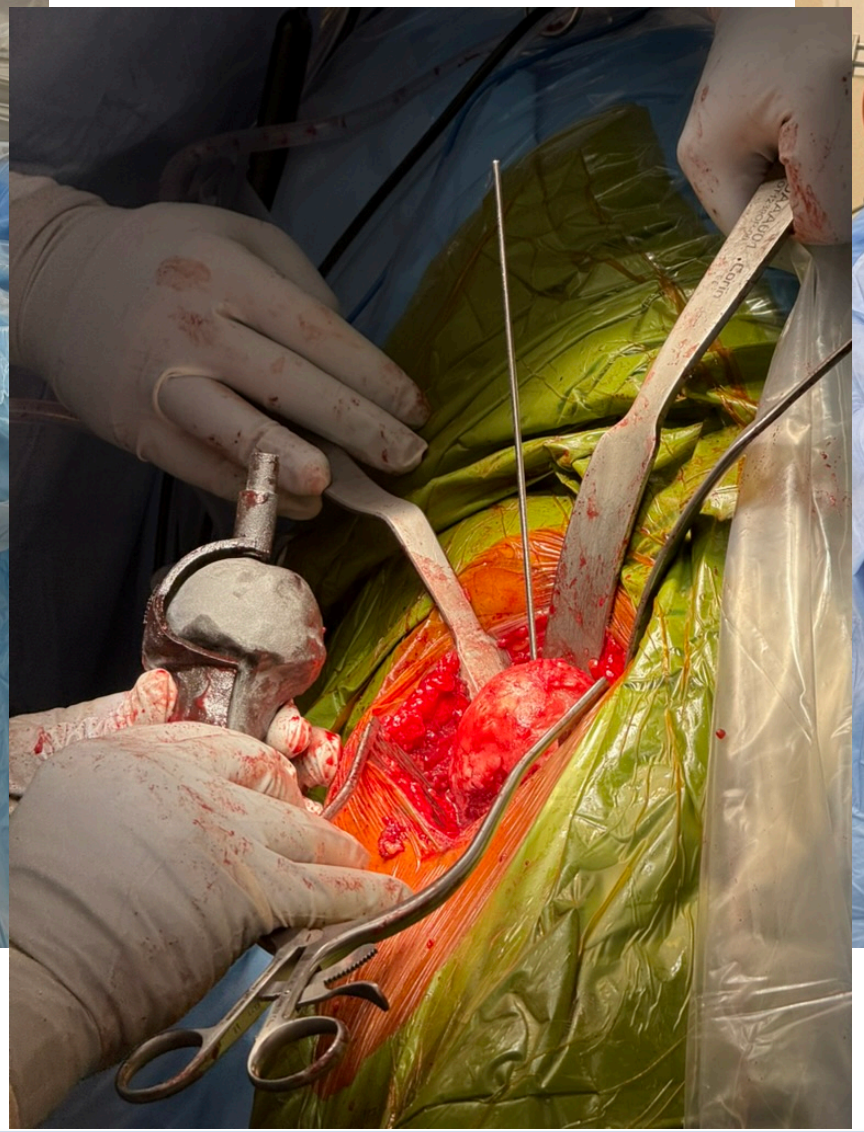

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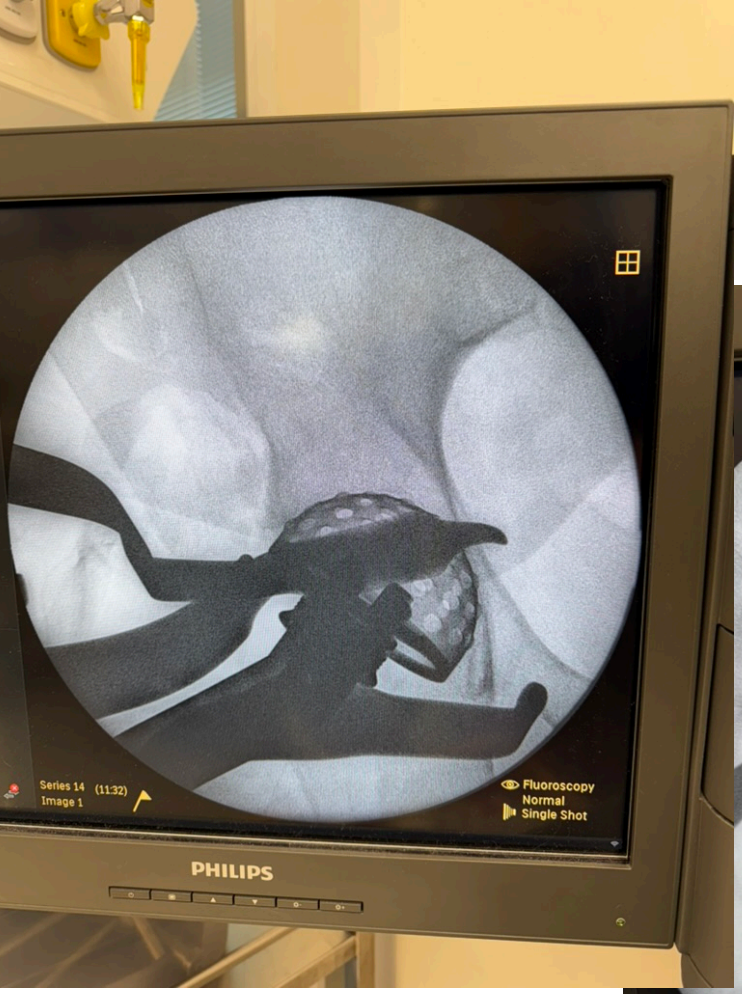
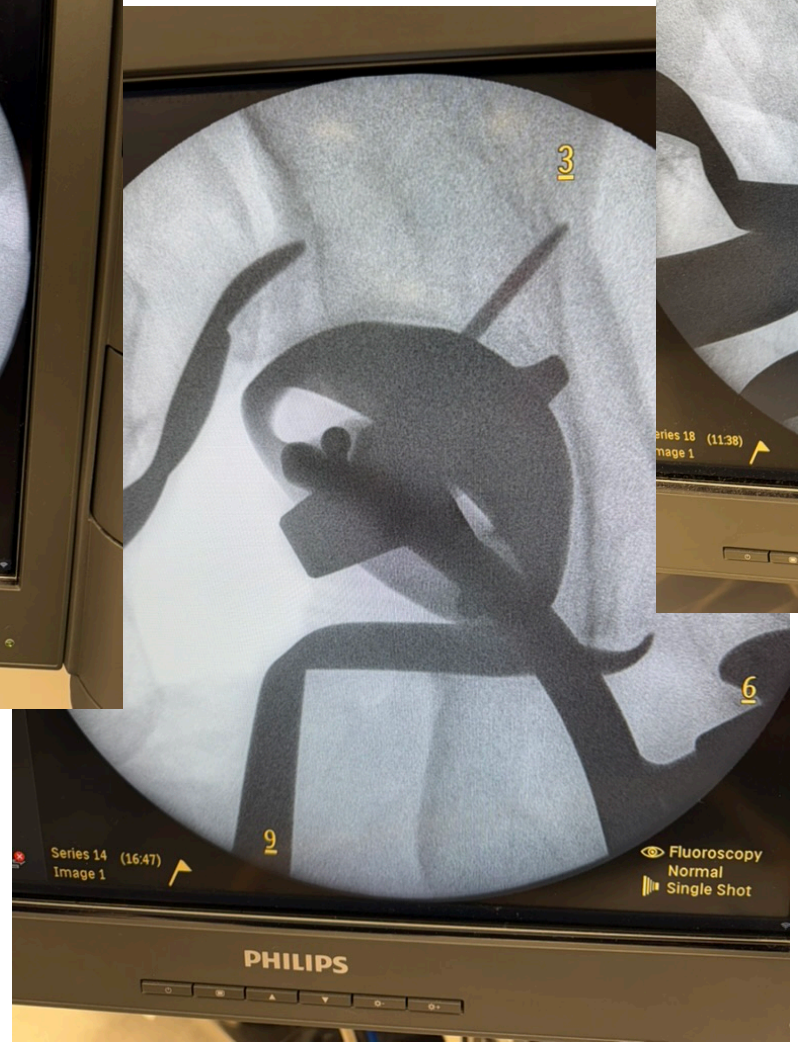
