



# The Direct Anterior Approach in Hip Arthroplasty

**Presented by Mr. Khalid Merghani & Mr. Brendan O'Daly**

# The Reliable Past

The “Operation of the Century” — reliable and effective, but demanding months of recovery.

# The Modern Expectation



Return to the golf course or chasing grandkids in weeks, not months.

The Direct Anterior Approach (DAA) is not just a smaller scar. It is an **evolution in what we don't cut.**

# The Wall (Posterior Approach)



Requires taking down dynamic stabilizers (**Piriformis**, **Obturator Internus**) and splitting the **Gluteus Maximus**.

# The Door (Direct Anterior Approach)



Utilizes a true internervous plane—the Hueter Interval. We “part the curtains” directly between the Tensor Fasciae Latae (TFL) and the Sartorius.

# Preserving the Dynamic Stabilizers

## Proprioception Intact

By leaving the muscular “firewalls” untouched, the patient’s joint position sense is preserved.



## The “Natural” Feel

Patients report they don’t feel like they are walking on a prosthetic; they feel like they are walking on their own hip.

# Taking the Guesswork Out of Arthroplasty



## GPS vs. Eyeball



### Supine Positioning

The DAA is performed with the patient lying completely flat.

### Real-Time Fluoroscopy

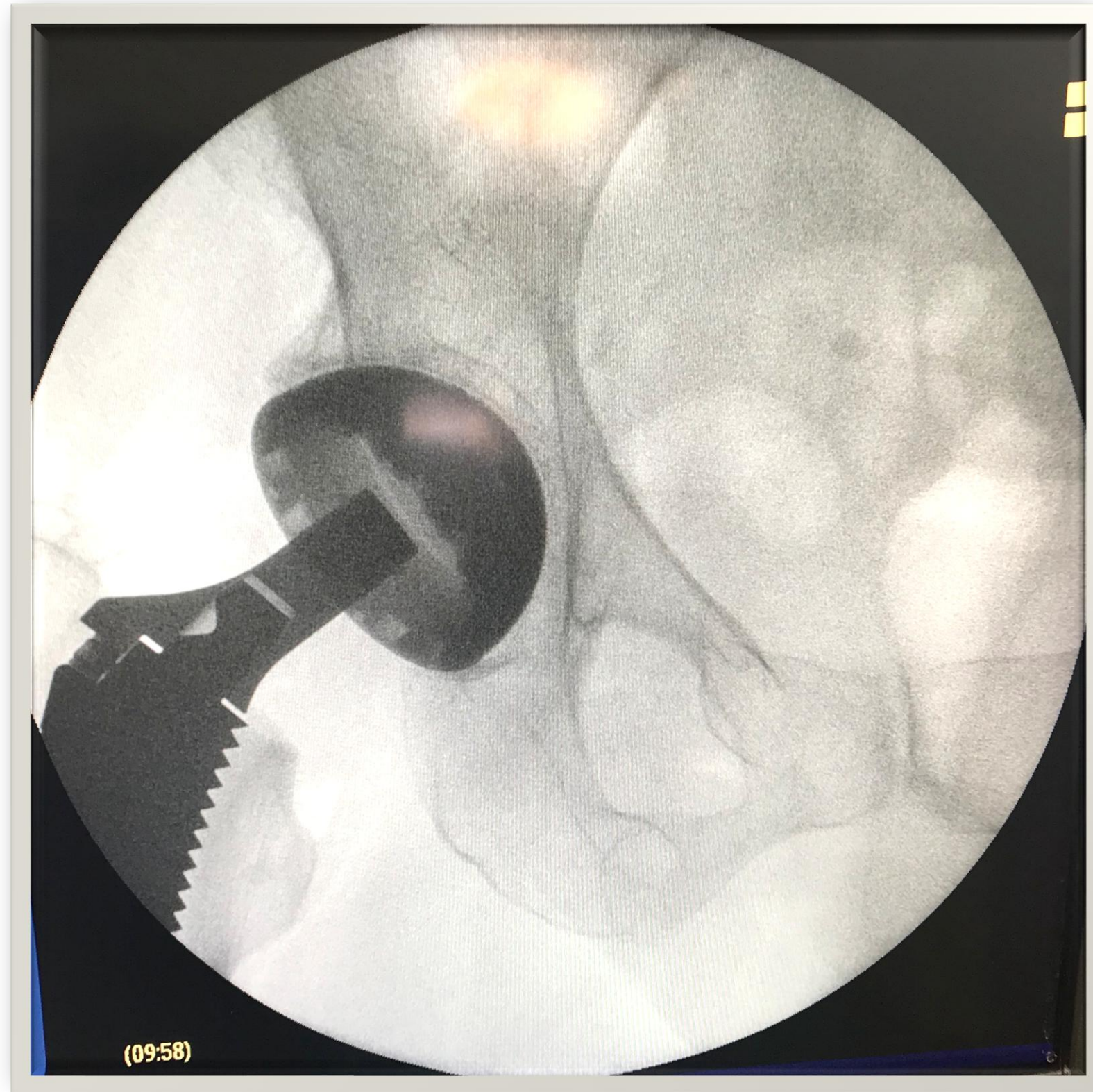
Allows intra-operative X-ray overlay of the new hip against the healthy side before closing the skin.

