

One-Day Pulmonary Function Workshop: *Wake Forest*

Agenda

Saturday - August 3rd, 2019

Time

8:00-8:15 am Welcome/Introductions

8:15-9:15 am Spirometry Made Easy

- Key Terms & Definitions
- Physiology
- Clinical Indications
- Clinical Contraindications
- Performance of Spirometry
- ATS/ERS Requirements
- Different Types of Hardware
- Different Types of Flow Device
- Calibration
- Infection Control
- Assessment of Test Quality and Result Reporting
- Acceptability Criteria
- Result Selection and Reporting

9:15-10:15 am Diffusing Capacity – The Basics

- Physiology of DLco Measurement
- How to Perform a Test
- ATS/ERS Guidelines for Standardization of Acceptability & Repeatability
- Quality Control

10:15-10:30 am BREAK

10:30-11:45 am Understanding Body Plethysmography (TGV & Raw)

- How a Plethysmograph Works
- Lung Volumes Measurements
- Airways Resistance Basics
- ATS/ERS Guidelines for Standardization

11:45 am-12:15 pm LUNCH

12:15-1:15 pm FOT: The Forced Oscillation Technique in Clinical Practice: Methodology, Recommendations and Future Developments

- Theory of Operation
- Technique
- Clinical Use of the Data

1:15-2:00 pm Quality Control - Why Do It?

- Accuracy vs. Precision
- Syringe QC
 - Daily Duties
 - Monthly Duties
 - Why/How to Perform
 - ATS/ERS Guidelines
- Biologic QC
 - Healthy Volunteers
 - Mean and Coefficient Variation
 - Linearity Checks

2:00-3:00 pm Getting Started with the New Bronchial Challenge Guidelines

- Goal of Various Challenge Tests
- Indications/Contraindications
- General Methods to Perform Testing
- Tidal Breathing for an Improved Methacholine Test. Change from PC20 to PD20