

### Normal Values

Hb (g/L)	Normal: 70-100 Males: 135-180 Females: 115-160
Platelets (x10 <sup>9</sup> /L)	Normal: 140-400 Avoid P+V: <30 ?NP suction: <50-60 Weight lifting: >100
INR	Normal: 1 Heart Valves: 2.5-3.5 DVT/PE/AF: 2-3
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BP	90/60 - 140/90
MABP	70-105
CVP	5-15
SIRS Criteria	WCC: <4 or >12 Temp: <36 or >38 HR: >90 RR: >20 or PaCO <sub>2</sub> <32 SIRS: 2+/4 above Sepsis: SIRS+source infection Sepsis+: Sepsis+Org. Fail

### Neurological Values

ICP (mmHg)	0-15 TBI target <22
CPP	>60 CPP = MABP - ICP
Upper Motor Neuron Lesions	Weakness/Spasticity/Hyporeflexia/Primitive Reflexes Babinski sign
Lower Motor Neuron Lesions	Weakness/Hypotonia/Hyporeflexia/Atrophy Fasciculations

### Sedatives

Midazolam	Short acting, avoid due to delirium
Morphine / Fentanyl (Opiod)	Also analgesic
Propofol	Short acting, rapid onset of action, short term sedation
Dexmedetomidine	Used for pt who are difficult to wake due to agitation

### Inotropes/Vasopressor

Noradrenaline (mcg/kg-min)	Vasopressor (>0.1)
Adrenaline (mcg/kg-min)	Vasopressor + Isotrope (>0.1)
Dobutamine (mcg/kg-min)	Inotrope (5-10, >10 risk of arrhythmias)
Vasopressin (units)	Increases BP by increasing renal fluid resorption + peripheral vasoconstriction (0.01-0.04)

### MHI precautions

PEEP >10 +/- (FiO <sub>2</sub> >0.4)
Airborne or contact precautions
FiO <sub>2</sub> >0.7
Pulmonary compliance is low (compliance <40mL/cmH <sub>2</sub> O)
Pulmonary bull or lung abscess -> CXR

### MHI Contraindications

Highly infectious respiratory conditions
High frequency oscillating ventilation (HFOV)
Severe bronchospasm or gas trapping
Pneumothorax is present and is untreated (insertion of ICC)
Frank hemoptysis is present

### MHI - Resp Considerations

Patients WOB	Accessory muscle use Paradoxical breathing patterns
CVL insertion	Withhold MHI until CXR -> ptx
ICCs	Review swinging, bubbling and drainage prior/after rx
Broncho-pulmonary fistula	D/w ICU consultant

### MHI - Haemodynamics Considerations

Acute PE is present
BP is low (MABP<60) especially 1) labile BP 2) High vasopressor/inotropic 3) acute resuscitation phases of septic shock or hypovolemic states
New arrhythmia (ok if present + controlled)

### MHI - Neurological Considerations

ICP	Is it being monitored, caution when CPP/ICP is labile
Cerebral hemodynamics	Hypocapnia > vasoconstriction > dec. ICP Hypercapnia > vasodilation > inc. ICP
EVD	Should be clamped prior to MHI
Increase in ICP during MHI	Hyperventilate > hypocapnia > vasoconstriction > dec ICP

### Subjective Ax

Heart and lungs: PMHx
Post Op: nausea, vomiting, light-headedness, pain
Resp: cough, sputum, wheeze, SOB, smk hx
PLOF: aids, ex-tolerance/limitation, indoor/outdoor, falls
SHx: home setup, occupation, children, hobbies



### Objective Ax

Resp:	Cough, sputum, palpate, auscultation
Neuro:	Sensation (light touch, pain), power UMN: spasticity, babinski, clonus, hyperreflexia LMN: hypotonia, hyporeflexia, atrophy, fasciculations
MSK:	MMT, atrophy
Function:	Sitting balance, etc
Gait:	As appropriate
Circulation:	DVT, Cap refill

### Room Prep

Where are we going/what do we need	Chair, IV pole, sheet, aid, which side
Do we need to monitor	Yes/No - what do we need
Bed Space	Wires, chairs, drains
Attachments	Drains, monitoring, CVL, art line, EVD?, Femoral art line?



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