### Sub-Millimeter Accuracy

Eliminates the “one leg feels longer” patient complaint by optimizing offset and leg length with GPS-like precision.

# Image intensification allows instant assessment

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# The End of Hip Precautions



## The Clinical Reason

The posterior capsule—the main stabilizer against dislocation—remains entirely intact, statistically lowering dislocation risk.

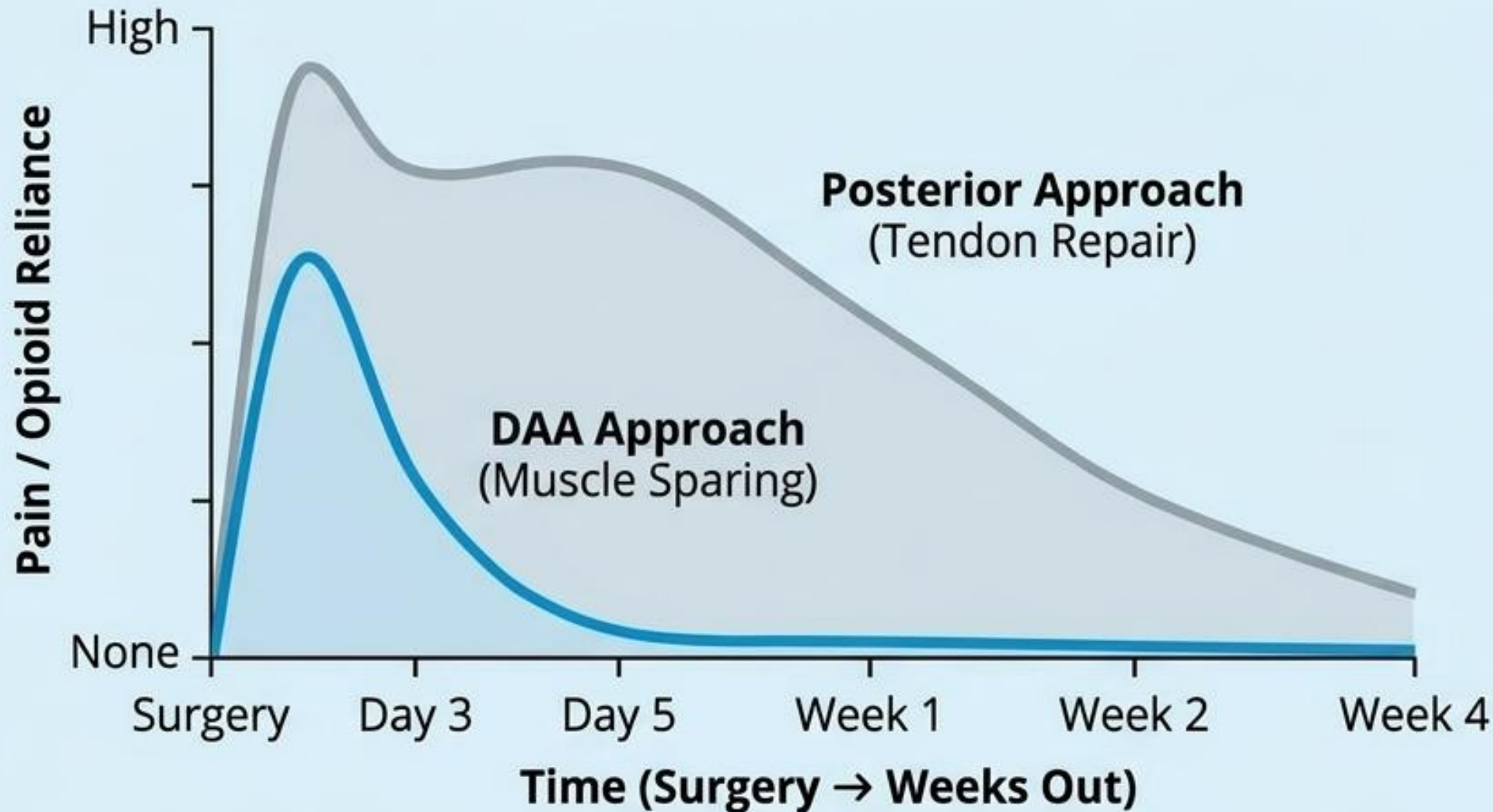
## The Patient Reality

Patients can sleep on their side and sit in a normal chair the day they go home. No “mobility” equipment required.

