

BBC HIP FRACTURE: CONTINUOUS FASCIA ILIACA BLOCKS

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BBC Hip Fractures, FI Block

- Scope of problem
 - >300,00 hip fractures in US/year
 - Rate is declining but incidence is increasing due to aging population
 - Approximately 30% one year mortality rates
 - 1-10% mortality during hospital stay
 - 50% lose ability to care for themselves





BBC Hip Fractures FI Block

BBC Anesthesiology Initiatives

- 2015 tried femoral nerve blocks on arrival to OR along with multimodal analgesics post-op.
 - This improved post-op pain relief and narcotic consumption
- 2017 changed to single shot fascia iliaca blocks upon surgery arrival
 - Better blockade of Obturator and Lateral Femoral Cutaneous Nerves with less effect on Quadriceps muscle strength
- Jan, 2018 Began continuous fascia iliaca blocks on arrival to surgery and continued for up to three days post-op. Further reduced opioid consumption and post-op delirium (anecdotal – Have not gathered data)
- Patients continued to receive high doses of narcotics between ED and surgery with frequent delirium on arrival to surgery. Many could not sign their own consent.





BBC Hip Fractures FI Block

- Began Continuous FI Block on arrival to ED on April 9, 2018
 - ED physician notifies anesthesia of patient. Narcotics are avoided
 - Anesthesia obtains consent and places continuous block catheter at fascia iliaca and boluses with dilute local anesthetic (0.2% ropivicaine)
 - Anesthesia places order for multimodal analgesics and continuous nerve block infusion (0.2% Naropin at 6 mL/hour.
 - Floor nurse connects continuous infusion to block catheter





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Results

- Demographics
- 20 patients prior to program start (12/25/17 4/9/18)
- 20 patients with block placed in ED (4/9)

	#	Male	Female	Avg Age	Time to Surgery
W/O Block	20	7	13	79.01	22.8 hours
With BLOCK	20	3	17	81.85	27.6 hours





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Results

		Pain score Second 8 hours	Pain score Third 8 hours
Without block	7.97	6.17	7.03
With block	4.89	3.7	2.92





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• Results:

	IV MS EQ First 8 hours	IV MS EQ Second 8 hours	IV MS EQ Third 8 hours	LOS	LOS After Surgery
Without Block	10.2	5.6	4.55	5	4.05
With Block	3.56	2.1	0.98	4.7	3.55





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- What we see (Anesthesia rounds every day on every patient)
 - Less delirium pre-op and less delirium post-op
 - More mobility Fracture order set has been modified to have patient sit out of bed for all meals and 1 hour after, up w/assistance
 - Greater patient AND family satisfaction
 - Greater RN satisfaction





BBC Fractured Hip: FI Blocks

- To Be Determined
 - CAM Scores
 - Effect on placement/independent living
 - Mortality Rates: In hospital and 1 year
 - LOS compared to benchmark
 - HCAHP Scores





Thank you!

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