



**PRAGUE**

**6-8 FEBRUARY**

For physicians, nurses, and other  
allied healthcare professionals



ČESKÁ SPOLEČNOST  
INTENZIVNÍ MEDICÍNY

Thu 6 Feb  
13:30 - 13:45

### Introduction and Welcome to Prague

Thematic Session

Panorama Hall

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

Thu 6 Feb  
13:45 - 15:15

### The lungs

Thematic Session

Panorama Hall

Moderator : D. Dreyfuss (Paris, France)

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

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

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

Thu 6 Feb  
15:15 - 15:45

### Coffee break

Break

Zoom

Thu 6 Feb  
15:45 - 16:45

### Right ventricle

Thematic Session

Panorama Hall

Moderator : J. Takala (Bern, Switzerland)

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

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

Thu 6 Feb  
16:45 - 17:00

### Break

Break

Zoom

Thu 6 Feb  
17:00 - 18:00

### Haemodynamics - Normal and artificial

Thematic Session

Panorama Hall

Moderator : S. Price (London, United Kingdom)

17:00 **The left ventricle and positive pressure ventilation**  
A. Vieillard-Baron (Boulogne, France)

17:30 **VV and VA ECMO - How unphysiological can it be?**  
L. Gattinoni (Göttingen, Germany)

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Thu 6 Feb  
18:00 - 18:30

### Easier set than understood

Thematic Session

Panorama Hall

Moderator : J. Takala (Bern, Switzerland)

18:00 **Case: How I will set the PEEP**  
K. Jiroutkova (Prague, Czech Republic)

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18:03 **Discussion**  
L. Gattinoni (Göttingen, Germany) , T. Barnes (London, United Kingdom) , A. Vieillard-Baron (Boulogne, France)

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Thu 6 Feb  
18:30 - 19:30

### Networking Reception

Break

Zoom

Fri 7 Feb  
08:30 - 09:30

## Gas exchange and microcirculation

Thematic Session

Panorama Hall

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)

Fri 7 Feb  
09:30 - 09:45

## Break

Break

Zoom

Fri 7 Feb  
09:45 - 10:45

## Homeostasis

Thematic Session

Panorama Hall

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)

Fri 7 Feb  
10:45 - 11:15

## Coffee break

Break

Zoom

Fri 7 Feb  
11:15 - 13:30

## From bench to bedside

Thematic Session

Panorama Hall

Moderator : T. Bames (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)

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

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Fri 7 Feb  
13:30 - 14:15

### Lunch break

Break

Zoom

Fri 7 Feb  
14:15 - 17:15

### Interactive rotations

Thematic Session

Panorama Hall + Club A/ B+C / E + Zoom

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

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#### Haemodynamic focus

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

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#### Ventilation A

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

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#### Ventilation B

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

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#### Meet the experts

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

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#### Refreshment break

Fri 7 Feb  
17:15 - 18:00

### Wrap-up

Thematic Session

Panorama Hall

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

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

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

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

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Sat 8 Feb  
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**

Sat 8 Feb  
10:45 - 11:15

### Coffee break

Break

Zoom

Sat 8 Feb  
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)

Sat 8 Feb  
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)