

8th Annual Montreal Oscillometry Summer Seminar

Oscillometry Unit, Centre for Innovative Medicine, and the Meakins-Christie Labs, MUHC-RI
McIntyre Medical Building, 3655 Promenade Sir-William-Osler, Montreal, July 18-19, 2024

Thursday July 18, 2024

9:00 h Moderator: Ron Dandurand, McGill University, Canada

Welcome to the Seminar

9:05 h Jeff Fredberg, Harvard School of Public Health, U.S.A. – **Virtual**

The mechano-inflammatory vicious circle: a new understanding of airway narrowing in asthma

9:24 h Nidhya Navanandan, University of Colorado, U.S.A.

Airwave oscillometry for assessment of asthma exacerbation severity and treatment response in the pediatric emergency department

9:43 h Marissa McIntosh, University of Iowa, U.S.A. - **Virtual**

Poorly controlled eosinophilic asthma: Relationships of airwave oscillometry with CT airway measurements

10:02 h Rachel Eddy, University of British Columbia, Canada - **Virtual**

Oscillometry to measure effects of cannabis smoking and vaping

10:21 h Coffee

Moderator: Chung-Wai Chow, University of Toronto, Canada

10:40 h Eric Garshick, VA Boston Healthcare System, Harvard Medical School, U.S.A.

Quantitative chest CT-defined structure and pulmonary function among US veterans deployed to Afghanistan and Iraq

11:00 h Silpa Krefft, University of Colorado, U.S.A. - **Virtual**

Making waves: Oscillometry in burn pit and deployment-exposed U.S. military veterans

11:20 h Ynuk Bossé & Magali Boucher, Laval University, Canada

A quick oscillometric method to measure airway distensibility in mice

11:40 h Richard Costello, Royal College of Surgeons in Ireland, Ireland - **Virtual**

Alan Kaplan, University of Toronto, Canada - **Virtual**

Janwillem Knocks, University of Groningen, Netherlands - **Virtual**

Obstacles to oscillometry deployment in routine practice: A round table discussion

Lunch 12:00 - 13:00 h



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Moderator: Larry Lands, McGill University, Canada

13:00 h Kate Hamlington Smith, University of Colorado Anschutz , U.S.A.

Respiratory phenotype characterization with oscillometry in wheezy preschoolers

13:20 h Laura Maria Grajeda, University of Guatemala, Guatemala - **Virtual**

Pulmonary oscillometry of Guatemalan preschool children from the Household Air Pollution Intervention Network Trial

13:40 h Misha Fotovati, McGill University, Canada

Oscillometry in adolescents living with obesity

14:00 h Dany Malaeb, McGill University, Canada

Measuring lung mechanics in patients with COPD using the handheld portable Rapid Expiratory Occlusion Monitor (REOM): A cross-sectional study

14:20 h Coffee

Moderator: Charlie Irvin, University of Vermont, U.S.A.

14:40 h Deborah Assayag, McGill University, Canada

Oscillometry and longitudinal change in lung function in patients with ILD

15:00 h Shin Furutaka, Nara Medical University, Japan - **Virtual**

Analysis of phase-shifted FOT parameters as an auxiliary diagnosis for IPF/UIP

15:20 h Roger Pang, McGill University, Canada - **Virtual**

Characterizing COPD using alpha-1 antitrypsin genotype, spirometry, and respiratory oscillometry

15:40 h Charlie Irvin, University of Vermont, U.S.A., for the LEAD Investigators

LEAD Study: 4-year follow-up: Making Oscillometry more approachable-the Power of Z

16:00 h Day 1 Catch up & wrap up

Networking Cocktail & Supper 17:00 h Thomson House, 3650 McTavish St.



MEAKINS
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Friday July 19, 2023

Moderator: Bryan Ross, McGill University, Canada

9:00 h Ron Dandurand, McGill University, Canada

Welcome back to the Seminar

9:05 h Jason Bates, University of Vermont, U.S.A.

Oscillometry during mechanical ventilation of the injured lung

9:24 h Andy Keymolen, Vrije Universiteit Brussel, Belgium

Longitudinal assessment of the respiratory mechanics of intubated patients on IMV during pressure support ventilation via low-frequency oscillometry

9:43 h Tadahisa Numakura, University of Toronto, Canada

Association of oscillometry abnormality with functional status and respiratory symptoms post-COVID

10:02 h Geoff Maksym, Dalhousie University, Canada

Oscillometry in long covid and quality control

10:21 h Coffee

Moderator: Geoff Maksym, Dalhousie University, Canada

10:40 h Zoltán Hantos, Semmelweis University, Hungary - **Virtual**

Oscillometry in infants: methodological aspects

11:00 h Yacine Marouf, University of Toronto, Canada

Impact of multi-frequency and sparse frequency oscillometry on derivation of AX values

11:20 Sára Németh, University of Szeged, Hungary – **Virtual**

Machine learning assessment of tidal expiratory flow limitation from intra-breath oscillometry data in obesity hypoventilation syndrome

11:40 h Botond Sipos, Semmelweis University, Hungary and University of Toronto - **Virtual**

Incidence of small airway dysfunction in a lung transplant follow-up study

12:00 Day 2 Wrap Up

Lunch 12:00 - 13:00 h

