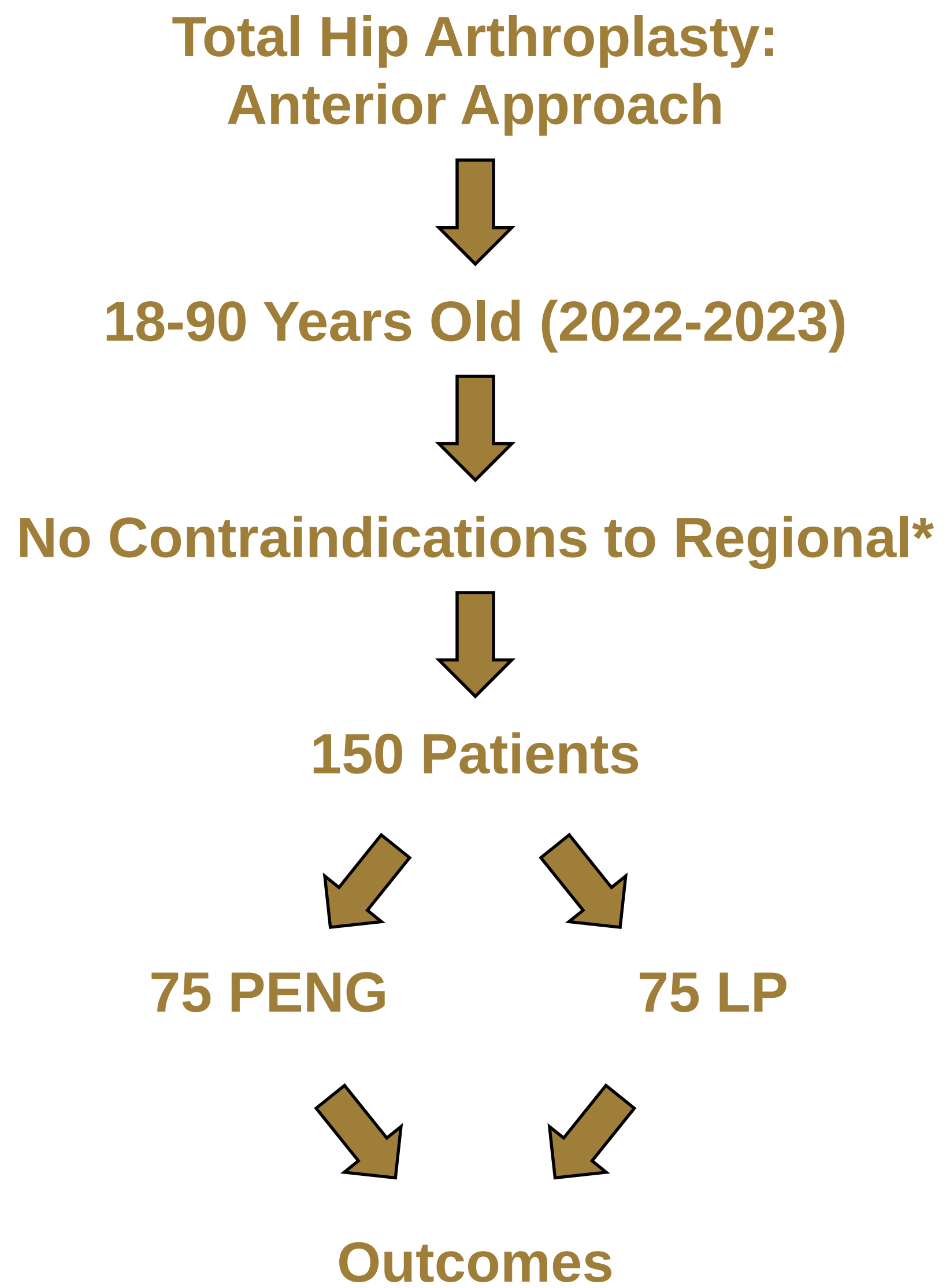


PENG Block Versus Lumbar Plexus Block for Postoperative Analgesia After Primary Anterior Approach Total Hip Arthroplasty

