Craniotomy x Tumor Excision

Indication	Tumor excision
Position	Supine with Right hand keep adducted
	Mayfield clamp
Scalp prep	Refer to scalp prep tray
Anae:	Remifentanly x 2
	Plain ETT  NS with plain set, A-line, SCD, Foley insertion
	Well plant see, it line, see, it oley insertion
LA infiltration	Adrenaline (1:10,000) 10ml /amp x 1
(please LABEL)	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	Perforator drive, plastic lamp handle x 2
Instruments	4mm tumor holding forceps
	1mm diamond dust tumor holding forceps
Consumables	Plain gauze, , mini raytec gauze, Folio drape 50x 50 cm x 4
	loban 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
1	Raney clip, Bone wax, Surgicel L, S 1@
	Patties L, M, S 1@
	Patties L, M, S 1@ 3/0 Vicryl CR needle (polysorb)
	Patties L, M, S 1@ 3/0 Vicryl CR needle (polysorb) Perforator (Codman), skull pin
	Patties L, M, S 1@ 3/0 Vicryl CR needle (polysorb) Perforator (Codman), skull pin Dissecting tool-Neuro blade (F2/8TA23), +/-Twist drill (8TD116)
	Patties L, M, S 1@ 3/0 Vicryl CR needle (polysorb) Perforator (Codman), skull pin
	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
Sutures	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)
Sutures	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)  3/0 Vicryl (dura closure) 2/0 Vicryl (scalp closure)
Sutures	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)  3/0 Vicryl (dura closure)

## **Operating procedures:**

1.	GA® 2. Positioning® 3. Scalp preparation® 4. Skin preparation® 5. Draping	
6.	Incision  ☐ Skin  i. +/-Prepare: mini-raytec gauze② skin knife② Raney clip on applier OR Curve artery forceps ② rubber band x 1 on every 4 A/F	
	<ul> <li>□ Scalp</li> <li>i. Monopolar to elevate the scalp flap② wet gauze to wrap around the flap② fish hooks rubber band + st. artery forceps (to retract the scalp flap)</li> </ul>	; +
	<ul><li>Periosteum</li><li>i. Periosteal elevator + monopolar (to mark the burr hole site)</li></ul>	
	<ul> <li>□ Skull bone         <ol> <li>Cranial perforator (to make burr hole) prepare Penfield no.1 + gallipot to collect bo speck</li> <li>Neuro blade (F2/8TA23) cutting across burr hole to make a bone flap use a wet gauto wrap the bone flap and reserve for closure. Sometime, use twist drill (8TD116) to make small holes pending for closure.</li> </ol> </li> </ul>	uze
	<ul> <li>Dura         <ol> <li>Use twist drill (8TD116) or neuroblade (F2/8TA23) to make small holes around the bone flap site for applying anchoring stitch? prepare 3/0 polysorb (CR) + stripe shap surgicel</li> <li>Ready the patties tray with wet patties only after all the procedures involving bon drilling done</li> <li>Open dura? dura hook (on left hand) + No.11 blade on BP handle (on right hand)? adson D/F tooth (on left hand) + dura scissors (on right hand) to cut the dura</li> <li>Prepare 3/0 polysorb (CR) + st. artery forceps for anchoring stitch</li> </ol> </li> <li>Removal of tumor         <ol> <li>Hold tumor using tumor holding forceps</li> <li>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</li> </ol> </li> </ul>	e
7.	<ul> <li>□ Send for frozen section         <ol> <li>i. Prepare the specimen on a telfa and put it into a specimen bottle</li> </ol> </li> <li>Closing         <ol> <li>□ Bone flap fix with screw and plate (N701 or AO plates), Dura close with 3/0 polysorb and</li> </ol> </li> </ul>	
	scalp close with 2/0 vicryl and skin close with stapler. Use small cosmopore to cover.	