ESICM LIVES 2020
PRAGUE
6-8 FEBRUARY
For physicians, nurses, and other allied healthcare professionals
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>13:30</td>
<td><strong>Introduction and Welcome to Prague</strong></td>
<td>Panorama Hall</td>
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<td>13:45</td>
<td><strong>Thematic Session</strong></td>
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<td>13:45</td>
<td><strong>The lungs</strong></td>
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<td>13:45</td>
<td><strong>Coffee break</strong></td>
<td>Zoom</td>
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<td>13:45</td>
<td><strong>The right ventricle and heart-lung interaction</strong></td>
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<td><strong>Break</strong></td>
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<tr>
<td>13:45</td>
<td><strong>Haemodynamics - Normal and artificial</strong></td>
<td>Panorama Hall</td>
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<td><strong>Thematic Session</strong></td>
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**Moderators:**
- J. Kesecioglu (Utrecht, Netherlands)
- V. Sramek (Brno, Czech Republic)
- A. Girbes (Amsterdam, Netherlands)
- F. Duska (Prague, Czech Republic)

**Thematic Session: The normal lung**
- 13:45 The normal lung: Three physiological concepts that I consider most important
  L. Heunks (Amsterdam, Netherlands)

**Thematic Session: The sick lung**
- 14:15 The sick lung: Three physiological concepts that I consider most useful at the bedside
  L. Gattinoni (Götingen, Germany)

**Thematic Session: Physiology of positive pressure ventilation**
- 14:45 Physiology of positive pressure ventilation
  T. Barnes (London, United Kingdom)

**Thematic Session: The right ventricle**
- 15:45 The right ventricle and heart-lung interaction
  M. Maggiorini (Zürich, Switzerland)

**Thematic Session: Venous return/pre-load**
- 16:15 Venous return/pre-load
  S. Price (London, United Kingdom)

**Thematic Session: The left ventricle and positive pressure ventilation**
- 17:00 The left ventricle and positive pressure ventilation
  A. Vieillard-Baron (Boulogne, France)
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<tr>
<td>17:30</td>
<td>VV and VA ECMO - How unphysiological can it be?</td>
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<td>L. Gattinoni (Göttingen, Germany)</td>
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<td>18:00</td>
<td>Easier set than understood</td>
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<td>Thematic Session</td>
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<td>Moderator: J. Takala (Bern, Switzerland)</td>
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<td>18:00</td>
<td>Case: How I will set the PEEP</td>
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<td>K. Jiroutkova (Prague, Czech Republic)</td>
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<td>18:03</td>
<td>Discussion</td>
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<td>L. Gattinoni (Göttingen, Germany), T. Barnes (London, United Kingdom), A. Vieillard-Baron (Boulogne, France)</td>
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<td>18:30</td>
<td>Networking Reception</td>
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<td>Break</td>
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**Thursday, Feb 6th**

**18:00 - 18:30**

**Easier set than understood**
Thematic Session

**Moderator:** J. Takala (Bern, Switzerland)

**18:00**

**Case: How I will set the PEEP**
K. Jiroutkova (Prague, Czech Republic)

**18:03**

**Discussion**
L. Gattinoni (Göttingen, Germany), T. Barnes (London, United Kingdom), A. Vieillard-Baron (Boulogne, France)
### Friday 7 February

#### 08:30 - 09:30
**Gas exchange and microcirculation**

**Thematic Session**

Moderator: J. Kesecioglu (Utrecht, Netherlands)

**08:30**  
Transport of blood gases, Haldane’s effect and clinical application  
J. Takala (Bern, Switzerland)

**09:00**  
The physiology of the classical and non-classical angiotensin II system and its relevance to critical illness  
R. Bellomo (Heidelberg, Australia)

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#### 09:30 - 09:45
**Break**

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#### 09:45 - 10:45
**Homeostasis**

**Thematic Session**

Moderator: L. Gattinoni (Göttingen, Germany)