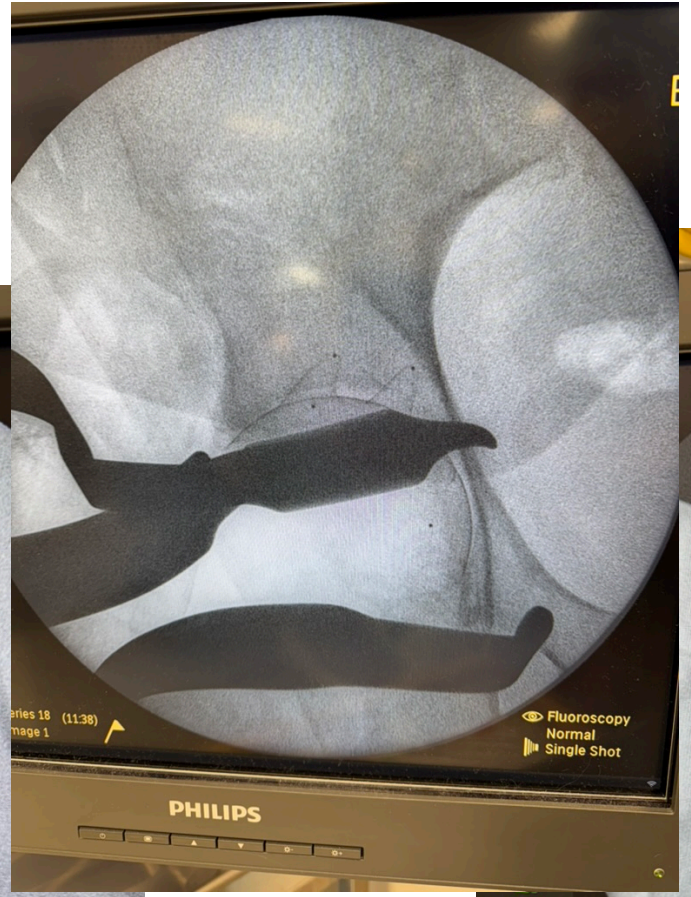
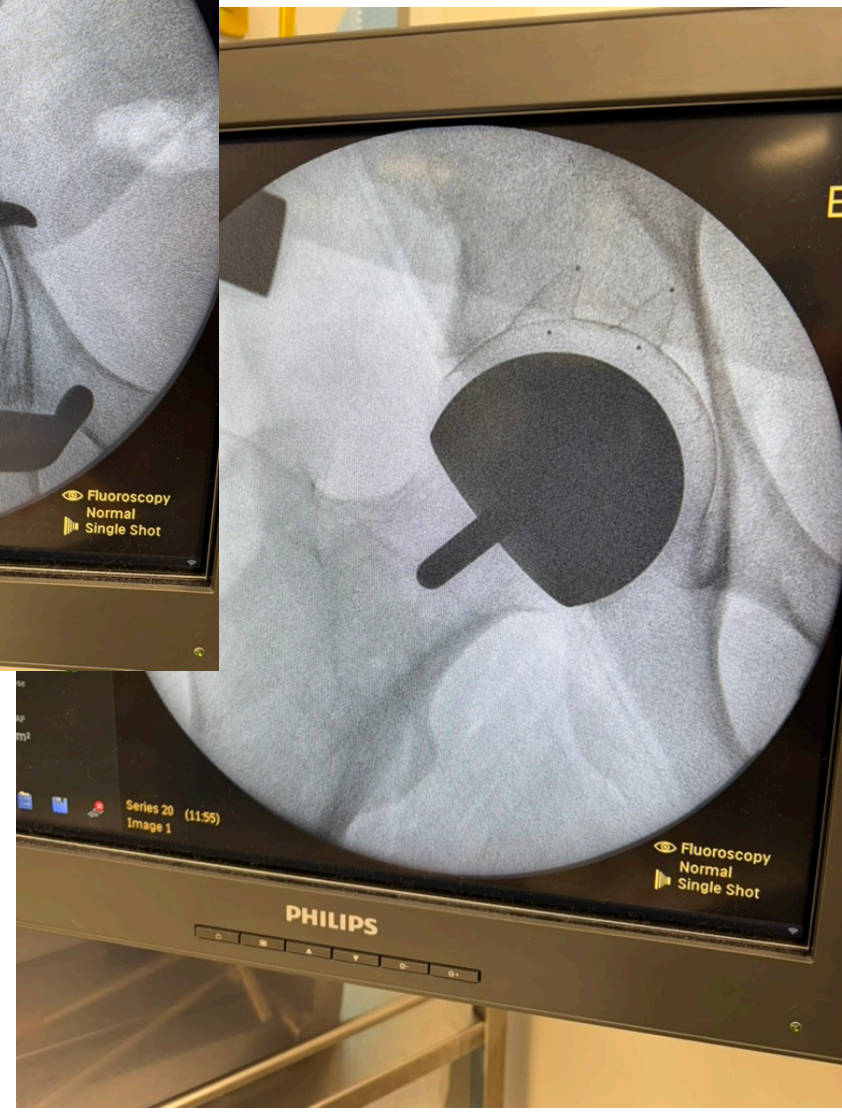
3
12
9









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