

## ventilation targets

tidal volume	driving pressure (inspP - PEEP)	plateau pressure	FiO <sub>2</sub>	PEEP
<b>6 ml/kg PBW</b>	<b>≤ 15 cmH2O</b>	<b>≤ 30 cmH2O</b>	<b>≤ 0.6</b>	<b>aim high</b>

height in cm		150	155	160	165	170	175	180	185	190	195
men	tidal volume (ml)	290	315	340	370	400	420	450	480	505	530
women	tidal volume (ml)	260	290	315	340	370	400	420	450	480	505

lower PEEP - higher FiO <sub>2</sub>	FiO <sub>2</sub>	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.7	0.8	0.9	0.9	0.9	1.0
	PEEP (cmH2O)	5	5	8	8	10	10	10	12	14	14	14	16	18	18 - 24

higher PEEP - lower FiO <sub>2</sub>	FiO <sub>2</sub>	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5 - 0.8	0.8	0.9	1.0	1.0
	PEEP (cmH2O)	5	8	10	12	14	14	16	16	18	20	22	22	24

clinical practice:      compromised haemodynamics: go for lower PEEP!  
 obesity: go for higher PEEP and titrate according to compliance!

**Decrease FiO<sub>2</sub> first, then decrease PEEP!**

## ABG targets

PaO <sub>2</sub> <b>60-80 mmHg</b>	SaO <sub>2</sub> <b>90-94 %</b>	PaCO <sub>2</sub> <b>≤ 70 mmHg</b>	pH <b>≥ 7.2</b>
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## refractory hypoxia

PaO<sub>2</sub> / FiO<sub>2</sub> ratio ≤ **150 mmHg**  
 despite adequate PEEP and exclusion of other disorders



## prone positioning

**180°** better  
than 135°

**16 hours** prone  
**4 hours** break

expect  
**several**  
proning cycles

**prone positioning until:**  
PaO<sub>2</sub> / FiO<sub>2</sub> ratio in prone = in supine  
+ FiO<sub>2</sub> < 0.6

**PaO<sub>2</sub> / FiO<sub>2</sub> ratio < 80 mmHg despite proning: consider ECMO**

## refractory hypercapnia

- ✓ increase respiratory rate
- ✓ decrease dead space
- ✓ ECMO?

## other considerations

- 👏 no common paralysis
- 👏 no prophylactic antibiotics
- 👏 no common therapy with steroids
- 👏 no inverse ratio ventilation

**! strive for negative fluid balance !**