

2,3,4 JUNE 2020 | Sheraton Centre
Toronto

MECHANICAL VENTILATION COURSE 2020

FROM **PHYSIOLOGY** TO **CLINICAL PRACTICE**



PRESENTED BY:
The Interdepartmental Division of Critical Care Medicine, University of Toronto



UNIVERSITY OF
TORONTO

Interdepartmental Division of
Critical Care Medicine



critical care
canada
FORUM

St. Michael's
Inspired Care.
Inspiring Science.



Monday, June 27, 2016

09:00 - 09:45

Equation of motion: pressures, volumes and flow
Laurent Brochard

09:55 - 10:25

Mechanical ventilation and the respiratory muscles
Ewan Goligher

10:25 - 10:45

BREAK

10:45 - 11:15

Spontaneous breathing under mechanical ventilation
Brian Kavanagh

11:20 - 11:50

Ventilator waveforms and patient-ventilator synchrony
Laurent Brochard

11:50 - 13:00

LUNCH BREAK

13:00 - 13:25

PEEP and lung recruitment
Ewan Goligher

13:30 - 14:00

Main modes of ventilation and ventilator settings
Niall Ferguson

14:05 - 14:30

Heart-lung interactions
John Granton

14:35 - 15:00	Ventilation and the brain Jeffrey Singh
15:05 - 15:35	Ventilator-induced lung injury Arthur Slutsky
15:35 - 15:50	BREAK
15:50 - 16:15	Gas exchange in clinical practice Lorenzo Del Sorbo
16:20 - 17:00	Interactive session on simulator: respiratory mechanics during volume and pressure ventilation Laurent Brochard
17:00 - 18:00	Welcome Reception

Tuesday, June 28, 2016

08:30 - 09:00	Determinants of inspiratory effort under mechanical ventilation Laurent Brochard
09:05 - 09:25	Proportional assist ventilation Laurent Brochard
09:30 - 10:00	Neurally adjusted ventilatory assist Jennifer Beck, Keenan Research Centre, St. Michael's Hospital
10:05 - 10:30	Extubation vs tracheotomy Damon Scales
10:30 - 10:45	BREAK
10:45 - 11:10	Testing the ability to be separated from mechanical ventilation Laurent Brochard
11:15 - 11:35	Difficult weaning: mechanisms and assessment Ewan Goligher
11:40 - 12:05	Long-term mechanical ventilation Louise Rose
12:05 - 13:00	LUNCH BREAK
13:00 - 13:30	Noninvasive ventilation technique and indications (including high flow) Laurent Brochard
13:35 - 13:55	Humidification, aerosols Laurent Brochard
14:00 - 14:25	Sedation for Mechanical Ventilation Sangeeta Mehta
14:30 - 17:00	Monitoring (I): Mechanics, lung recruitment Lu Chen
14:30 - 17:00	Monitoring (II): Bedside ultrasound

14:30 - 17:00

14:30 - 17:00

Wednesday, June 29, 2016

08:30 - 09:00

09:05 - 09:30

09:35 - 10:00

10:05 - 10:30

10:35 - 11:00

11:00 - 11:15

11:15 - 13:15

11:15 - 13:15

11:15 - 13:15

14:00

Alberto Goffi

Monitoring (III): Esophageal pressure, EAdi, EIT
Ewan Goligher

Monitoring (IV): Patient-ventilator synchrony
Laurent Brochard

ARDS: Berlin definition and clinical trials
Niall Ferguson

ARDS: recommendations for mechanical ventilation
Dr. John Laffey, St. Michael's Hospital

ARDS: from stiff lungs to baby lung, stress and strain
Laurent Brochard

ARDS: role for extracorporeal techniques
Niall Ferguson

Long-term outcomes after mechanical ventilation
Margaret Herridge

BREAK

Interactive case presentation: ARDS
Niall Ferguson

Interactive case presentation: COPD
Laurent Brochard

Interactive case presentation: difficult weaning
Ewan Goligher

END OF COURSE