# Closure



# The Narcotic-Sparing Recovery



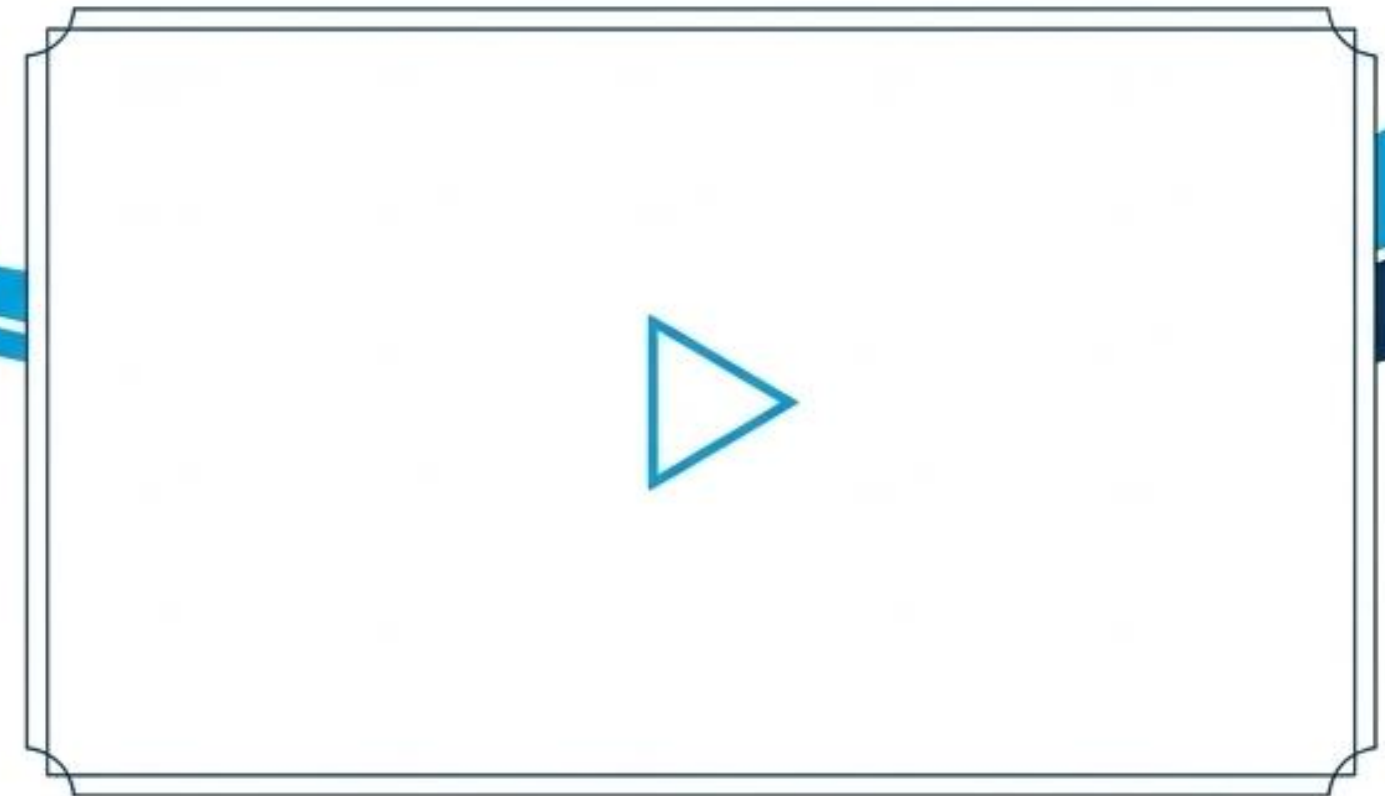
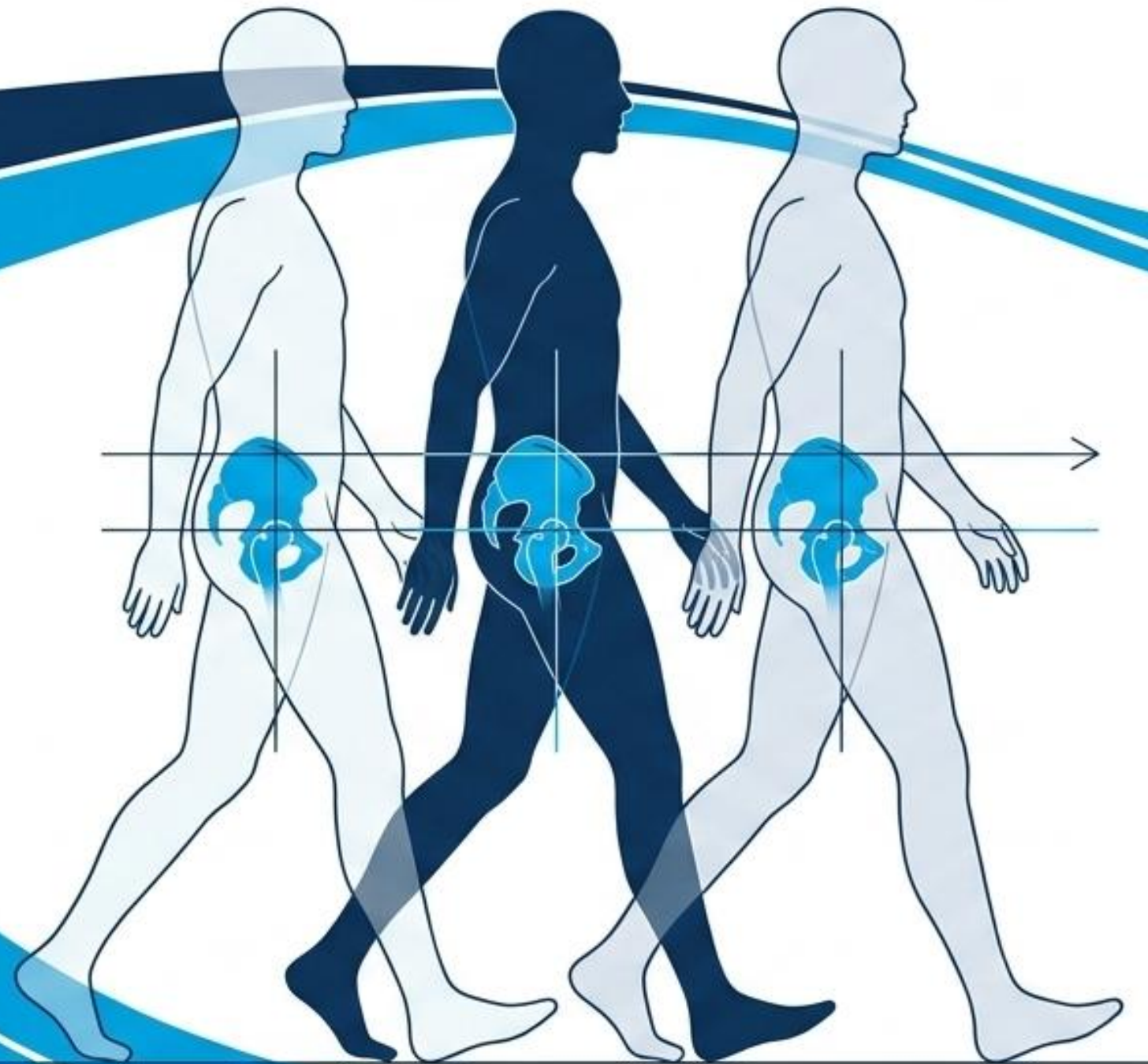
Immediate post-operative pain is inherently lower (no tendons repaired under tension).

Patients taper off heavy narcotics (Oxycodone) in just 3 to 5 days.

Managed solely with scheduled Paracetamol and NSAIDs by the end of Week 1.

