EMERGENCY DEPT Table 2 Summary of

Table 2 Summary of management goals in TBI	
Systems	Management goals
Airway	Early tracheal intubation if GCS ≤ 8 or unable to maintain respiratory goals
Respiratory	Avoid hypoxia, maintain $Sa_{O_2} > 97\%$, $Pa_{O_2} > 11$ kPa
	Maintain a Pa _{CO₂} value of 4.5-5.0 kPa
	Hyperventilation, a Pa _{CO₂} value of 4.0-4.5 kPa reserved for impending herniation
CVS	Avoid hypotension, maintain MAP > 80 mm Hg
	Replace intravascular volume, avoid hypotonic and glucose-containing solutions
	Use blood as necessary, reverse existing coagulopathy
	Vasopressor agents as necessary to maintain CPP
Brain	Monitor ICP, avoid ICP > 20 mm Hg
	Maintain CPP > 60 mm Hg
	Adequate sedation and analgesia
	Hyperosmolar therapy, keep Na ⁺ < 155 mmol l ⁻¹ ,
	$P_{\rm osm} < 320 \; {\rm mosm} \; {\rm l}^{-1}$
	CSF drainage
	Treat seizures
	Barbiturate coma, decompressive craniectomy, hypothermia, all
	reserved for elevated ICP refractory to standard medical care
Metabolic	Monitor blood glucose, aim for blood glucose 6-10 mmol 1-1
	Avoid hyperthermia
	DVT thromboprophylaxis

CVS, cardiovascular; ICP, intracranial pressure; CPP, cerebral perfusion pressure; P_{osm} , plasma osmolarity; CSF, cerebrospinal fluid; DVT, deep vein thrombosis.

EMERGENCY DEPT

 ASSESS - GCS, pupils, localising signs, mechanism and timing of injuries, other injuries etc, ABG

 MONITORING - invasive arterial monitoring prior to induction if possible