# Wednesday, December 6, 2017

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08.30</td>
<td><strong>Introduction</strong>&lt;br&gt;J.L. Vincent (Brussels, Belgium) &amp; M.R. Pinsky (Pittsburgh, United States)</td>
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<td>08.35</td>
<td><strong>Static lung and chest wall mechanics</strong>&lt;br&gt;R. Naeije (Brussels, Belgium)</td>
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<td>09.10</td>
<td><strong>Esophageal pressure measurement</strong>&lt;br&gt;A. Pesenti (Milan, Italy)</td>
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<td>09.40</td>
<td><strong>Lung edema</strong>&lt;br&gt;R. Naeije (Brussels, Belgium)</td>
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<td>10.10</td>
<td><strong>Discussion</strong></td>
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<td>10.20</td>
<td><strong>Coffee break</strong></td>
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<td>10.45</td>
<td><strong>Gas exchange: basic aspects</strong>&lt;br&gt;R. Naeije (Brussels, Belgium)</td>
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<td>11.20</td>
<td><strong>Gas exchange: clinical applications</strong>&lt;br&gt;A. Pesenti (Milan, Italy)</td>
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<td>11.50</td>
<td><strong>PaO2/FiO2 in clinical practice</strong>&lt;br&gt;L. Brochard (Toronto, Canada)</td>
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<td>12.15</td>
<td><strong>Evaluation of lung and gas volume</strong>&lt;br&gt;A. Pesenti (Milan, Italy)</td>
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<td>12.55</td>
<td><strong>Discussion</strong></td>
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<td>13.10</td>
<td><strong>Lunch</strong></td>
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<td>14.00</td>
<td><strong>Lung mechanics: the equation of motion at the bedside</strong>&lt;br&gt;L. Brochard (Toronto, Canada)</td>
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<td>14.35</td>
<td><strong>Severe COPD – Auto PEEP</strong>&lt;br&gt;A. Pesenti (Milan, Italy)</td>
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<td>15.15</td>
<td><strong>Discussion</strong></td>
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<td>15.30</td>
<td><strong>Coffee break</strong></td>
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<td>16.00</td>
<td><strong>Ventilator-induced lung injury (VILI)</strong>&lt;br&gt;M.R. Pinsky (Pittsburgh, United States)</td>
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<td>16.30</td>
<td><strong>Lung protective strategies: A practical approach</strong>&lt;br&gt;L. Brochard (Toronto, Canada)</td>
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<td>17.00</td>
<td><strong>Discussion</strong></td>
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<td>17.10</td>
<td><strong>Clinical cases</strong></td>
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- Hypoxemia—J.L. Vincent (Brussels, Belgium)
- Lung mechanics – A. Pesenti (Milan, Italy)
- Respirator management – L. Brochard (Toronto, Canada)
- Severe COPD - M.R. Pinsky (Pittsburgh, United States)
Thursday 7, December, 2017

08.30  Pressure vs. Volume targeted mechanical ventilation
        L. Brochard (Toronto, Canada)

09.00  Physiological relevance of spontaneous breathing in the critically ill
        A. Pesenti (Milan, Italy)

09.30  Ventricular pump function: P/V loops
        M.R. Pinsky (Pittsburgh, United States)

10.00  Discussion

10.15  Coffee break

10.40  Acute pulmonary hypertension & right ventricular dysfunction
        R. Naeije (Brussels, Belgium)

11.10  The determinants of cardiac output
        J.L. Vincent (Brussels, Belgium)

11.45  Systemic blood pressure: Ventriculo-arterial coupling
        M.R. Pinsky (Pittsburgh, United States)

12.20  Discussion

12.30  Lunch

13.20  Venous return and effective circulating blood volume
        M.R. Pinsky (Pittsburgh, United States)

14.00  Cardiovascular alterations in sepsis
        J.L. Vincent (Brussels, Belgium)

14.40  Discussion

14.55  Coffee break

15.20  Heart-lung interactions
        M.R. Pinsky (Pittsburgh, United States)

16.00  Fluid responsiveness vs Fluid challenge
        J.L. Vincent (Brussels, Belgium)

16.40  Discussion

17.00  Clinical cases
        Right ventricular dysfunction - R. Naeije (Brussels, Belgium)
        Heart lung interactions - M.R. Pinsky (Pittsburgh, United States)
        Volume responsiveness – J.L. Vincent (Brussels, Belgium)
Friday, December 8, 2017

08.30  Blood flow distribution  
       M.R. Pinsky (Pittsburgh, United States)

09.15  Gas exchange and cardiovascular physiology in ECMO 
       A. Pesenti (Milan, Italy)

09.50  Oxygen delivery and consumption: $\text{SvO}_2$ & $\text{ScvO}_2$ 
       J.L. Vincent (Brussels, Belgium)

10.20  Discussion

10.35  Coffee break

11.05  Circulatory shock 
       J.L. Vincent (Brussels, Belgium)

11.50  Microcirculatory studies in humans 
       F. Taccone (Brussels, Belgium)

12.20  Assessment of tissue perfusion 
       J. Creteur (Brussels, Belgium)

12.55  Discussion

13.10  Lunch

14.00  Type of vasoactive agents 
       J.L. Vincent (Brussels, Belgium)

14.35  Cerebral hemodynamics 
       F. Taccone (Brussels, Belgium)

15.05  Type of IV fluid 
       J.L. Vincent (Brussels, Belgium)

15.30  Discussion

15.40  Remaining questions

16.15  End of the meeting