

7th 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 27-28, 2023

Thursday July 27, 2023

Moderator: Ron Dandurand

9:00 h Ron Dandurand, McGill University, Canada

Welcome to the Seminar

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

Better than plethysmography: tracking TLC in patients using oscillometry

9:24 h Yi-Han Hsiao, National Yang Ming Chiao Tung University, Taiwan - **Virtual**

Using oscillometry to evaluate static lung hyperinflation in patients with severe asthma

9:43 h Silpa Krefft, University of Colorado, U.S.A.

Comparison of lung clearance index and oscillation testing in Southwest Asia deployed veterans with asthma

10:02 h Jason Bates, University of Vermont, U.S.A. - **Virtual**

Insights into the asthma of obesity provided by an anatomically based inverse model of lung impedance

10:21 h Coffee

Moderator: Jason Bates

10:40 h Azadeh Yadollahi, University of Toronto, Canada

Applications of oscillometry to assess small airway narrowing in persons with asthma and obstructive sleep apnea

11:00 h Misha Fotovati, McGill University, Canada

Assessing asthma control: a comparative analysis of spirometry and respiratory oscillometry

11:20 h Sarah Svenningsen, McMaster University, Canada - **Virtual**

Effects of dupilumab on airway oscillometry measurements in patients with moderate-to-severe asthma: a double-blind, randomised, placebo-controlled trial

11:40 h Patrick Donohue, University of Rochester, U.S.A.

Comparing oscillometry in inducible laryngeal obstruction to asthma

Lunch 12:00 - 13:00 h



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13:00 h Ramon Farré, University of Barcelona, Spain – **Virtual** Moderator: Charlie Irvin

A novel e-Health oscillometry approach: low-cost, open-source app-driven device

13:20 h Rajoshi Biswas, Cognita Labs, U.S.A. - **Virtual**

Home monitoring of chronic obstructive pulmonary disease using oscillometry: a feasibility pilot

13:40 h David Kaminsky, University of Vermont, U.S.A.

Sniffing the air and tickling the lungs: feasibility of monitoring the effects of indoor particulate exposure by home oscillometry in patients with COPD who heat their home with wood

14:00 h Ynuke Bossé & Magali Boucher, Laval University, Canada

Airway smooth muscle protects against hyperresponsiveness

14:20 h Coffee

Moderator: David Kaminsky

14:40 h Deborah Assayag, McGill University, Canada

Oscillometry in interstitial lung disease

15:00 h Phil Dormish, New York University, U.S.A. - **Virtual**

Differing respiratory mechanics uncovered by oscillometry in patients with COPD

15:20 h Paolo Medina, McGill University, Canada

Oscillometry in relation to spirometric impairment in adult cystic fibrosis

15:40 h h Charlie Irvin, University of Vermont, U.S.A.

Oscillometry performance in a large general population

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 28, 2023

Moderator: Chung-Wai Chow

9:00 h Ron Dandurand, McGill University, Canada

Welcome back to the Seminar

9:05 Sundeep Salvi, PURE Foundation, India - **Virtual**

Educating physicians about lung oscillometry in India: our experience with OMEGA (Oscillometry Training Program for Lung Diseases)

9:24 h Deesha Ghorpade, PURE Foundation, India - **Virtual**

Prevalence of small airways dysfunction as defined by R_{5-20} in the Indian asthmatic population

9:43 h Andy Keymolen, Vrije Universiteit Brussel, Belgium

Validation of a novel low-frequency oscillometric measurement functionality implemented in a mechanical ventilator

10:02 h Béla Suki, Boston University, U.S.A. - **Virtual**

Low frequency impedance during variable ventilation of human ARDS patients

10:21 h Coffee

Moderator: Geoff Maksym, Dalhousie University

10:40 h Rosaura Benítez Perez, Instituto Nacional de Enfermedades Respiratorias, Mexico - **Virtual**

Oscillometry from the ashes

11:00 h Zoltán Hantos, Semmelweis University, Hungary - **Virtual**

Intra-breath spectral oscillometry: strengths and limitations

11:20 h Chung-Wai Chow, University of Toronto, Canada

Monitoring of lung function post-lung transplant: An early indicator of graft injury

11:40 h Joyce Wu, University of Toronto, Canada

Case studies of oscillometry vs spirometry

12:00 Day 2 Wrap Up

Lunch 12:00 - 13:00 h

