SURGICAL TREATMENT

DatTim_SurgIC = Date and Time of Intracranial Surgery DatTim_SurgEC = Date and Time of Extracranial Surgery SurgTx_IC = Surgical Procedures Intracranial SurgTx_EC = Surgical Procedures Extracranial

1. CDE Variable	DatTim_SurgIC = Date and Time of Intracranial Surgery DatTim_SurgEC = Date and Time of Extracranial Surgery SurgTx_IC = Surgical Procedures Intracranial SurgTx_EC = Surgical Procedures Extracranial	
2. CDE Definition	Surgical Treatment is differentiated into cranial and extracranial surgery.	
3. Recommended	N/A.	
instrument for assessment		
4. Description of measure	Calendar/clock. Categorical; multiple entries possible.	
5. Permissible values	Date: DD-MMM-YYYY 99-999-9999 if unknown <u>Time</u> : HH-MM (24 hour clock) 99-99 if unknown	
	Cranial surgery codes	Extracranial surgery codes
	01: aneurysm (non	21: maxillofacial
	trauma)	22: extremity fracture lower
	02: acute SDH	limb (internal fixation)
	03: contusion	23: extremity fracture lower
	04: craniofacial surgery	limb (external fixation)
	05: CSF shunt	24: extremity fracture upper
	06: chronic SDH	limb (internal fixation)
	07: decompressive	25: extremity fracture upper
	craniectomy	limb (external fixation)
	08: depressed skull	26: fasciotomy
	fracture	27: laparotomy (abdomen)
	09: epidural hematoma	28: pelvic fracture (internal
	10: intracerebral	fixation)
	hematoma	29: pelvic fracture (external
	11: infection 12: optic nerve	fixation) 30: spinal
	decompression	stabilization/cervical
	13: posterior fossa	31: spinal
	surgery	stabilization/thoracic
	14: skull base fracture	32: spinal
	15: ventriculostomy for	stabilization/lumbar
	CSF drainage	33: thoracotomy
	16: debridement –	34: tracheostomy
	minimal for	25: vascular (operative)
	penetrating injuries	36: vascular (endovascular
	17: debridement -	treatment)
	extensive for	37: wound closure/graft
	penetrating injuries	38: other
	18: foreign body removal	

	19: bone flap replacement		
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	20: cranioplasty		
	21: other		
	Add + 5 to the first digit of surgery code to indicate		
	repeat procedure, e.g.: the first operation for an acute		
	SDH will be code 02, a second procedure for a recurrent		
	subdural 52.	·	
6. Classification:	Identical.		
Basic/Intermediate/Advanced			
7. Procedure	Document information on a continuing basis and		
	check/update on discharge/death from review of medical		
	charts.		

8. Comments/Special instructions:

This element is aimed to capture information on surgical procedures performed primarily from a therapeutic perspective. Implantation of a ventricular catheter or parenchymal catheter solely for the purpose of monitoring is not considered intracranial surgery. Likewise, percutaneous placement of a gastric tube (PEG), a chest tube or urinary catheter, is not considered extracranial surgery. Many patients undergoing surgery will have multiple procedures performed within the same session. For example, evacuation of an acute subdural hematoma may be combined with a decompressive craniectomy. Cranial and extracranial surgical procedures should be documented separately, even if they are performed within the same operative session. The element allows for entry of five cranial and five extracranial surgical sessions. If more entries are required, a second page can be added.

9. Rationale/justification:

Many TBI patients, particularly those with more moderate or severe injuries undergo surgical procedures. It is considered highly relevant to accurately document the timing and nature of these procedures for a number of reasons: *first*, for patients with intracranial hematomas, timely evacuation is an important parameter of the quality of health care delivery. *Second*, knowledge of the timing and nature of cranial procedures is essential to interpretation of ICP monitoring. *Third*, the necessity for late cranial surgery for evacuation of a mass lesion can be considered a surrogate for progressive brain damage and consequently may be considered as early endpoint in some specific situations. Extracranial procedures may cause episodes of lower blood pressure or oxygenation secondary to anaesthesia or blood loss and thus carries a potential to increase the risk of secondary brain damage.

In previous trials and studies, information on surgical procedures has typically been documented in free text format, thus often precluding any meaningful analysis. We therefore propose the use of a predefined categorical coding. These codings have been established from review of the most common procedures, entered as free text format in previous studies. As approaches to therapy however may change, these codes may require updating following future experience.

10. References:

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Recommended time for assessment:

On a continuing basis with final completion upon discharge/death.