

## **C-28 Regional Anesthesia as the Primary Anesthetic in a Low Body Weight Patient Undergoing Hip ORIF**

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### **Objective**

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

- Formulate safe anesthetic options for frail patients requiring surgery.

### **Case Stem Question**

86 y.o female with PMH dementia, arthritis, chronic cough, recurrent PNA, anemia (Hb 7.9), thrombocytopenia s/p transfusion, recurrent UTI, cholangiocarcinoma, colon CA, breast CA on hospice and BMI of 15.18 (37.6kg/1.575m) who suffered a comminuted displaced intertrochanteric fracture of the left proximal femur. Surgical plan was for a left hip ORIF using a short nail.

### **Guiding Questions for Discussion**

Would you proceed with the planned surgical procedure and what are your concerns?

Would you have a discussion with the patient and her family?

What alternatives for pain control can be offered other than the planned surgical fixation?

In your opinion what is the safest anesthetic for this patient? (Discuss general vs neuraxial, +/- PNB)

Can this case be done under regional anesthetic?

Which blocks can be performed to allow for optimal surgical anesthesia? Discuss the innervation of the hip capsule.

How can you best optimize your usage of local anesthetic to allow for appropriate surgical anesthesia?

Do you have any concerns utilizing a considerable amount of local anesthetic for your nerve blocks?

What are signs and symptoms of local anesthetic systemic toxicity (LAST)? How is it managed?

### **References**

Etzioni DA, Liu JH, Maggard MA, Ko CY. The aging population and its impact on the surgery workforce. *Ann Surg.* 2003 Aug;238(2):170-7. doi: 10.1097/01.SLA.0000081085.98792.3d. PMID: 12894008; PMCID: PMC1422682.

Hansen PW, Gislason GH, Jørgensen ME, Køber L, Jensen PF, Torp-Pedersen C, Andersson C. Influence of age on perioperative major adverse cardiovascular events and mortality risks in elective non-cardiac surgery. *Eur J Intern Med.* 2016 Nov;35:55-59. doi: 10.1016/j.ejim.2016.05.028. Epub 2016 Jun 13. PMID: 27306404.

Heiden, Jace J. MD; Goodin, Stephen R. MD; Mormino, Matthew A. MD; Siebler, Justin C. MD; Putnam, Sara M. MD; Lyden, Elizabeth R. MS; Tao, Matthew A. MD. Early Ambulation After Hip Fracture Surgery Is Associated With Decreased 30-Day Mortality.

Journal of the American Academy of Orthopaedic Surgeons 29(5):p e238-e242, March 1, 2021. | DOI: 10.5435/JAAOS-D-20-00554

Jacobs, D. (2023b, August 9). Local anesthetic systemic toxicity (LAST). NYSORA. <https://www.nysora.com/local-anesthetic-systemic-toxicity-last/>

Niu, Zejun MD\*; Xu, Xiaolin Bachelor; Chu, Haichen MD; Yin, Jihui Master. Anesthetic management of hip fracture in geriatric patient with respiratory and heart failure using pericapsular nerve group block: A case report. *Medicine* 101(22):p e29478, June 03, 2022. | DOI: 10.1097/MD.00000000000029478

Shelton C, White S. Anaesthesia for hip fracture repair. *BJA Educ.* 2020 May;20(5):142-149. doi: 10.1016/j.bjae.2020.02.003. Epub 2020 Mar 23. PMID: 33456943; PMCID: PMC7808106.