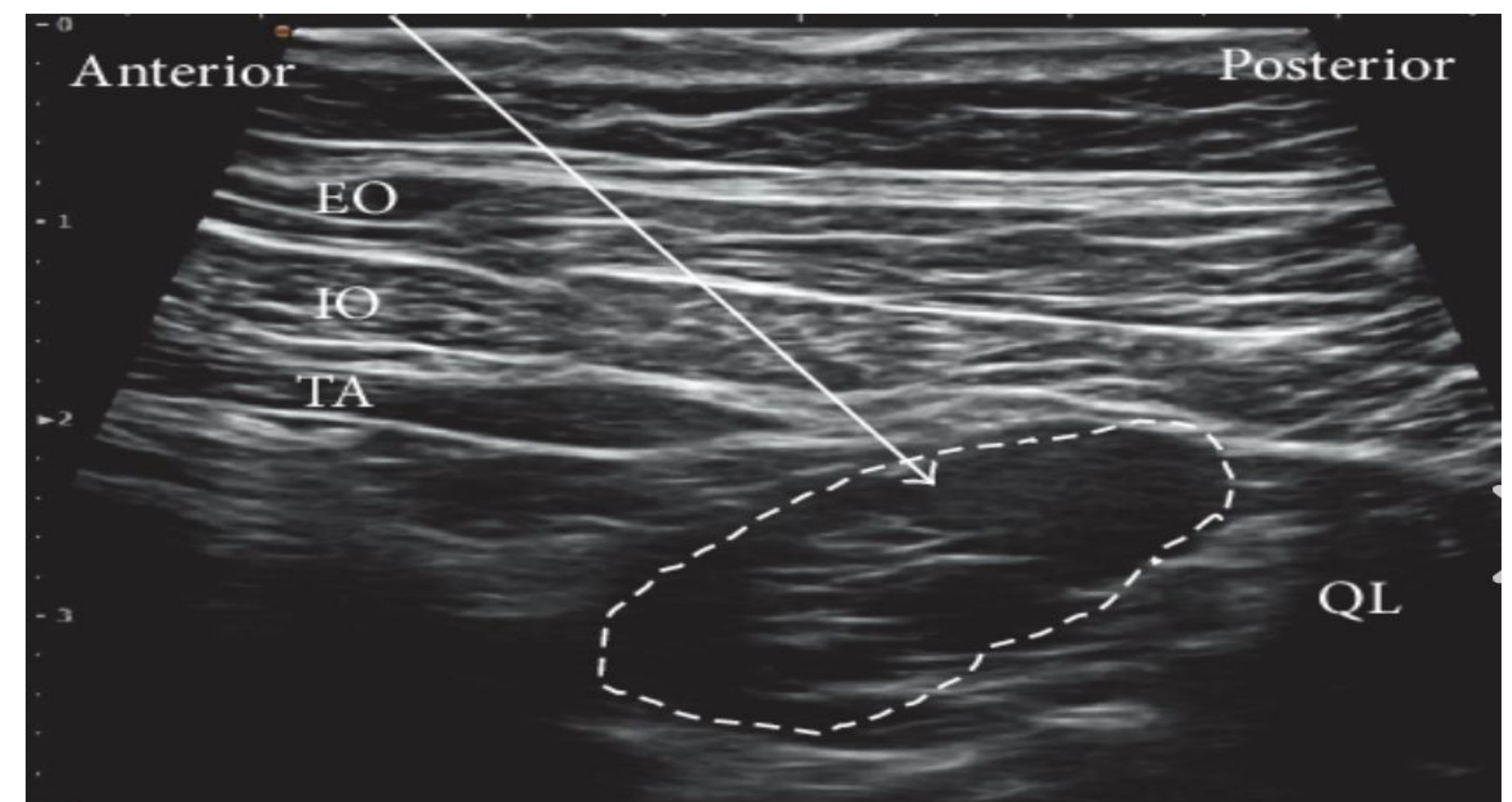
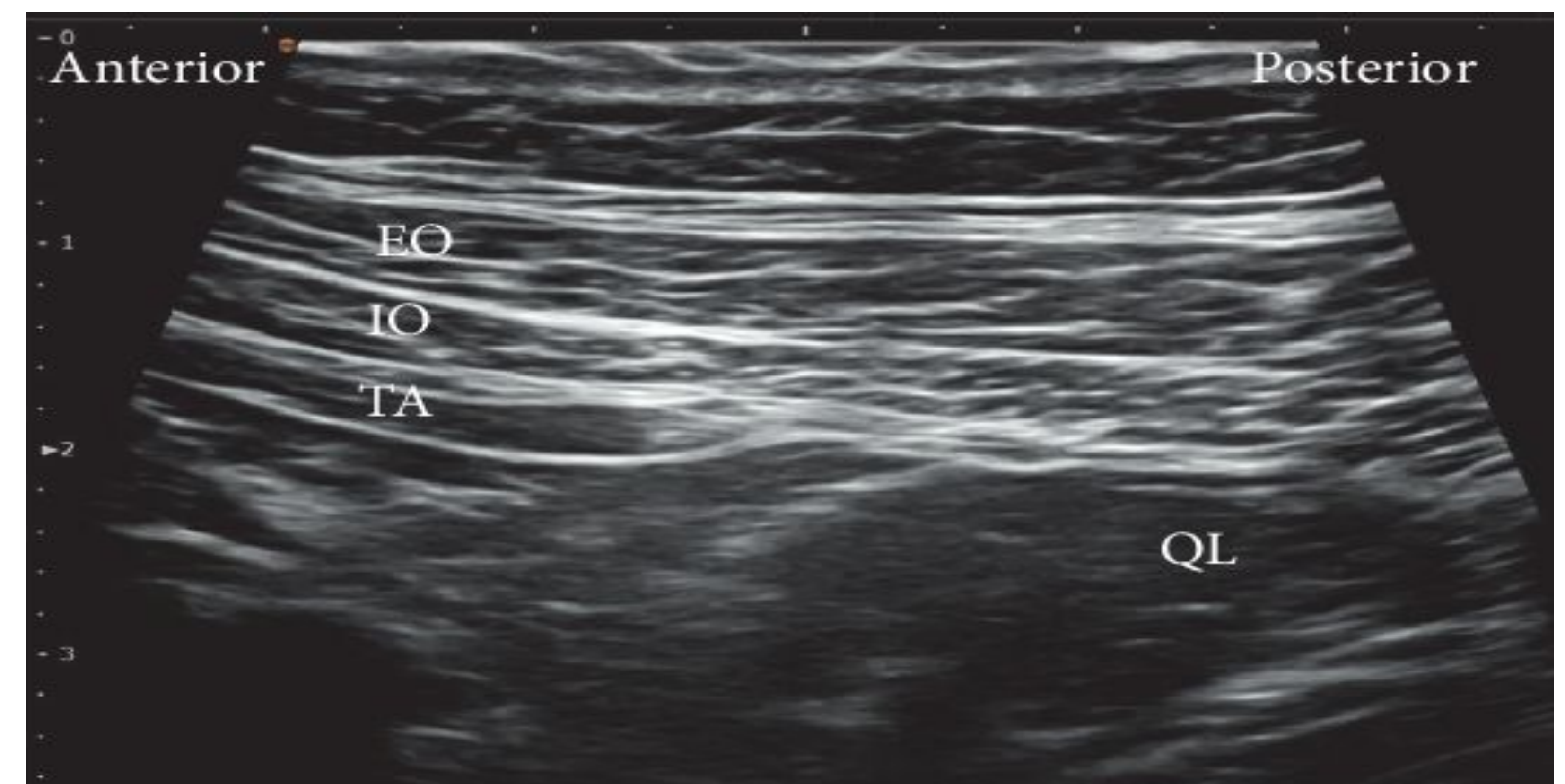


