

Total Joint Cheat Sheet

Spinal w/ Sedation (General Anesthesia Backup)

Setup Checklist

- EtCO₂ nasal cannula/mask
- Spinal kit
- Propofol/precedex gtt
- Phenylephrine gtt
- TXA
- Backup GA supplies

Pre-Op

Sedation candidate?
Neuraxial contraindications?
TXA contraindications?
 +/- Type and screen
 TKA: **Adductor canal block**

Access

PIV x1

Spinal

Monitor for adverse effects

CSE for complex joint repairs

Incision

TXA bolus

Sedation

Propofol
vs
Precedex

Special Considerations

* Bone cement implantation syndrome

Spinal Dosing

Total Knee Arthroplasty

1.5 mL 0.75% hyperbaric bupivacaine
 vs
 3 mL 1.5% mepivacaine
 vs
 2.5 mL 0.5% isobaric bupivacaine

Total Hip Arthroplasty

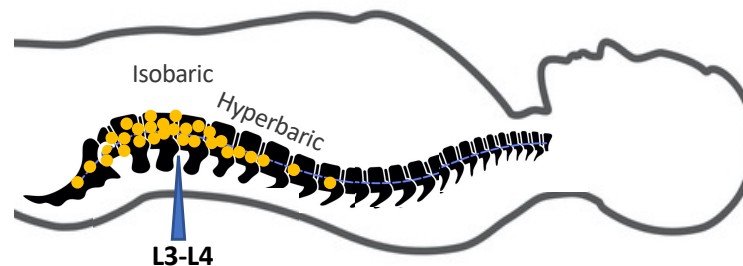
1.6 mL 0.75% hyperbaric bupivacaine
 vs
 3 mL 1.5% mepivacaine
 vs
 2.5 mL 0.5% isobaric bupivacaine

Neuraxial Contraindications

Absolute	Relative
Patient refusal Coagulopathy* Increased ICP Back infection	Stenotic valvular lesion Sepsis Neurologic disease (MS)

Isobaric vs Hyperbaric

Dose, baricity, and patient position determine spinal level



Isobaric bupivacaine: longer sensory and motor block duration (longer time to ambulation). Equivalent onset time.

TXA Contraindications

- Significant seizure disorder
- Significant clotting disorder
Safe per retrospective studies, no RCT's

Spinal Adverse Effects

- Total spinal (loss of consciousness)
- High Spinal
- Bradycardia --> cardiovascular collapse
High spinal + Bezold-Jerisch + vagal tone

! Atropine, low dose epi

- Post-dural puncture headache
- Hypotension
- Nausea
- Transient hearing impairment
- Urinary retention
- Neurologic damage (rare)