

COPD Units of Learning

<p>Title of overarching NOS: HCS 5 Investigate the structure function or performance of an organ or physiological system</p>	<p>Unit of learning to demonstrate competence: Static lung function measurements</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 static lung volumes required to accurately measure the size of the lungs of individuals with COPD and other respiratory diseases</p>
<p>Outcomes: The individual will know and understand:</p> <p>Indicative Level</p>	<p>Assessment criteria To be competent the individual will be able to:</p> <p>Level 1 (Expert/specialist) Level 2 (Experienced practitioner) Level 3 (Novice new to respiratory disease management (including COPD))</p>
<p>Respiratory disease and COPD and other respiratory diseases relevant to level of responsibility, scope of practice and according to NICE guidelines and professional codes of conduct</p>	<p>Describe how the stages of COPD and other respiratory diseases may affect lung capacity</p> <p>Outline the patho-physiology of lung disease and the stages of COPD and other respiratory diseases</p>
<p>Health, safety and infection control measures</p>	<p>Apply the health, safety and infection control measures throughout the procedure</p> <p>Carry out the approved procedures for regular cleaning and equipment maintenance</p> <p>Carry out the appropriate decontamination steps at the end of the procedure</p>

How to assess and monitor risk factors concerned with undertaking static lung measurements on individuals with diagnosed COPD and other respiratory diseases	Assess the risk to the individual which may result from static lung measurements
The frequency and use of performing static lung volume measurements and the procedures for doing so	<p>Check the individuals identity</p> <p>Explain the objectives of measuring lung capacity and the indications for the test to the individual/ carer and check their understanding</p> <p>Fully understand common measurements to be recorded (i.e. TLC, FRC, RV, VC, RV/TLC)</p> <p>Define and explain the common terms used in measuring lung size and capacity to the individual/carer in terms to achieve their understanding</p>
How to perform static lung measurements on individuals with COPD and other respiratory diseases	<p>Confirm the operational status of the selected measuring device and be able to explain the main principles of its operation</p> <p>Demonstrate practical and theoretical knowledge of equipment calibration and quality assurance</p> <p>Understand and apply the common techniques used to measure static lung volumes (i.e. Plethysmography, Gas Dilution) and describe the advantages and disadvantages of these techniques</p> <p>Follow the defined protocols in the correct sequence and time frame</p> <p>Demonstrate effective use of the equipment throughout the procedure</p> <p>Identify any contra indications during the static lung measurements and take appropriate and prompt action</p>

The expected static lung measurement ranges for adults and children and those for COPD and other respiratory diseases	Obtain and record acceptable measurements of static lung volumes sufficient to assist accurate assessment of an individuals lung size and capacity
How to interpret results within personal level of competence	<p>Correctly and accurately interpret the static lung data to determine the individual's lung measurements and capacity</p> <p>Use the appropriate selection of reference values to calculate normal reference values and ranges</p> <p>Take appropriate action based on the individuals needs and emerging data to optimise results and level of risk</p>
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
How to communicate effectively	<p>Communicate effectively with the individual prior to and during the procedure to aid their understanding and compliance to achieve high quality results</p> <p>Communicate effectively with professional colleagues in a timely manner, style and format to meet the needs of the individual</p>
Refer individuals to appropriate services	Seek advice and support from competent individuals whenever the procedure, data or area of expertise is outside your level of competence
Endorsement of the unit by a sector or other appropriate body (if required)	COPD Strategy Group/DH England; respiratory education providers