Background

- Pain from degenerating uterine fibroids during pregnancy can be severe and challenging to manage due to limitations on systemic analgesics and concerns for maternal and fetal safety.
- Regional anesthesia techniques may offer effective, opioid-sparing analgesia in select obstetric patients.
- We describe the successful use of a quadratus lumborum (QL) peripheral nerve catheter for refractory abdominal pain due to a degenerating fibroid in a pregnant patient.



Case Report

- A 24-year-old G1P0 woman at 23 weeks and 4 days' gestation with a known large left pedunculated fibroid and hydronephrosis status post ureteral stent placement 10 days prior presented with worsening abdominal pain.
- She reported baseline pain of 8/10, escalating to 10/10 with movement, resulting in markedly limited mobility.
- Pelvic Ultrasound demonstrated a heterogeneous echogenic left adnexal mass measuring 12 × 7 × 10 cm consistent with a degenerating fibroid. Fetal non-stress testing was reactive and reassuring for gestational age.
- Initial pain management included oxycodone, intravenous hydromorphone, ketorolac, and lidocaine patches with minimal relief.
- Despite ureteral stent removal by urology, her pain persisted. Transition to a hydromorphone PCA provided rest but inadequate analgesia, with ongoing severe pain at rest and with movement.
- The anesthesia team performed a right-sided single-shot QL block using 30 mL of 0.375% ropivacaine with epinephrine (1:200,000), resulting in significant pain relief. As analgesia waned, a right QL peripheral nerve catheter was placed and hand bloused twice daily with 20 mL of 0.375% bupivacaine with epinephrine.
- With the peripheral QL nerve block, the patient reported pain improvement to 1/10, ambulated, and participated in physical therapy. The catheter remained in place for four days, after which she was discharged on oral multimodal analgesics.

Teaching Points

- This case highlights the utility of a QL peripheral nerve catheter as an effective, opioid-sparing analgesia strategy for severe fibroid-related pain during pregnancy.
- The QL block provided substantial functional improvement when systemic therapies failed, allowing ambulation and recovery while minimizing opioid exposure.
- Peripheral nerve catheters may represent a valuable option for managing refractory non-obstetric abdominal pain in pregnant patients, though further study is needed to define its safety profile and optimal dosing in this population.

References

1. Tan H, Sen Taylor C, Weikel D, Barton K, Habib AS. Quadratus lumborum block for postoperative analgesia after cesarean delivery: a systematic review with meta- analysis and trial-sequential analysis. J Clin Anesth. 2020;67.
doi:10.1016/J.JCLINANE.2020.11000326
2. Børglum J, Moriggl B, Jensen K, Lönnqvist PA, Christensen AF, Sauter A, et al. Ultrasound-guided transmuscular quadratus lumborum blockade. Br J Anaesth. 2013;110(3).