Artificial ventilation management

Assessment of competences for ANP / ACP / SCP

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Please note: Practitioners can add DOPS, PBAs and CEXs as evidence.**

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|  | **NOT competent** | **Competent** | **Signature and date** |
| Artificial ventilation management |
| 1 | Ventilation* Describe the indications for invasive and non-invasive ventilator support
* Understand how to optimise patient’s respiratory function
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| 2 | Modes* SIMV – synchronised intermittent mandatory ventilation
* Set number of breaths at set tidal volume
* Allows patient to initiate breath
* Reduces barotrauma as synchronised
* PCV – pressure controlled ventilation
* Pre-set inspiratory pressure, RR and I:E ratio
* Breath is delivered until pressure is reached
* Appropriate in ARDS, pneumonia, rest settings
* BIPAP – biphasic positive airway pressure
* Variation of pressure controlled ventilation
* Permits spontaneous breathing not only during expiration but also during mandatory breaths
* Patient’s spontaneous breathing provides additional ventilation so that the extent of mechanical ventilation can be reduced and ventilation pressures lowered
* ASB – assisted synchronised breathing
* Allows the patient to trigger all breaths. When the patient inspires, the ventilator provides some pressure support to compensate for the increased work of breathing.
* Least aggressive of the ventilator modes
* CPAP – non-invasive ventilator support to prevent intubation or as weaning method
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| 3 | Optimising ventilation* PEEP
* Prevents alveolar collapse
* Improves oxygenation
* Aim for 5cm H2O before extubation
* Pressure support
* 10cm H2O
* Pressure during inspiration to help draw in a spontaneous breath
* Reduces the work of breathing
* I:E ratio
* Normal is 1:2
* Alter according to pathology/presentation
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| 4 | Safety aspects* Check position of ETT
* Check ventilator
* Plugged in to power, oxygen and air
* Safety test including calibration
* Ventilation care bundle
* VAP
* Mouth care
* 30–45 degree angle
* PPI and VTE
 |  |  |  |
| **Assessor’s comments**: |
|  |
| **This practitioner has completed these outcomes to the appropriate standard.****Assessor’s name:****Signature and date:** | **Practitioner’s signature:****Date:** |