

## **C-40 Hip Fracture Repair in the Elderly Anticoagulated Patient: What Blocks Can I Use?**

**Moderator(s)/Facilitator(s):** Uchenna Umeh, M.D., Mikhail Goman, M.D.

### **Objective**

After completion of this session, the participant will be able to:

- Predict at least two risks and benefits of regional blockade in an anticoagulated patient presenting for hip fracture repair.

### **Case Stem Question**

89-year-old 51kg female patient with a past medical history of hypertension, Atrial fibrillation on Apixaban, hypothyroidism, mild dementia on Donepezil, presents after a fall at home this morning. She is in pain, confused and is oriented only to person, she does not know where she is or what the date is. Her last dose of Apixaban was the night before. The orthopedic surgeon insists that the case must proceed immediately, and that the patient has been cleared by cardiology. What is the optimal anesthetic option for this patient?

### **Guiding Questions for Discussion**

What is the anesthetic plan? What blocks should an anesthesiologist place for a patient presenting for hip fracture repair?

What multimodal analgesic plan would you normally use for this patient? Does her advanced age influence your choices?

How does the fact that the patient is anticoagulated complicate this picture? What are your options outside of general anesthesia?

Do you routinely use local anesthetic additives as part of the regional anesthetic? What are the risks associated with these blocks?

Would you allow the surgical team to inject additional local anesthetic into the wound at the end of the case? if yes, how much.

How does the frailty index score affect the patient's post operative functional status and overall recovery?

### **References**

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2. Gerner P, Cozowicz C, Memtsoudis SG. Outcomes After Orthopedic Trauma Surgery - What is the Role of the Anesthesia Choice? *Anesthesiol Clin.* 2022 Sep;40(3):433-444. doi: 10.1016/j.anclin.2022.04.001. Epub 2022 Jul 12. PMID: 36049872.
3. Girón-Arango L, Peng PWH, Chin KJ, Brull R, Perlas A. Pericapsular Nerve Group (PENG) Block for Hip Fracture. *Reg Anesth Pain Med.* 2018 Nov;43(8):859-863. doi: 10.1097/AAP.0000000000000847. PMID: 30063657.