

DEPARTMENTAL POLICY/PROCEDURE

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1. Obtain Consent
2. Confirm Coagulation Status of Patient
3. Gather Supplies
 - a. Cranial Access Kit
 - b. Bolt/ICP Monitor Kit
 - c. Camino Monitor
 - d. Electric Razor
 - e. Silk Tape, 2 inch & 1 inch
 - f. Betadine Prep Solution & Tubs of Gauze
 - g. $\frac{3}{4}$ Drape for Patient
 - h. Hand Towel & 2 inch Tape (to make head roll for positioning)
 - i. Gown/Gloves/Eye Protection
 - j. Nurse to have any sedation/pain medications immediately available
 - k. Antibiotics
4. Position Patient
 - a. Supine, top of head at edge of bed
 - b. Place head on donut made from rolled up towel for stabilization
 - c. 2 inch tape across forehead, securing patient's head to bed
 - d. Adjust bed position so head is at an angle/level allowing ease of drilling (elevated ~20-30 degrees)
 - e. Adjust foot of bed so that legs elevated slightly so patient does not slide down in bed
5. View Imaging/Confirm Side of Placement
6. Shave either R or L Frontal Region
7. Mark Location for Bolt Placement
 - a. Make sure head is facing straight ahead, mark midline
 - b. Feel for the coronal suture & mark this
 - c. Measure 11 cm back from the nasion & 3 cm laterally, mark this (Kocher's Point)
 - d. Confirm that you are in line with the mid-pupillary line & are anterior to the coronal suture
8. Prep Patient: Betadine Soaked Gauze x 3
9. Open Cranial Access Kit at all supplies onto tray/table in sterile fashion
10. Put on sterile gown/gloves
11. Perform Timeout
12. Drape Patient: drapes in cranial access kit & $\frac{3}{4}$ drape
13. Confirm entry point that was marked, lay out all supplies/assemble drill
14. If using local anesthetic, inject now (included in cranial access kit)
15. Incision: centered over marked entry point, approximately 0.5cm in length
16. Drill: position drill orthogonal to skull and make burr hole without changing angle
 - a. Use smaller of two drill bits included in kit
17. Durotomy: Make small hole through dura using one of the needles in the kit

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18. Bolt attachment to skull
 - a. Remove small white spacer from bolt piece
 - b. Screw Camino bolt piece into skull (piece with turning wings and compression cap)
 - c. Remove inner stylet from the bolt after loosening white compression cap
19. Zero the Transducer
 - a. While remaining sterile, attach the black end of the transducer tipped catheter to the Camino monitor with the assistance of a nurse
 - b. Use the adjustment tool to zero the transducer prior to its insertion into the patient
20. Insert Transducer
 - a. Insert catheter with transducer tip until it extends approximately 0.5 cm beyond end of bolt, placing the tip in the subarachnoid space
 - b. Tighten the compression cap to secure the catheter in place
 - c. Slide sheath down over catheter & attach to compression cap
 - d. Verify Waveform
21. Dressing: Wrap Sterile gauze around base of bolt & secure with silk tape
22. Document Procedure

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