GUIDE FOR INITIAL SETTINGS FOR **PRESSURE CONTROLLED**VENTILATION FOR DRAEGER OXYLOG 3000 PLUS

Assumes patient is apnoeic from sedation & nursed at 30° to minimise aspiration.

Recommended for all UNCUFFED tubes

	LUNG PROTECTIVE STRATEGY (all other patients)	OBSTRUCTIVE STRATEGY (bronchiolitis/asthma)	
Mode	PC SIMV+	PC SIMV+	
VT	can't be set in PC mode- see Pinsp	can't be set in PC mode- see Pinsp	
RR	see chart- then titrate to normal pCO ₂ /pH	(1/3 normal RR)- see chart then examine EXPIRATORY FLOW CURVES- if breath stacking, ♥ ♥ RR by further 20% -permissive hypercapnoea (pH> 7.1)	
Pmax(alarm)	≥40 (if alarms, follow instructions below)	≥40 (if alarms, follow instructions below)	
FiO ₂	titrate using FiO ₂ /PEEP scale → SpO ₂ of 88-95% FiO ₂ 40 40 50 50 60 70 70 70 80 90	minimal FiO₂ for SpO₂ 88-95%	
PEEP	PEEP 5 8 8 10 10 10 12 14 14 14	5 (default)	
Pinsp	start at 20 then titrate to VT (6ml/kg IBW)- see chart	start at 20 then titrate to VT (6ml/kg IBW)- see chart	
I:E	1:1.5 (default)	≥1:4	
Slope	√ (default)	√(ie: fast inspiratory flow rate)	
Other	 if high PEEP results in ♥BP, give fluids & inotropes keeping SBP as per chart if P_{max} alarms, check for patient agitation/ tube obstruction. if not the cause, perform INSPIRATORY HOLD MANOEUVRE-if Pplat >30 ♥TV by 1ml/kg steps (min 4ml/kg) 	 sedate ++++, avoid ongoing paralysis if ♥♥BP + difficult to ventilate, disconnect tube & allow to expire stacked breaths if P_{max} alarms, check for patient agitation/ tube obstruction. if not the cause, perform INSPIRATORY HOLD MANOEUVRE-if Pplat >30 ♥TV by 1ml/kg steps (min 4ml/kg) 	

Further modifications depends on hourly ABGs and haemodynamics

Age/ IBW	RR (obstructive RR)	VT (6ml/kg)	Systolic BP
Term/ 3.5kg	40-60 (13-20)	20ml	≥ 50
3 months/ 6kg	30-50 (10-16)	36ml	≥ 50
6 months/8kg	30-50 (10-16)	48ml	≥ 60
1 year/ 10kg	30-40 (10-13)	60ml	≥ 65
2 years/ 13kg	20-30 (7-9)	78ml	≥ 65
4 years/ 15kg	20 (7)	90ml	≥ 70
6 years/ 20kg	16 (6)	120ml	≥ 75
8 years/ 25kg	16 (6)	150ml	≥ 80
10 years/ 30kg	16 (6)	180ml	≥ 85
12 years/ 40kg	16 (6)	240ml	≥ 90
14 years/ 50kg	16 (6)	300ml	≥ 90
17 years +/ 70kg	16 (6)	420ml	≥ 90

Other patients (i.e. modifications from LUNG PROCTECTIVE STRATEGY)

- HEAD INJURY: too much PEEP can

 BP and thus

 cerebral perfusion pressure. PEEP=5(default) is OK. 30° head up. Aim for low-normal CO₂
- METABOLIC ACIDOSIS: RR ≥ patient achieved, ETCO₂ ≤ patient achieved. Lighten sedation to allow patient to add additional breaths as required -add pressure support (Δsupp=10, Trigger=2) to these breaths as patient tired.

If patient is crashing....

- Take the ventilator out of the equation-bag the patient to feel how they are to ventilate
- Check the tube- displaced/ dislodged/ obstructed
- Check the patient- pneumothorax -bedside US/CXR and needle/finger thoracostomy
- Check the ventilator