# Safety in Spine Month: My 3 OR Checklists



Jennifer M. Bauer, MD, MS
Seattle Children's Hospital
University of Washington

# Pre-Drape Checklist:

Surgeon-led within current timeout.

☐Thoracic vertebrae count:	☐Nitrous oxide discontinued (if used)
□Lumbar vertebrae count: (surgeon visually counts aloud)	□TXA confirmed
☐Agreement on planned surgical levels and/or instrumented levels	☐Bite blocks in place
	□Exparel ordered
□Special concerns reviewed	☐Neuro-monitoring plan discussed
☐Anesthesia plan and propofol dosing discussed	☐Blood pressure goals discussed
	☐Cell saver plan discussed





### Pre-Closure Checklist:

RN-led at closing count.

☐ Bone graft ☐ Confirmation of correct surgical levels and/or instrumented levels Antibiotic powder ☐ Final tightening ☐ Drain use y/n ■ Exparel injected ☐ IONM signals reviewed ☐ Reduction tabs removed ☐ Dressings and special items ☐ Bacitracin (50,000 units / liter) or discussed Betadine irrigation (50ml of 10% Betadine sterile solution into 1 liter ☐ Post-operative bed discussed of saline) or ancef soln





# **IONM Signal Loss:**

### Checklist for the Response to Intraoperative Neuromonitoring Changes in Patients with a Stable Spine

#### TECHNICAL/NEUROPHYSIOLOGIC GAIN CONTROL OF ROOM ANESTHETIC/SYSTEMIC SURGICAL Intraoperative pause: Optimize mean arterial ■ Discuss status of Discuss events and pressure (MAP) stop case and announce anesthetic agents actions just prior to signal loss and consider to the room reversing actions: Check extent of Optimize hematocrit neuromuscular blockade □ Eliminate extraneous ■ Remove traction (if and degree of paralysis stimuli (e.g. music, applicable) conversations, etc.) ■ Decrease/remove Optimize blood pH and □ Check electrodes and distraction or other pCO<sub>2</sub> connections ■ Summon ATTENDING corrective forces anesthesiologist, SENIOR neurologist or □ Remove rods ■ Determine pattern and neurophysiologist, and Seek normothermia timing of signal changes EXPERIENCED nurse ■ Remove screws and probe for Check neck and limb breach Anticipate need for □ Discuss POTENTIAL positioning; check limb intraoperative and/or need for wake-up test with position on table perioperative imaging if ATTENDING Evaluate for spinal cord especially if unilateral loss not readily available anesthesiologist compression, examine osteotomy and laminotomy sites ONGOING CONSIDERATIONS □ REVISIT anesthetic/systemic considerations and confirm that they are optimized ■ Intraoperative and/or Wake-up test perioperative imaging Consultation with a colleague (e.g. O-arm, fluoroscopy, x-ray) to evaluate implant Continue surgical procedure versus staging procedure

■ IV steroid protocol: Methylprednisolone 30 mg/kg in first hr, then 5.4 mg/kg/hr for next 23 hrs

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placement

# 1 single sheet of paper to keep me safe in the OR:

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tic Powder:

Last Updated: 10/22/2024

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#### Checklist for the Response to Intraoperative Neuromonitoring Changes in Patients with a Stable Spine ANESTHETIC/SYSTEMIC TECHNICAL/NEUROPHYSIOLOGIC GAIN CONTROL OF ROOM SURGICAL Optimize mean arterial □ Discuss status of □ Discuss events and ■ Intraoperative pause: anesthetic agents pressure (MAP) stop case and announce actions just prior to signal loss and consider to the room reversing actions: □ Check extent of ☐ Optimize hematocrit ☐ Eliminate extraneous neuromuscular blockade ☐ Remove traction (if and degree of paralysis stimuli (e.g. music. applicable) conversations, etc.) ■ Decrease/remove Optimize blood pH and ☐ Check electrodes and distraction or other connections ■ Summon ATTENDING corrective forces anesthesiologist, SENIOR neurologist or ☐ Remove rods neurophysiologist, and ■ Determine pattern and □ Seek normothermia EXPERIENCED nurse timing of signal changes ☐ Remove screws and probe for ☐ Check neck and limb breach □ Anticipate need for ☐ Discuss POTENTIAL positioning: check limb intraoperative and/or need for wake-up test with position on table perioperative imaging if ATTENDING ☐ Evaluate for spinal cord especially if unilateral loss not readily available anesthesiologist compression, examine osteotomy and laminotomy sites ONGOING CONSIDERATIONS □ REVISIT anesthetic/systemic considerations and confirm that they are optimized □ Intraoperative and/or ■ Wake-up test perioperative imaging ☐ Consultation with a colleague (e.g. O-arm, fluoroscopy, x-ray) to evaluate implant ☐ Continue surgical procedure versus staging procedure placement □ IV steroid protocol: Methylprednisolone 30 mg/kg in first hr, then 5.4 mg/kg/hr for next 23 hrs Date of Revision: 2/26/2014

#### Attached to every:

- -OR circulator computer
- -IONM computer set-up

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