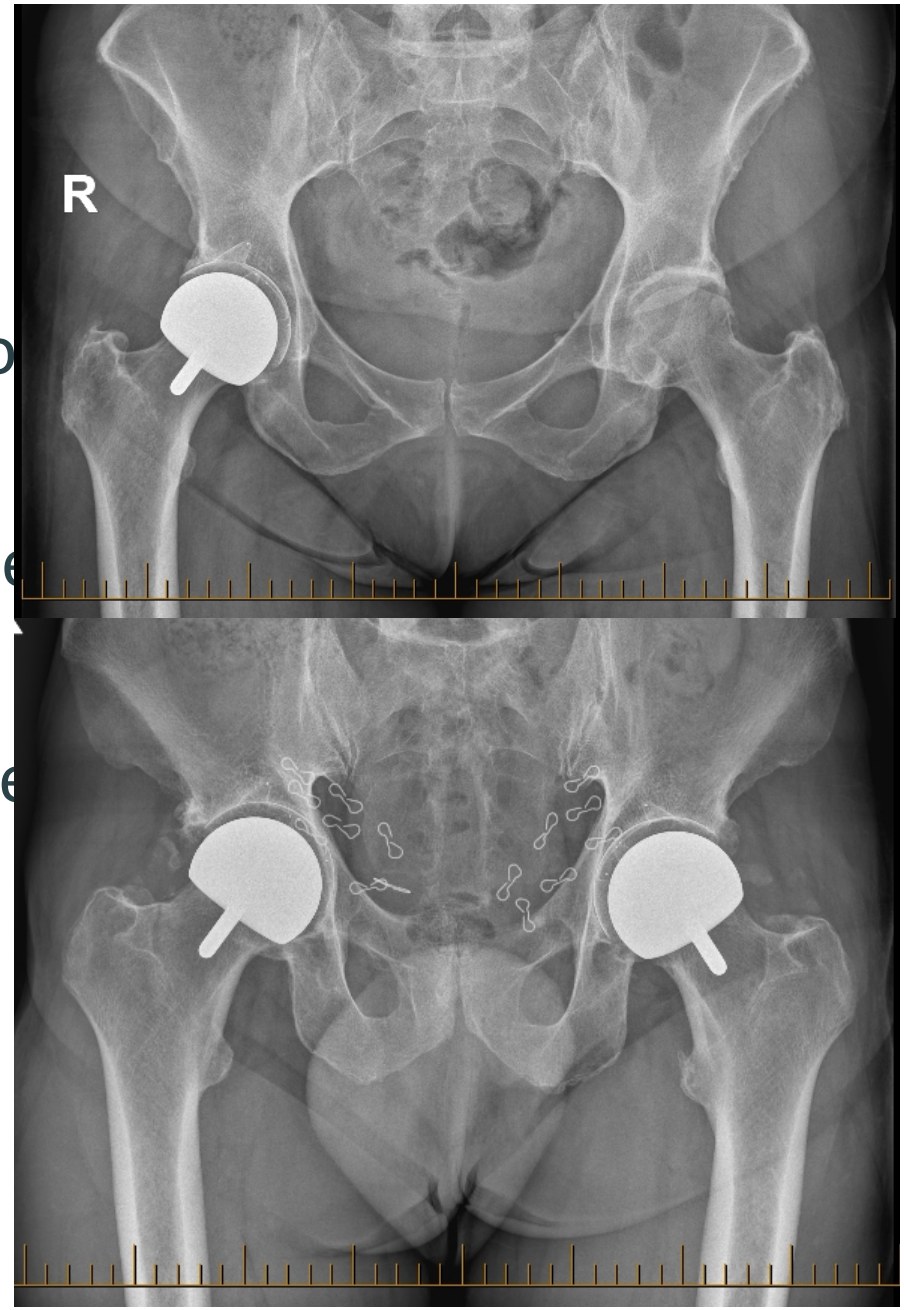
Summary

- Ceramic resurfacings appear good, but other o
- Polymotion early data is very encouraging. 1 ye
- DAA for resurfacing appears safe, and may offe
- Watch this exciting space!



CONTACT INFORMATION

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