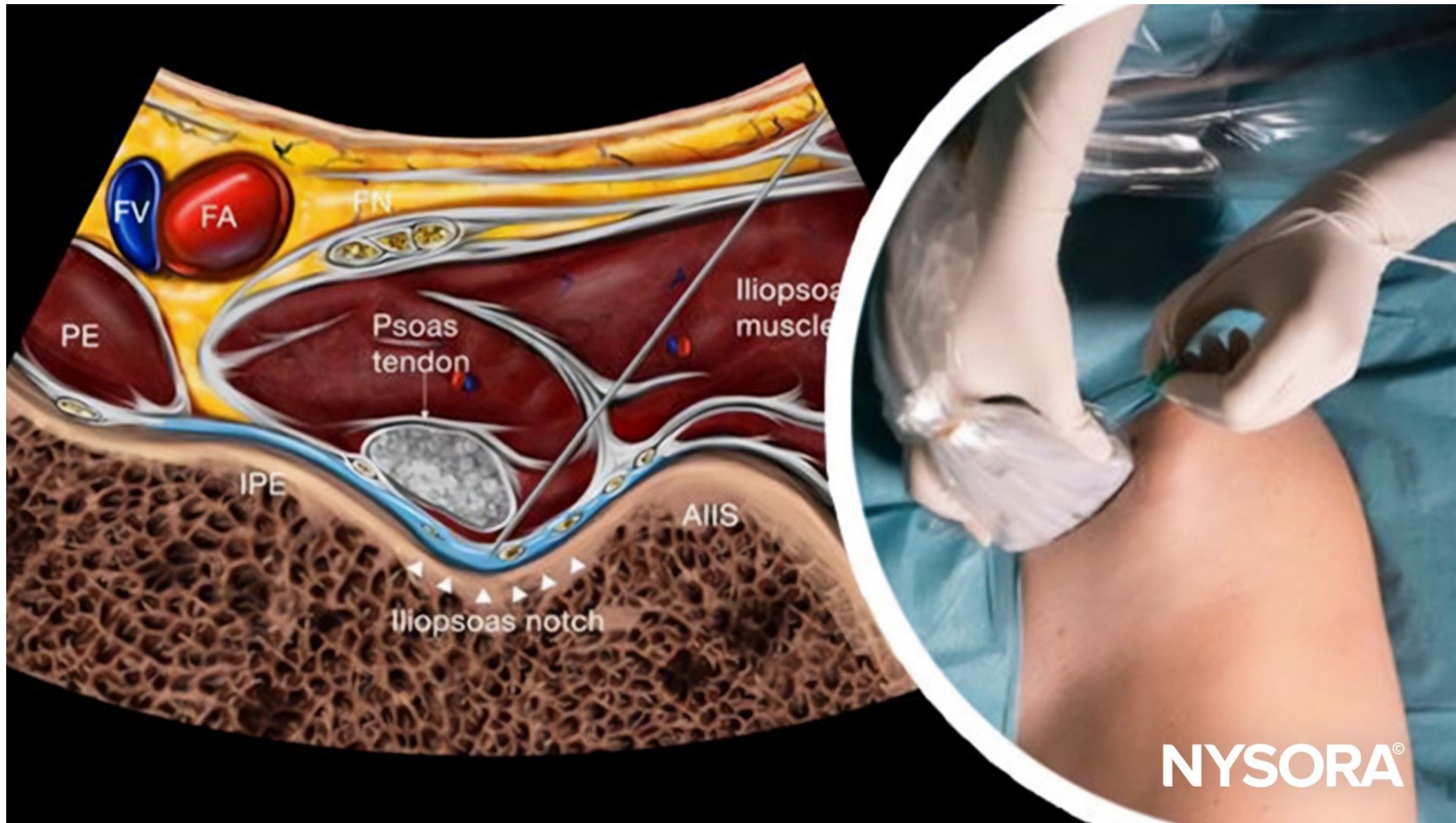
Adam Olson MD, Department of Regional Anesthesia, Atrium Health Wake Forest Baptist Medical Center
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RANDOMIZED, DOUBLE-BLINDED, NON-INFERIORITY STUDY



