

Ventilator

Indication: Patients who are apneic (e.g. cardiac arrest, respiratory arrest) and require ongoing assisted ventilation with BVM or after placement of an EGD or ETI.

If the patient is easy to ventilate with BVM, connect the ventilator as soon as possible.

PROCEDURE:

1. Attach oxygen source to the ventilator.
2. Attach ventilator circuit to the ventilator.
3. Turn on the ventilator and adjust initial settings (see below).
4. Attach the ventilator circuit to the ETI or EGD.
5. Monitor end-tidal capnography.
6. If applicable, position patient's head-of-bed to 30 degrees elevation or greater.
7. Titrate down FiO₂ to maintain SpO₂ between 90-95%. Avoid hyperoxia.

TROUBLESHOOTING:

- If the ventilator alarms or is unable to ventilate the patient, disconnect the ventilator and begin ventilating with a BVM.
 - While performing BVM ventilation, troubleshoot the ventilator:
 - **D**islodgement of the EGD/ETI
 - **O**bstruction or right-mainstem intubation
 - **P**neumothorax
 - **E**quipment Failure (e.g. connections, oxygen source)
- If the patient ventilates well with BVM, consider reconnecting the ventilator again.
- If the patient becomes hypotensive during ventilation:
 - Consider reducing PEEP.
 - Consider possibility of tension pneumothorax.
 - Consider reducing dosage of sedation / analgesia.
 - Consider addition of vasopressor.



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INITIAL SETTINGS:

During CPR:

- PEEP: 5cmH₂O
- FiO₂: 100%
- Respiratory Rate: 8 rpm
- Tidal Volume (6-8mL/kg of IBW): Reference chart
- Pressure Relief: MAX

If not performing CPR (or after ROSC):

- PEEP: 5cmH₂O
- FiO₂: 100%
- Respiratory Rate: 16 rpm
- Tidal Volume (6-8mL/kg of IBW): Reference chart
- Pressure Relief: 30cmH₂O



Height (ft/in)	Male IBW (kg)	Female IBW (kg)	AuraGain™ Size	King LTS-D™ Size	Approx Tidal Volume (6-8mL/kg)
4'0"	22	18	2.5	3	125mL
4'1"	25	20			150mL
4'2"	27	23			175mL
4'3"	29	25			200mL
4'4"	32	27	3	3	225mL
4'5"	34	29			250mL
4'6"	36	32			300mL
4'7"	39	34			350mL
4'8"	41	36	4	4	400mL
4'9"	43	39			450mL
4'10"	45	41			500mL
4'11"	48	43			550mL
5'0"	50	45	5	5	600mL
5'1"	52	48			
5'2"	55	50			
5'3"	57	52			
5'4"	59	55			
5'5"	61	57			
5'6"	64	59			
5'7"	66	62			
5'8"	68	64			
5'9"	71	66			
5'10"	73	68			
5'11"	75	71			
6'0"	77	73			
6'1"	80	75			
6'2"	82	78			
6'3"	84	80			
6'4"	87	82			
6'5"	89	84			
6'6"	91	87			

Tidal volumes and IBW based on ARDSNet Studies