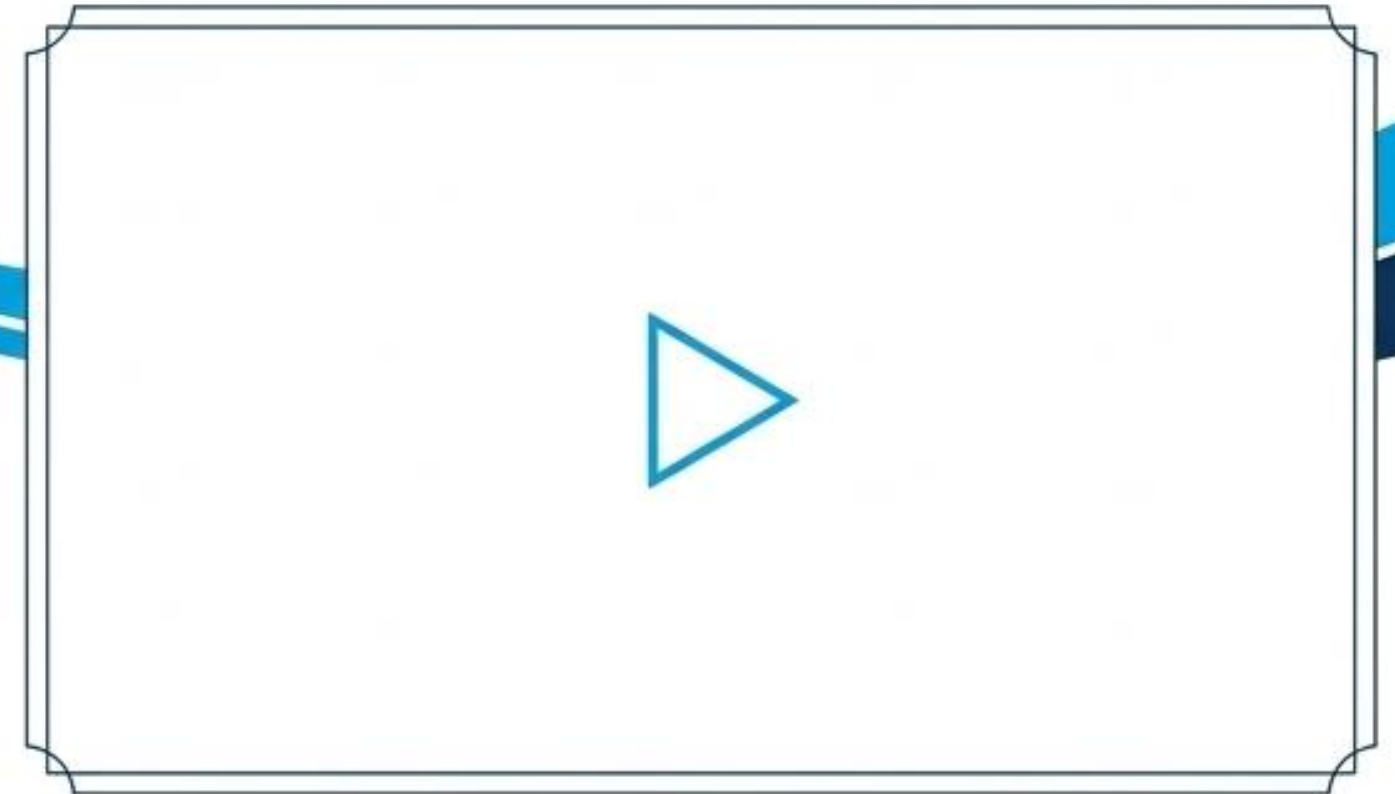
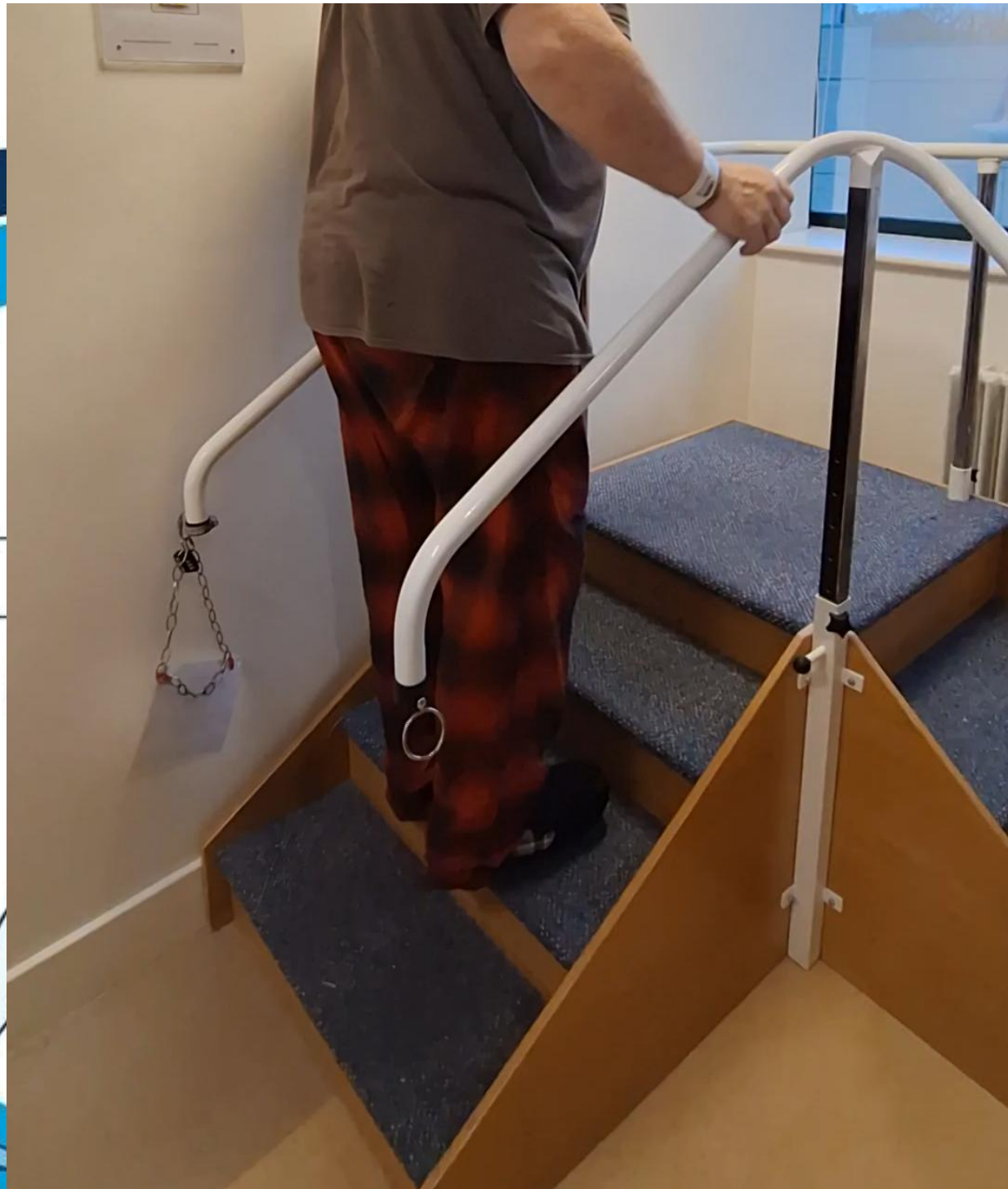
**GP Benefit:** Fewer refill phone calls, and drastically reduced risks of post-op constipation or confusion in elderly patients.

