



Paediatric Spirometry Virtual Masterclass

Draft Programme

King's John Price Paediatric Respiratory
Conference

Wednesday 10th April 2024

9am - 5pm

Online

Faculty Members:

Rasheda Choudhury

Alice Byrne

Sophie Stimson

Shaira Hassan

Faiza Khan

Dr Muna Dahabreh

Overview:

This virtual **masterclass** will give attendees the opportunity to understand and learn how to perform quality assured spirometry and interpret spirometry results.

Morning sessions will cover the physiology of the lungs and the theory of how to perform spirometry followed by equipment demonstrations and virtual practical sessions. In the afternoon, you will gain a better understanding of how to identify errors in performing spirometry and the recommended methods of interpreting spirometry.

The masterclass will end with a case study presentation and an in depth presentation of how to attain the ARTP certification for the National ARTP Spirometry Register.

Target audience:

- Paediatric Respiratory Trainees
- Advanced Nurse Practitioners
- Paediatric Respiratory Nurses
- Paediatric Respiratory Consultants
- Specialist Nurses / CNS

Learning aims, objectives and outcomes:

- Introduction of spirometry as part of lung function testing
- An update on equipment preparation and clinical environment
- Understand how to perform quality assured spirometry on children
- Explore reference values and national recommendations
- Understand the importance of patient preparation; indications and contraindications of spirometry
- Provide practical skills on performing calibration and performing spirometry on children
- Explore and identify common errors in performing spirometry and how to rectify
- Understand how to perform bronchodilator response spirometry
- A discussion on interpretation and reporting
- An introduction to FeNO testing and reporting
- An update on how to register and attain certification for the National ARTP Spirometry Register

AGENDA

09.00	Welcome and Introductions <i>Rasheda Choudhury</i>
09.05	Overview of Paediatric Respiratory Physiology and Spirometry <i>Alice Byrne</i>
09.45	Equipment Preparation: Quality Assurance, Infection control and Clinical Environment <i>Rasheda Choudhury</i>
10.00	Calibration and Quality Control: Virtual Practical Session <i>Sophie Stimson</i>
10.30	Break
11.00	Reference Values <i>Rasheda Choudhury</i>
11.15	Patient preparation: Indications, Contraindications and Pre-Test Instructions <i>Alice Byrne</i>
11.30	Spirometry Testing: SVC and FVC, BioQC, Acceptability and Repeatability: Virtual Practical Session <i>Rasheda Choudhury and Sophie Stimson</i>
12.30	Lunch Break
13.30	Spirometry Errors and Troubleshooting <i>Shaira Hassan</i>
14.00	Post Spirometry: Bronchodilator Response <i>Alice Byrne</i>
14.15	Interpretation and Reporting: Percent predicted, LLN and Z-Scores <i>Rasheda Choudhury and Faiza Khan</i>
15.15	Break
15.45	FeNO Testing <i>Shaira Hassan</i>
16.00	Case Study Presentation <i>Dr Muna Dahabreh</i>
16.15	ARTP Accreditation and Certification <i>Rasheda Choudhury</i>
16.45	Questions and Answer Session
17.00	Masterclass Close

