Assessing ventilation



How do I assess for adequate ventilation?

$\begin{tabular}{lllllllllllllllllllllllllllllllllll$				
RR15 breaths/minPEEP $5 \text{ cmH}_2\text{O}$ FiO2 100%	Initial s	Initial settings		
$\begin{array}{c} PEEP & 5 \ cmH_2O \\ FiO_2 & 100\% \end{array}$	V _T	400 mL		
FiO ₂ 100%	RR	15 breaths/min		
-	PEEP	5 cmH ₂ 0		
Flow 60 L/min	FiO ₂	100%		
	Flow	60 L/min		
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Initial settings		
VT	<u>400 mL</u>	
RR	15 breaths/min	
PEEP	5 cmH ₂ 0	
FiO ₂	100%	
Flow	60 L/min	
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Ventilation = Removal of CO ₂				
Minute ventilation				
= 400 mL x 15 breaths/min				
= 6 L/min \rightarrow	Is this adequate removal of CO ₂ ?	Ch		



Check PaCO₂ on ABG

ABG results (PaCO ₂)	Interpretation	Recommendation
35–45 mmHg	Acceptable range	Maintain settings
<35 mmHg	Hyperventilating	Decrease minute ventilation (V $_{\rm T}$ or RR)
>45 mmHg	Hypoventilating	Increase minute ventilation (V $_{\rm r}$ or RR)