

COPD Units of Learning

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| <p>Title of overarching NOS: HCS6 Perform a range of procedures to monitor/support physiological response to modify function, performance or therapy; CHS 225 Implement a treatment plan</p> | <p>Unit of learning to demonstrate competence: Carry out non-invasive ventilatory support</p> |
| <p>Details of the relationship between the unit to demonstrate competence and relevant national occupational standards (if appropriate)</p> | <p>Users will be able to demonstrate competence in performing non invasive ventilatory support function required within COPD and other respiratory diseases services</p> |
| <p>Outcomes: The individual will know and understand :</p> | <p>Assessment criteria To be competent the individual will be able to:</p> |
| <p>Indicative Level</p> | <p>Level 1 (Expert/specialist) Level 2 (Experienced practitioner) Level 3 (Novice new to respiratory disease management (including COPD))</p> |
| <p>How altered lung mechanics increase the work of breathing</p> | <p>Describe and clearly explain to the individual/carer how non invasive ventilation helps improve the levels of oxygen and reduce carbon dioxide in the blood</p> |
| <p>The application of non invasive ventilation for individuals with COPD and other respiratory diseases and the importance of gaining valid consent</p> | <p>Describe the operation and application of non invasive ventilation function</p> <p>Clearly explain and demonstrate how the equipment is set up and the interface requirements of the individual for its safe and effective use</p> <p>Describe the organisational policies and protocols for non invasive ventilation</p> <p>Obtain valid consent for the treatment from the individual or authorised third party</p> |

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| <p>The differences and application of bi-level positive air flow pressure (BIPAP) and continuous positive airway pressure (CPAP)</p> | <p>Clearly explain the differences and benefits of the prescribed BIPAP or CPAP to individuals with COPD and other respiratory diseases and/or associated sleep apnoea</p> <p>Work collaboratively with colleagues and the individual in the discussions for the prescribed option</p> <p>Highlight and resolve any potential complications for the individual/carer in their use</p> |
| <p>How to recognise when an individual with COPD and other respiratory diseases requires non invasive ventilation and how to assess the duration of treatment</p> | <p>Describe the clinical presentation of an individual with COPD and other respiratory diseases with breathing difficulties and the signs of successful ventilation</p> <p>Working collaboratively with the individual to detect their indicators for non invasive ventilation, demonstrate the steps required to recognise sudden breathing deterioration</p> |
| <p>The importance of operational checks on non invasive ventilatory support equipment and accessories</p> | <p>Describe your responsibility for the relevant equipment and/or devices checks</p> <p>Outline the expected threshold measurements for the non invasive ventilatory equipment</p> <p>Check the ventilatory equipment and accessories are fit for use</p> <p>Demonstrate how to recognise malfunction and where to seek assistance</p> |
| <p>The underpinning principles and operation of non invasive ventilation for the presenting condition</p> | <p>Describe and discuss the range of the equipment and masks for the individual and discuss options available with the individual/carer</p> <p>Select the appropriate equipment and mask, checking size and fit</p> <p>Clearly instruct the individual/carer on the correct techniques for using non invasive ventilation</p> <p>Demonstrate how the mask fits and how to check for a snug fit</p> <p>Link the individual to the equipment/mask in the correct manner</p> <p>Clearly explain the duration, frequency and type of monitoring and the requirements of the individual to achieve effective treatment</p> |

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| | <p>Highlight the importance of good non invasive ventilatory technique through discussions with the individual/carer</p> <p>Outline and explain to the individual/carer the most common problems individuals experience, check their understanding and answer any queries</p> <p>Operate the equipment in accordance with local guidelines, policies and protocols Check the air pressure of the ventilator machine and make appropriate adjustments</p> <p>Deliver the prescribed treatment plan in a safe manner in line with local and national guidelines, policies and protocols</p> <p>Correctly monitor the individual and record observations and data during the provision of non invasive ventilation</p> <p>Take appropriate action on the individuals clinical status in accordance with their management plan</p> |
| When and how to safely stop non invasive ventilation therapy | <p>Recognise the individual's signs and clinical condition of successful ventilatory support</p> <p>Describe the steps involved in the removal of the equipment and the management of the individual during this process</p> |
| Recognise the benefits of portable non invasive ventilation | <p>Reassure the individual/carer of the portability of non invasive ventilation and the benefits of this for their ongoing health and well being and in meeting their psychological, social and domiciliary needs</p> |
| The care and maintenance of non invasive ventilatory support | <p>Clearly instruct and demonstrate to the individual/carer the use and maintenance of prescribed portable and/or fixed compressor equipment, how to recognise malfunction and where to seek assistance</p> |
| Health, safety and infection control measures | <p>Work with the individual to apply the health and safety and infection control measures relevant to non invasive ventilatory support</p> <p>Ensure the individual/carer understands these requirements for non invasive ventilatory support in the domiciliary environment</p> |
| How to communicate in an effective manner | <p>Communicate in a manner that meets the individuals needs and respects dignity, confidentiality and values their contribution</p> |

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| How to handle information and maintain the confidentiality of records | Record information in line with organisational requirements and maintain the rights of individuals and principles of confidentiality |
| Know and understand the importance of liaising with working collaboratively with professional colleagues to manage individuals on non invasive ventilation in a timely manner | <p>Describe the referral criteria and pathways associated with the provision of non invasive ventilation</p> <p>Refer/ work collaboratively with professional colleagues when or if complications or issues arise during the implementation of non invasive ventilation equipment or whenever the procedure, data or area of expertise is outside your level of competence</p> |
| Endorsement of the unit by a sector or other appropriate body (if required) | COPD Strategy Group/DH England; respiratory education providers |