

Craniotomy x Tumor Excision

Indication	Tumor excision
Position	Supine with Right hand keep adducted Mayfield clamp
Scalp prep	Refer to scalp prep tray
Anae:	Remifentanyl x 2 Plain ETT NS with plain set, A-line, SCD, Foley insertion
LA infiltration (please LABEL)	Adrenaline (1:10,000) 10ml /amp x 1 10 ml Normal Saline x 2 amp 0.5% Levobupivacain 10 ml/vial x 1 3ml syringe x 1, 20ml luer lock syringe x 1, 21G needle x 1 Skin marker x 1, sterile stripes x labelling
Instruments	N001, N002a, N002b, N106, +/- N101, +/- N105, +/- N201, N301, N501, N503, N504, +/- N505a +/- N601a + N602b, N701 + T102 hose Esaote ultrasonic neuro probe
Supple Instruments	Perforator drive, plastic lamp handle x 2 4mm tumor holding forceps 1mm diamond dust tumor holding forceps
Consumables	Plain gauze, , mini raytec gauze, Folio drape 50x 50 cm x 4 Ioban 6640, neuro split drape Irrigation pouch 1016 Blade No.20, No.11 1@ Bulb syringe x 2, 20ml syringe on blunt needle x 2 set Raney clip, Bone wax, Surgicel L, S 1@ Patties L, M, S 1@ 3/0 Vicryl CR needle (polysorb) Perforator (Codman), skull pin Dissecting tool-Neuro blade (F2/8TA23), +/-Twist drill (8TD116) Mic drape Telfa +specimen bottle (for specimen sending Frozen section) X-ray cover, camera cover + Tegaderm L x 2 (for U/S probe)
Sutures	3/0 Vicryl (dura closure) 2/0 Vicryl (scalp closure) Skin stapler (skin closure)
Remarks	After entry to dura, set ESU bipolar setting to 12

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Operating procedures:

1. GA 2. Positioning 3. Scalp preparation 4. Skin preparation 5. Draping
6. Incision
 - Skin
 - i. +/-Prepare: mini-raytec gauze 2 skin knife 2 Raney clip on applier OR Curve artery forceps 2 rubber band x 1 on every 4 A/F
 - Scalp
 - i. Monopolar to elevate the scalp flap 2 wet gauze to wrap around the flap 2 fish hooks + rubber band + st. artery forceps (to retract the scalp flap)
 - Periosteum
 - i. Periosteal elevator + monopolar (to mark the burr hole site)
 - Skull bone
 - i. Cranial perforator (to make burr hole) 2 prepare Penfield no.1 + gallipot to collect bone speck
 - ii. Neuro blade (F2/8TA23) cutting across burr hole to make a bone flap 2 use a wet gauze to wrap the bone flap and reserve for closure. Sometime, use twist drill (8TD116) to make small holes pending for closure.
 - Dura
 - i. Use twist drill (8TD116) or neuroblade (F2/8TA23) to make small holes around the bone flap site for applying anchoring stitch 2 prepare 3/0 polysorb (CR) + stripe shape surgical
 - ii. **Ready the patties tray with wet patties only after all the procedures involving bone drilling done**
 - iii. Open dura 2 dura hook (on left hand) + No.11 blade on BP handle (on right hand) 2 adson D/F tooth (on left hand) + dura scissors (on right hand) to cut the dura
 - iv. Prepare 3/0 polysorb (CR) + st. artery forceps for anchoring stitch
 - Removal of tumor
 - i. Hold tumor using tumor holding forceps
 - ii. Prepare a gallipot with half NS for collecting the specimen pending for histology and send the specimen in fresh if a/v at the end of operation
 - Send for frozen section
 - i. Prepare the specimen on a telfa and put it into a specimen bottle
7. Closing
 - Bone flap fix with screw and plate (N701 or AO plates), Dura close with 3/0 polysorb and scalp close with 2/0 vicryl and skin close with stapler. Use small cosmopore to cover.