**09:45**  
Homeostasis I. Water and ions  
N. Van Regenmortel (Antwerp, Belgium)

**10:15**  
Homeostasis II. Acid-base  
F. Duska (Prague, Czech Republic)

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#### 10:45 - 11:15
**Coffee break**

**Break**

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#### 11:15 - 13:30
**From bench to bedside**

**Thematic Session**

Moderator: T. Barnes (London, United Kingdom)

**11:15**  
Basics of pharmacokinetics  
A. Girbes (Amsterdam, Netherlands)

**11:45**  
Demonstration of dosing in a model using Excel  
P. Elbers (Amsterdam, Netherlands)

**12:15**  
Using all this basic physiology knowledge in the treatment of sepsis  
M. Singer (London, United Kingdom)
12:45 Using all this basic physiology knowledge to prevent VILI  
D. Dreyfuss (Paris, France)

13:15 My comments on sepsis treatment and VILI prevention  
L. Gattinoni (Göttingen, Germany)

13:30 Lunch break

Fri 7 Feb  
13:30 - 14:15  
Panorama Hall + Club A / B+C / E + Zoom

Fri 7 Feb  
14:15 - 17:15  
Interactive rotations

14:15 Homeostasis and acid-base  
N. Van Regenmortel (Antwerp, Belgium) , P. Elbers (Amsterdam, Netherlands) , F. Duska (Prague, Czech Republic)

Haemodynamic focus  
M. Maggiorini (Zürich, Switzerland) , K. Jiroutkova (Prague, Czech Republic) , S. Price (London, United Kingdom)

Ventilation A  
L. Gattinoni (Göttingen, Germany) , M. Mlcek (Prague, Czech Republic) , E. Spinelli (Milan, Italy)

Ventilation B  
L. Heunks (Amsterdam, Netherlands) , H. de Vries (Amsterdam, Netherlands)

Meet the experts  
A. Girbes (Amsterdam, Netherlands) , R. Bellomo (Heidelberg, Australia)

Refreshment break

Fri 7 Feb  
17:15 - 18:00  
Panorama Hall

Fri 7 Feb  
17:15 - 18:00  
Wrap-up  
Panorama Hall

Moderators: T. Banes (London, United Kingdom) , J. Takala (Bern, Switzerland)

17:15 What I found striking to learn - Homeostasis  
N. Van Regenmortel (Antwerp, Belgium)

17:30 What I found striking to learn - Haemodynamics  
M. Singer (London, United Kingdom)

17:45 What I found striking to learn - Ventilator settings  
L. Heunks (Amsterdam, Netherlands)
Saturday 8 February

09:00 - 10:45  Cellular bioenergetics and extreme environments
Thematic Session
Panorama Hall

Moderators: D. Dreyfuss (Paris, France), F. Duska (Prague, Czech Republic)

09:00  Bioenergetic failure in critical illness
M. Singer (London, United Kingdom)

09:45  Comparative physiology
M. Maggiorini (Zürich, Switzerland)

10:30  Discussion

10:45 - 11:15  Coffee break
Break
Zoom

11:15 - 12:45  Point of view matters
Thematic Session
Panorama Hall

Moderators: J. Takala (Bern, Switzerland), M. Singer (London, United Kingdom)

11:15  I have a problem with RCTs
A. Girbes (Amsterdam, Netherlands)

11:45  I have a problem without RCTs and only physiology
R. Bellomo (Heidelberg, Australia)

12:15  How can we continue to make progress as a doctor and a scientist?
L. Gattinoni (Göttingen, Germany)

12:45 - 13:00  Final words, group photo and farewell
Thematic Session
Panorama Hall

Moderators: J. Kesecioglu (Utrecht, Netherlands), V. Sramek (Brno, Czech Republic), A. Girbes (Amsterdam, Netherlands), F. Duska (Prague, Czech Republic)