

COPD Units of Learning

<p>Title of overarching NOS: CHS55: Facilitate the individual's management of their condition and treatment plan CHS179: Advise on requirements for choice of therapeutic intervention</p>	<p>Unit of learning to demonstrate competence: Undertake a hypoxic challenge test (HCT)</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 safely undertaking a hypoxic challenge test to determine oxygen requirements for in flight oxygen for an individual with diagnosed COPD and/or other respiratory diseases</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)</p>
<p>The range of hypoxic challenge tests and associated equipment available within the organisation and their use in COPD and other respiratory disease management</p>	<p>Demonstrate an understanding of the range of different techniques i.e. hypoxic challenge test (HCT), walk tests, prediction equations available for determining oxygen requirements for in flight oxygen</p> <p>Demonstrate an understanding of the limitations of techniques</p>
<p>The requirements, policies and protocols for undertaking hypoxic challenge tests</p>	<p>Describe the requirements for hypoxic challenge tests</p> <p>Outline the importance of gaining consent for the assessment (if required locally)</p> <p>Confirm that the individual is aware of the potential adverse effects of performing hypoxic challenge testing and how risks are monitored during the test and any risk is minimised</p> <p>Demonstrate knowledge of pre testing requirements and contraindications for performing the hypoxic challenge test</p>

How to recognise when a COPD individual requires an assessment for a hypoxic challenge test	<p>Describe the symptoms and indicators for performing a hypoxic challenge test</p> <p>Demonstrate knowledge and understanding of the relevance of the individuals co-morbidities on the hypoxic challenge tests</p> <p>Clearly explain the benefits and limitations of hypoxic challenge tests to the individual/carer</p>
The range of information which should be made available to the individual regarding hypoxic challenge tests and how to obtain this written guidance in a format that will aid understanding and compliance	<p>Obtain the range of information related to the assessment for the individual and/or carer to aid understanding and compliance</p> <p>Clearly explain the expected and likely effects of the individuals condition and/or intended in flight oxygen treatment plans on their lifestyle, range of activities and limitations</p>
The intended outcomes of hypoxic challenge tests within COPD and other respiratory disease management	<p>Review evidence based research for hypoxic challenge tests within COPD and other respiratory disease management</p> <p>Recognise and justify the reasons for hypoxic challenge tests for the individual to assess their clinical requirements during air travel</p>
The expected and minimal measurements required for a hypoxic challenge test	<p>Perform the hypoxic challenge test according to local policies and protocols or national guidelines</p> <p>Set up equipment correctly to perform test procedure and deliver correct oxygen concentration</p> <p>Perform baseline (pre test) measurements (i.e. oximetry and /or blood gases)</p> <p>Take accurate and timely measurements to inform the hypoxic challenge test during the assessment as per protocol.</p> <p>Terminate testing if indicated</p> <p>Titrate oxygen levels if required</p> <p>Produce a comprehensive report of the assessment.</p> <p>Make recommendations from the available data on whether the individual with COPD and other respiratory diseases needs in flight oxygen or not</p>

<p>The range of interventions and assessment tools required to conduct a comprehensive assessment of need</p>	<p>Clearly explain to the individual with COPD and/or other respiratory diseases the recommendations for prescribed in flight oxygen and their suitable delivery devices for individuals during flight</p> <p>Evaluate the effectiveness of current oxygen therapy to meet the needs of individuals with COPD and other respiratory diseases during flight</p> <p>Clearly explain the assessment tests and equipment required</p> <p>Support the individual /carer during the assessment process</p> <p>Clearly explain the protocols for performing or not performing this test and their limitations on individuals with COPD and other respiratory diseases</p>
<p>The range of equipment, devices and accessories available to undertake hypoxic challenge tests</p>	<p>Identify and describe the common hypoxic challenge test techniques to determine the requirement for in-flight oxygen</p> <p>Identify the equipment required and describe its operational procedures</p> <p>Demonstrate health, safety and Infection Control</p>
<p>The importance of monitoring an individual during the assessment process</p>	<p>Take appropriate and timely action during the assessment process based on the individuals clinical status in accordance with their management plan and presenting situation</p>
<p>The rationale for when in flight oxygen is indicated and any contra-indications</p>	<p>Evaluate the potential efficacy and any contra- indications for planned in flight oxygen, given all available data</p> <p>Confirm that the individual and/or carer has been provided with and understands the education material on the use of in-flight oxygen</p>
<p>The risks and hazards of in-flight oxygen which may arise during the administration of oxygen and how you can minimise such risks</p>	<p>Undertake a risk assessment to assess the risks to the individual which need to be managed during the hypoxic challenge test</p> <p>Where in flight oxygen is indicated, ensure that the individual has details of the risks and hazards and who to contact should they be concerned about their condition</p>

The impact of social relationships and environment on the health and well-being of individuals	Clearly explain the effectiveness of in flight oxygen impact on the individual's life style and travel arrangements and check their understanding
Handle information and maintain records	Document key points of the hypoxic challenge tests and clearly identify any specific influencing factors Record information clearly and accurately in line with local protocols in a timely manner
The range and types of risk assessment required for hypoxic challenge tests	Explain the quality assurance and risk management mechanisms applicable Undertake a risk assessment
How to communicate in an effective manner	Communicate in a manner that meets the individuals needs and respects dignity, confidentiality and values their contribution
The importance of liaising with individuals/carers and colleagues	Present and discuss the outcomes of the hypoxic challenge tests with key stakeholders, external agencies, individuals/carers in a timely manner Agree a course of action with those responsible for prescribing/providing in flight oxygen Check the contact person is aware that they may be contacted when the individual receiving in flight oxygen experiences any worries or problems with their in flight oxygen Share the information on the prescribed in flight oxygen with the key contact so they can access relevant information to help resolve any issues regarding the individual's in flight oxygen
How, when and where to seek expert advice and assistance The importance of making appropriate and timely referrals	Identify where to seek expert advice and assistance Refer the requirements for in flight oxygen to appropriate personnel in a timely manner
Endorsement of the unit by a sector or other appropriate body (if required)	COPD Strategy Group/DH England; respiratory education providers