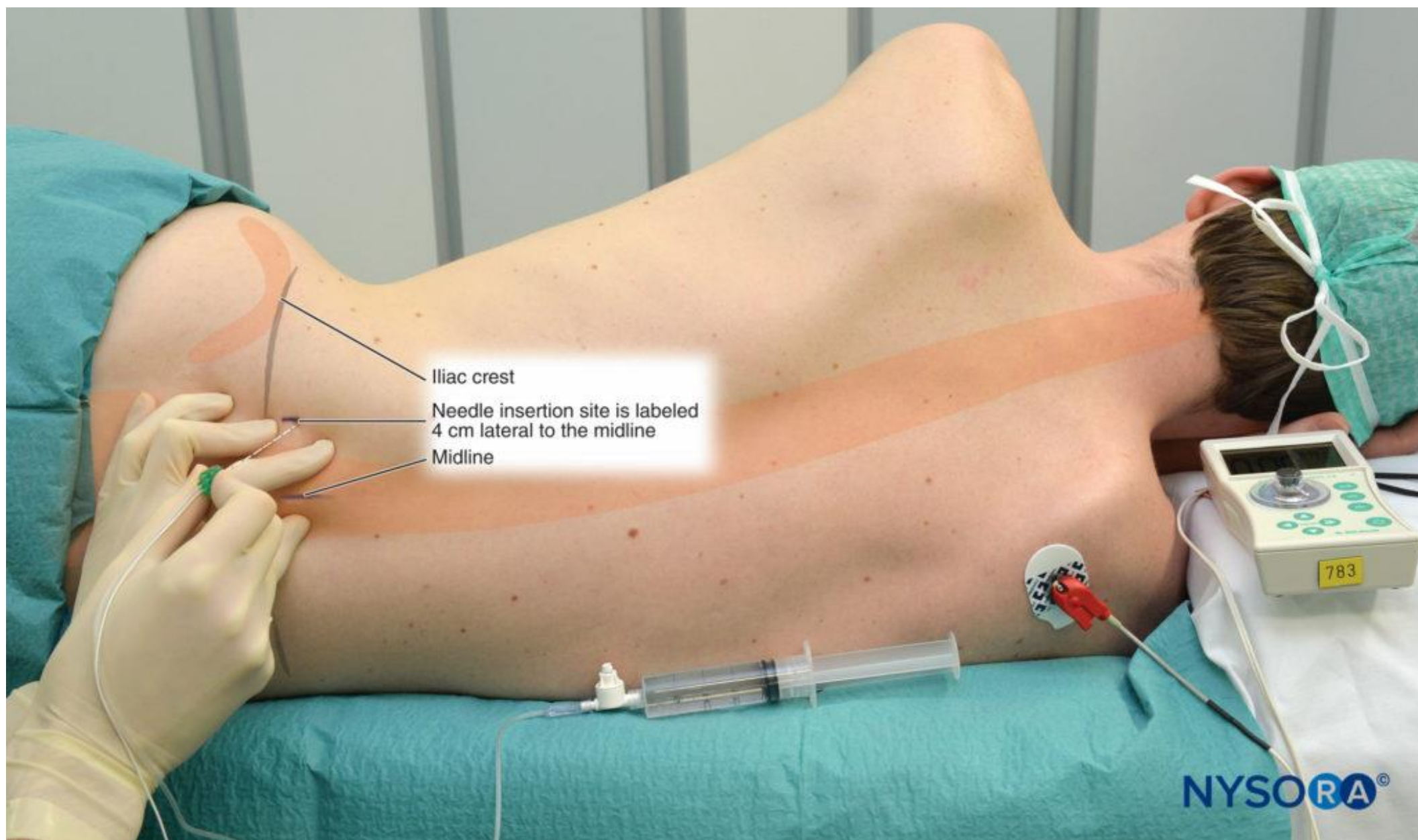
1. PAIN AT 6 HOURS
2. MOTOR STRENGTH
3. OPIOID CONSUMPTION
4. DISTANCE WALKED

PENG Block



<https://www.nysora.com/wp-content/uploads/2024/07/July-30-RAPM.jpg>

Lumbar Plexus (LP) Block



<https://www.nysora.com/wp-content/uploads/2019/02/regional-anesthesia-landmarks-for-lumbar-plexus-block-1024x604.jpg>

RESULTS

NRS Pain Scores		
Group Allocation	Time Interval	Mean
LP	6 hours with Movement	2.8
	6 hours at Rest	2.2
	12 hours with Movement	5.0
	12 hours at Rest	3.8
	18 hours with Movement	5.3
	18 hours at Rest	3.8
	24 hours with Movement	4.6
	24 hours at Rest	2.4
PENG	6 hours with Movement	4.0
	6 hours at Rest	3.2
	12 hours with Movement	6.1
	12 hours at Rest	4.4
	18 hours with Movement	6.0
	18 hours at Rest	3.8
	24 hours with Movement	5.7
	24 hours at Rest	3.3

Motor Strength (0-5) at 6 hours		
Group Allocation	Mean	Std Dev
LP	2.4	1.3
PENG	3.5	1.6

Cumulative Opioids in 24 hours (mg)		
Group Allocation	Mean	Std Dev
LP	40.4	24.0
PENG	40.6	21.5

RESULTS CONTINUED

Distance Ambulated with PT (ft)		
Group Allocation	Mean	P-Value
LP	43.9	0.52
PENG	59.1	

DISCUSSION

	LP	PENG
Pain	↓	↑
Strength	↓	↑
Opioids	=	=
Ambulation	↓	↑

FUTURE: Time to Discharge?

