Emergency Department Useful References

Pretreatment

3 – 5 minutes prior to intubation

- o Fentanyl 3mcg / kg
 - for High ICP / Vascular (eg dissection) / preeclampsia or eclampsia with elevated BP
- Consider Lignocaine 1.5mg / kg
 - for High ICP / Vascular with elevated BP

Immediate "push dose" Inotrope or Vasopressor

- Adrenaline 10mcg/ml = 1:100000; dose 0.5-2ml (5-20mcg as required 1-5 minutely)
 - In 10ml syringe draw up 9ml normal saline; now draw up 1ml of 1:10000 adrenaline (from prefilled syringe) and shake = 1:100000.
 - o Label syringe "Adrenaline 10mcg/ml"; discard the other syringe.
- Metaraminol 0.5mg/ml; dose 1-2ml (0.5-1mg as required 2-5 minutely)
 - o In 20ml syringe draw up 19ml normal saline; now draw up 1ml of 10mg/ml Metaraminol and shake
 - Label syringe "Metaraminol 0.5mg/ml"

Intubation Drugs

	Drug	Normotensive dose	Normotensive dose in 70kg patient	Hypotensive dose	
SEDATION	Ketamine	2mg/kg	140mg	0.5mg/kg	
	Thiopentone	3-5mg/kg	300mg	0.5-1mg/kg	
· ·	Propofol	1.5-3mg/kg	150mg	0.2mg/kg	
PARALYSIS	Suxamethonium	1.5-2mg/kg	100mg	2mg/kg	
PARA	Rocuronium	For RSI 1.2mg/kg	85mg	1.6mg/kg	
	Sugammadex	16mg/kg reversal of rocuronium 2min post administration	1120mg As 100mg/ml solution In 2 or 5ml vials	16mg/kg	

Initial post intubation analgesia / sedation infusions

Infusion	Dose	Mixer	Bolus	Rate	Indication			
Morphine & Midazolam	50mg 50mg	50ml NS	0.05 ml/kg	0.05-0.1 ml / kg / hr 70kg adult = 5 ml / hr	Maintain analgesia & sedation			
Propofol	Propofol 500mg (50ml) m		0.5 mg / kg	20-30 mcg/kg/min 70kg adult = 10 ml / hr	Stable, with severe neurologic injury.			
Ketamine	200mg	50ml NS	0.5mg/kg	0.5mg/kg/hr 70kg adult = 9 ml / hr	Unstable			

Contraindications to Suxamethonium

- Malignant hyperthermia history
- Strokes with hemiparesis > 72 hours
- ICU stay > 2 weeks
- Burns / trauma > 72 hours
- NMJ disease
- Myopathies / Muscular dystrophies
- Hyperkalaemia (known or suspected)
- o Guillain-Barre
- Penetrating eye injury and acute glaucoma

Initial Ventilator Settings

Adjust as per clinical & ABG assessment Seek ICU advice if concerns

		Parameter	Normal lungs	со	VID	ARD	S / ALI	Asthma / CC		Metabolic Acidosis	Head Injury	Severe Obesity
		Aim	Lung protective strategy Do no harm	PEEP respon or CPAP may intubation. O prone positi	sive; HFNO y avert Consider	Recruitment, shunt reduction, avoid atelactatic trauma, achieve adequate oxygenation.		Oxygenation, adequate exhalation avoiding breath stacking and volutrauma		Ensure adequate respiratory rate to maintain and even improve compensation for metabolic acidosis	Avoid reduced venous return by avoiding high intrathoracic pressures	Avoid atelectasis and shunting due to obesity
ı	П	Position	20-30 degrees head up unless hypotensive and reduced cerebral perfusion a concern									
		Mode	VC (SIMV)	VC (SIMV)	PC (SIMV)	VC (SIMV)	PC (APRV equiv)	VC (SIMV)		VC (SIMV)	VC (SIMV)	VC (SIMV)
1	l	Vt (ml/kg) lean body weight	8 lbw	6-8 lbw	Monitor	6 lbw	Monitor	5-8 lbw		8-10 lbw	6-8 Ibw	8-10 lbw
	П	Resp rate	14	14	14	14	14	8-10		20-30	16	14
	ı	I:E ratio	1:2	1:2	1:2	2:1	2-4:1	1:4 - 1:5		1:1 - 1:2	1:2	1:1-2:1
	ı	Pinsp (cm H ₂ O)					25-30					
11	ı	PEEP (cm H ₂ O)	5	5-10	5-10	10-15	10-15	Asthma 0	COPD 5	5	5	10-15
l	FIO2 Start at 1,100% and rapidly litrate down, ideally achieving FIO ₂ , 0.4. Avoid significant hyperoxia. Generally aim for oxygen saturations 2.95%; pO ₂ >70. Aim pylat <30.											
		Other	Adjust parameters to ensure O ₂ and CO ₂ in normal limits	Titrate RR to CO ₂ . Late COVID of more ARDS i (higher PEEF Aim Pplat <3 May need to	may have a like pattern l, lower Vt). 10.	Aim Pplat <30; may need to lower Vt and accept higher CO ₂ If Pplat high reduce Vt 1ml/kg (min	Use Under ICU guidance. Minimise derecruitment ie minimise suctioning & disconnection	Watch for breath stacking and volu/barotrauma Consider permissive hypercapnosa. pH should > 7.15. May need to accept higher peak pressures in		Begin with high respiratory rate matching patient (<35). Titrate RR and TV as guided by serial arterial blood gases	Avoid high PEEP if possible. AIm PCO2 35-40. Tape rather than tie ETT to avoid impeding jugular vein flow	Minimise denecruitment ie minimize suctioning & disconnections

This checklist is for informational purposes only.

ALL information must be vetted with your clinical judgment, pharmacy and hospital committees & regulations