

5th King's John Price Paediatric Respiratory Conference, London

Bush House, 30 Aldwych, London WC2B 4BG

PRE-CONFERENCE WORKSHOP / MASTERCLASS (02.04.2019)

Measuring Spirometry in Children

This workshop is aimed to provide better understanding of performing and interpreting spirometry in Children.

Faculty:

Jane Kirby, Paediatric Respiratory Physiologist, Sheffield Children's Hospital
Emma Fettes, Paediatric Respiratory Physiologist, GOSH
Stephanie Rees, Paediatric Respiratory Physiologist, GOSH

This course will cover:

- Basic paediatric respiratory physiology
- Quality control and calibration of equipment
- Techniques for measurement of paediatric spirometry
- Overview of spirometry across the ages and the importance of measuring lung function throughout life
- Measurement of bronchodilator response
- Presentation and interpretation of results

Target Audience:

Nurses, CNS, physiotherapists, trainees, doctors.

Please note, this course is for a maximum of 25 delegates only. You must pre-book your place to attend on the day.

Duration:

1 day: 9am to 4.30pm

Learning outcomes:

After completing this course, you should:

- Understand what spirometry involves and its role in diagnosing and managing respiratory disorders in children and young adults.
- Be aware of the requirements for obtaining technically acceptable spirometry measurements and be able to identify poor patient technique.
- Be able to interpret spirometry results using appropriate reference data and differentiate between a restrictive and obstructive pattern.
- Understand how to perform bronchodilator reversibility studies and interpret results.
- Use of spirometry as per the new NICE guidance NG80 on asthma: diagnosis, monitoring and chronic management published in November 2017.

Programme:

9.00 – 9.05	Welcome and Introductions
9.05-10.15	<p>Overview of Paediatric Respiratory Physiology</p> <p>The aims of this session are:</p> <ul style="list-style-type: none"> • To have a basic understanding of the physiology underpinning lung function, in particular the flow-volume loop. • To understand the importance of lung growth and development and the impact this has on lung function • To appreciate why we measure lung function in children
10.15-10.45	<p>Set Up and Use of Spirometry Equipment</p> <p>The aims of this session are:</p> <ul style="list-style-type: none"> • To have an awareness of the different types of spirometers available and advantages/limitations of each device • Have knowledge on the set-up and maintenance of spirometry equipment • Understand the importance of regular calibrations • This session will include a brief practical session.
10:45	coffee
11.15-12.15	<p>Basics of Spirometry</p> <p>The aims of this session are:</p> <ul style="list-style-type: none"> • To understand the basic requirements prior to performing spirometry • To gain some practical experience in performing spirometry • To understand the importance of selecting technically acceptable measurements • Be able to identify unacceptable/erroneous results • This session will include a brief practical session.
12:15-13:15	Lunch
13.15 – 13:45	<p>Bronchodilator Response</p> <p>The aims of this session are:</p> <ul style="list-style-type: none"> • To understand when and why an assessment of bronchodilator responsiveness may be useful • To have knowledge of the different methods of administering bronchodilators and determining a positive response
13:45-14:45	<p>Interpretation of Spirometry</p> <p>The aims of this session are:</p> <ul style="list-style-type: none"> • To be aware of different pathological disorders and understand the difference between obstructive and restrictive respiratory defects • To understand the how to select and apply appropriate reference data • To use reference data to interpret results and ascertain if results are within the normal limits
14:45	coffee

15.15-16.15	Case Studies The final session will be series of case-studies for participants to interpret
16.15	Final questions Information on further training
17:00	Main Conference Opening Ceremony Main conference welcome presentations, poster walk and drinks reception