# The First 48 Hours: Eliminating the Trendelenburg Limp



- Because the DAA approach does not require waiting for muscles to heal back to the bone, early functional mobilization is immediate.
- The traditional side-to-side “Trendelenburg gait” is significantly reduced or eliminated entirely.

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# The 'Direct to Home' Recovery Pathway

Milestone	Traditional (Posterior)	Direct Anterior (DAA)
Hospital Stay	2-4 Days	<b>0-1 Day</b> (Outpatient possible)
Walking Aid	Frame/Crutches for 4 weeks	Cane or nothing by 1-2 weeks
Driving	6 weeks	<b>1-3 weeks</b> (once off narcotics)
Precautions	No bending, twisting	<b>None</b> (Move as comfort allows)

# Clinical Transparency: The LFCN Trade-off

## The Trade-off

The **Lateral Femoral Cutaneous Nerve (LFCN)**.

Some patients experience a temporary patch of **numbness** on the outer thigh.



## The Reality & Strategy

This is a highly worthwhile trade-off for protecting the major muscles.

Proactive **communication** is key—if patients are warned beforehand, it is a non-issue; if not, it causes unnecessary alarm.

# Addressing the Learning Curve

## The Historical Concern

DAA is technically demanding, previously associated with higher early complication rates (e.g., femur fractures).

## The Modern Solution

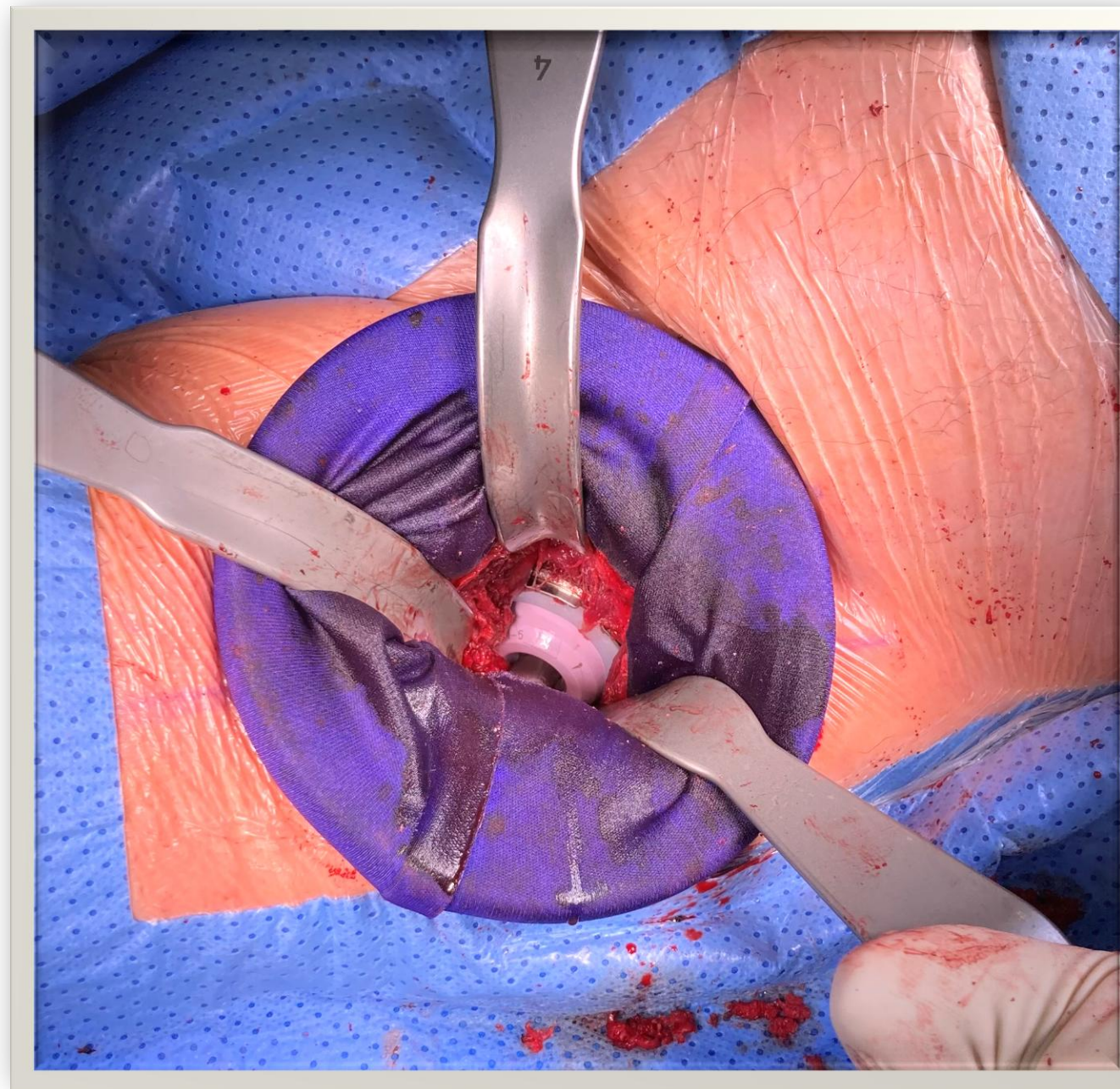
Utilizing modern "offset" instruments and specialized surgical tables.



## The Current Standard

These technological advancements have entirely mitigated early risks. The safety profile is now equal to or better than the posterior approach, but with the added "fast-track" recovery benefits.

