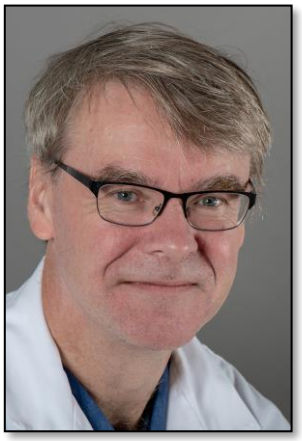
IDCCM Kavanagh Physiology Rounds

Tuesday January 20, 2026

4:00 pm - 5:00 pm

Theme: Applied Cardio-Respiratory Physiology

Clinical Application of the Right Ventricular Waveform in ICU Patients



André Y. Denault M.D
Professeur titulaire, Faculté de médecine de l'Université de Montréal
Département d'anesthésiologie et de médecine de la douleur (DAMD)
Département de pharmacologie et de physiologie
Directeur de l'enseignement de l'Institut de cardiologie de Montréal
Co-Directeur de la recherche et du programme de fellowship en échographie ciblée du DAMD

Douglas Slobod, M.D
Intensivist, Critical Care Medicine Program, McGill University Health Centre
Assistant Professor (Clinical), Department of Medicine, McGill University
Investigator, Translational Research in Respiratory Diseases Program,
McGill University Health Centre Research Institute

Objectives:

1. Identify the determinants and significance of the right ventricular pressure waveform
2. Develop a personalized approach to hemodynamic monitoring and management in patients with ARDS

Chair: TBD

How to join:

Join Zoom Meeting

https://ca01web.zoom.us/j/61338451514?pwd=byNlZQL1mqq1SpTNIFQAZjQbbSZV2B.1

Meeting ID: 613 3845 1514
Passcode: 081142

IDCCM Kavanagh Physiology Rounds

Tuesday March 31, 2026

4:00 pm - 5:00 pm

Theme: Applied Respiratory Physiology

Resuscitating Surfactant in ARDS: Past Limitations and Future Directions

Kevin Lee
Toronto General Hospital Research Institute
Medical Student, Faculty of Medicine
University of Ottawa

Richard Greendyk
Postdoctoral Researcher, Critical Care Medicine
Toronto General Hospital Research Institute

Objectives:

- To review surfactant physiology and pathophysiology in ARDS
- To understand the past trials of exogenous surfactant therapy in ARDS
- To understand, in the context of emerging research, novel ways to evaluate and potentially improve the efficacy of exogenous surfactant therapy in ARDS

Chair: Dr. Claudia Dos Santos

How to join:

Join Zoom Meeting
https://ca01web.zoom.us/j/63911207047?pwd=IUnXbapl4ezeLbcKx4e25zw874Ww6D.1

Meeting ID: 639 1120 7047
Passcode: 999388

IDCCM Kavanagh Physiology Rounds

Tuesday April 21, 2026
4:00 pm - 5:00 pm

Theme: Applied Respiratory Physiology

Respiratory-Brain Coupling in Mechanically Ventilated Patients: Insights and Implications

Jonne Doorduin, MD
Associate Professor, Department of Intensive Care
Radboud university medical center, the Netherlands

Objectives:

- Breathing as a Fundamental Rhythm of the Brain
- Disruption of Respiratory-Brain Coupling by Mechanical Ventilation
- Potential Implications for Ventilatory Management.

Chair: Dr. Gaspard Montandon

How to join:

Join Zoom Meeting
https://ca01web.zoom.us/j/63828270207?pwd=hbNmKjcaLRcquNizqgBa24DX48iZ70.1

Meeting ID: 638 2827 0207
Passcode: 348774

IDCCM Kavanagh Physiology Rounds

Tuesday May 26, 2026
4:00 pm - 5:00 pm

Theme: Applied Respiratory Physiology

Is Predicted Body Weight the Best Surrogate for Aerated Lung Volume?

Aartik Sarma, MD
Assistant Professor
Division of Pulmonology, Critical Care, Allergy, and Sleep Medicine
University of California San Francisco (UCSF)

Objectives:

1. Describe the limitations of predicted body weight as a surrogate for aerated lung volume and identify patient populations in whom PBW systematically overestimates lung size.

2. Explain how overestimation of lung volumes is associated with mortality, lung injury, and multiorgan dysfunction in mechanically ventilated patients.

Chair: TBD

How to join:

Join Zoom Meeting
https://ca01web.zoom.us/j/63771885729?pwd=9JNL1rXOBr7Cr1QS6oFxCm05KzZRHy.1

Meeting ID: 637 7188 5729
Passcode: 285559

IDCCM Kavanagh Physiology Rounds

Tuesday June 16, 2026
4:00 pm - 5:00 pm

Theme: Applied Respiratory Physiology

Pattern of Breathing After Cardiac Surgery: A Physiological Model of Sustained Breathing Effort Despite Diaphragm Dysfunction

Alice Grassi, MD
Assistant Professor, Department of Anesthesiology and Pain Medicine
University of Toronto

Objectives:

1. Describe the breathing pattern of patients after cardiac surgery as a model for sustainable breathing effort despite diaphragm dysfunction
2. Describe the use of expiratory muscles and their role in the context of diaphragm dysfunction
3. Explore clinical factors associated with expiratory muscle recruitment

Chair: Dr. Matteo Parotto

How to join:

Join Zoom Meeting
https://ca01web.zoom.us/j/66004375314?pwd=qvbxItZbEyZLyjhMyk17vJflcW77Hu.1

Meeting ID: 660 0437 5314
Passcode: 147130