ARTP Masterclass Reporting Course Online

Venue: Online

Course Overview

The Association for Respiratory Physiologist and Technology (ARTP) Online Reporting Masterclass is aimed to provide an overview of lung function reporting. The course is designed to support the ARTP Practitioner professional examination providing the candidate with the underpinning knowledge required for reporting element of the exam.

Target Audience

- PTP graduates
- STP students
- Respiratory physiologists/scientists working at Bands 4-6 level
- Those wishing to undertake the Practitioner level ARTP examination
- Other professionals wishing to refresh or learn skills in reporting

Learning Outcomes

By the end of the course delegates will be able to:

- Understand the role and application of reference values and national and international guidelines.
- Have an understanding of lung anatomy, physiology and pathophysiology
- Perform standard reporting of full lung function testing, reversibility and spot check oximetry.
- Understand differences in paediatric lung function and reporting
- Understand the Practitioner/Clinical top up examination process and format.

Speakers:

Ryan Pettifer	Clinical Scientist, Coventry
Joe Madge	Respiratory Physiologist/Service Lead, Leicester
Marie Hardy	Clinical Scientist/Service lead, St Helen's

Course Support Team:

Administration	EBS
Support Faculty	Vicky Moore

Course Programme

Session	Time		
	08.30	**Introduction to Day**	**Marie Hardy**
1	08.40	Anatomy, Physiology and Pathophysiology Of The Lung	Ryan Pettifer
2	09.30	Normal Values	Ryan Pettifer
	10.10	Q&A	
	10.20	**Break**	
3	10.30	Spirometry Reporting	Marie Hardy
3	11.00	Lung Volumes Reporting	Marie Hardy
3	11.30	Gas Transfer Reporting	Ryan Pettifer
4	12.00	Lung function algorithm	Ryan Pettifer
	12.20	Q&A	Marie Hardy / Ryan Pettifer
	12.30	**Break**	
5	13.00	Paediatric Lung Function and Reporting	Joe Madge
6	13.45	IRCP – Practitioner/Clinical Top Up	Marie Hardy
	14.00	Q&A	Joe Madge / Marie Hardy
	14:10	**Break**	
7	14:20	Case Work Through Using Online Voting	Joe Madge / Ryan Pettifer / Marie Hardy
	15:20	Q&A	
	15:30	**Close**	

Session 1: ***Physiology and Pathophysiology of Lung Function Testing***

Aim of session: To understand the physiology that underpins measurement of lung function and pathophysiology that leads to abnormalities.

Learning Outcomes:

- Understand basic respiratory physiology and anatomy.
- Relate the measurements made during a lung function test to normal human physiology.
- Understand the pathophysiology of a range of respiratory disorders.
- Understand how the pathophysiology observed in a range of respiratory disorders affects lung function measurements.
- Understand the mode of action of bronchodilator agents and the advantages and disadvantages of methods of delivery.

Session 2: ***Normal Values***

Aim of session: To understand the role and application of reference values for the measurement of lung function.

Learning outcomes
At the end of the session the delegates will:

- Critically review the reference values available for predicting lung function across the age spectrum.
- Understand normal values, reference ranges and regression equations.
- Have an understanding of basic statistics e.g. mean values, normal distribution and standard deviation.
- Understand standardised residuals values (also known as Z-scores).
- Recognise factors affecting the use of reference values.
- Understand the appearance of lung function that us observed to be within the normal range and the limitations of using reference values to identify normality.

Session 3: ***Interpretive Reporting***

Aim of session: The workshop leaders will guide delegates through a practical session considering how full lung function results should be interpreted correctly.

Learning outcomes
At the end of the session the delegates will:

- Have a basic understanding on how to systematically approach a set of lung function test results.
- Understand how to define abnormalities by comparing results to the reference range and identifying patterns of abnormalities.

- Have a basic understanding of how to relate patterns of abnormalities observed during a lung function test to specific disease processes.

Session 4: ***Lung function algorithms***

Aim of session: To understand how to use lung function algorithms to help with deciding the overall outcome of the lung function results.

Learning outcomes
At the end of the session the delegates will:

- Have a basic understanding on how to systematically approach a set of lung function test results.
- Understand how to define abnormalities using algorithms.
- Have a basic understanding of how to relate patterns of abnormalities observed during a lung function test to a specific disease.

Session 5: ***Paediatric lung function testing and Reporting***

Aim of session: To understand the techniques for getting quality lung function measurements from children, the difference in guidelines and how to report paediatric lung function.

Learning outcomes
At the end of the session the delegates will:

- Be able to apply techniques to coach children to undertake lung function.
- Be knowledgeable in the differences in guidelines for paediatric lung function measurements.
- Understand the reference values used for paediatric lung function and how to apply them.
- Have a basic understanding on how to systematically approach a set of paediatric lung function test results.
- Understand how to define abnormalities in paediatric lung function by comparing results to the reference range and identifying patterns of abnormalities.

Session 6: ***Examination format and IRCP (Practitioner Level/Clinical Top Up)***

Aim of session: To understand the format and process of the ARTP examinations and the associated IRCP (practitioner level).

Learning outcomes
At the end of the session the delegates will:

- Understand the format of the ARTP associate and practitioner examinations.
- Be able to identify which level examination they need to enrol for.
- Understand the range of equipment available for examinations.
- Understand the process of examinations to include enrolment and deferral requirements.

- Understand the requirements of the IRCP.
- Be aware of the scheduling of examinations.

Session 7: ***Case based - lung function reporting***

Aim of session: The workshop involves the discussion of individual patient case studies.

Learning outcomes: At the end of the session the delegates will:

- Have a basic understanding on how to systematically approach a case from reviewing the patient's demographic details, medical and medication history and lung function test results.
- Have a basic understanding of how to relate the measurements made during a lung function test to the symptoms and signs of a range of respiratory disorders.