# Definitive prosthesis



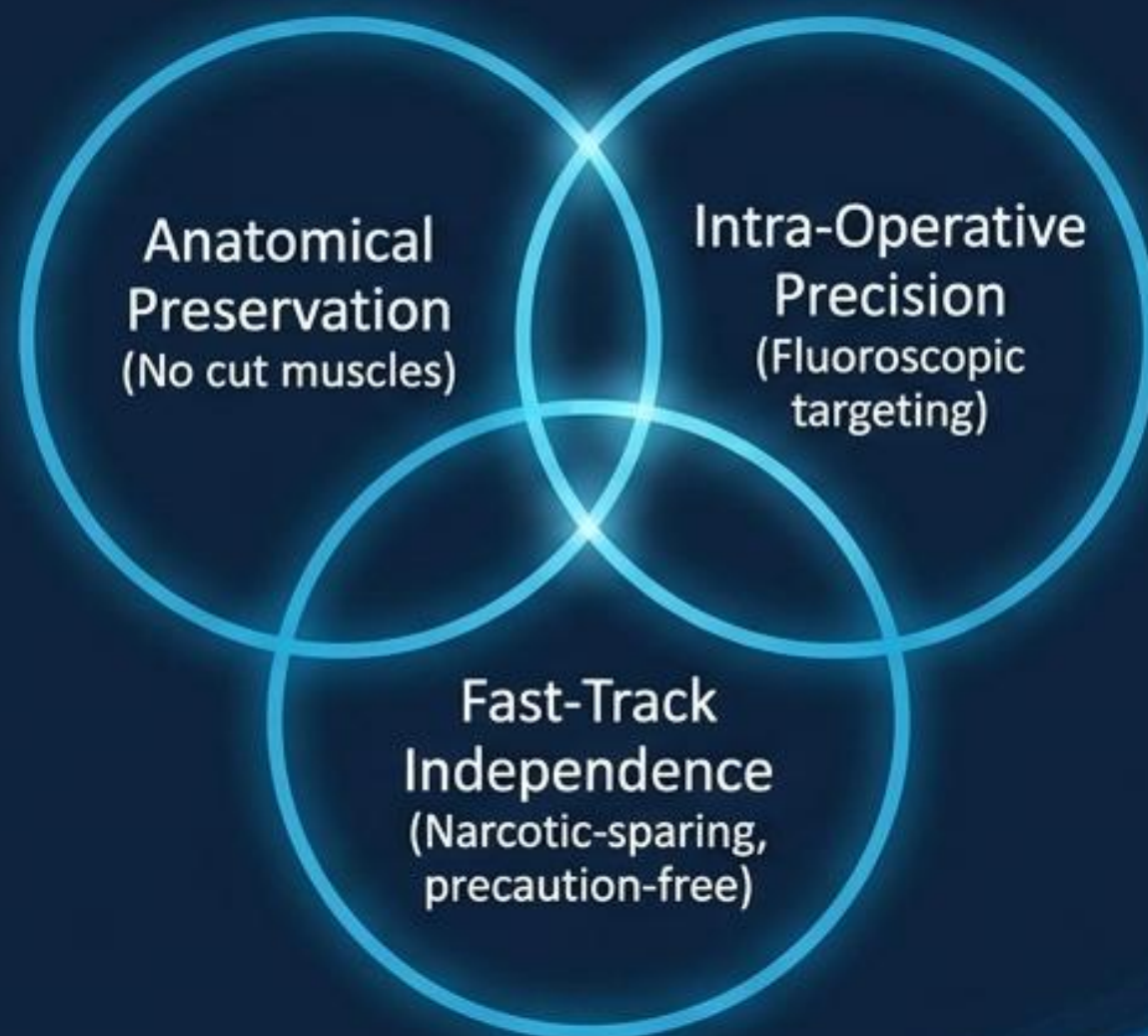
# The Ideal DAA Candidate



- ✓ Symptomatic Osteoarthritis failing conservative management (Physical Therapy and 'Vitamin I' / Ibuprofen).
- ✓ Presenting with significant groin pain and limited internal rotation.
- ✓ Highly motivated for a fast, 'precaution-free' return to function.

**The Game-Changer Profile: Patients who live alone or have limited home support, as DAA allows for functional independence within the first week.**

# The Inevitable Evolution of Orthopedic Care



*Better outcomes for patients mean fewer follow-up complaints in the GP clinic.  
DAA isn't just an alternative; it is the modern standard of care.*