Supplementary file 4. Results stratified by teaching and non-teaching center.

The image number corresponds to the question number of the questionnaire in the supplementary file 1.
2. Tidal Volume used to ventilate during surgery

- Teaching:
  - 6 ml/kg: 30%
  - 8 ml/kg: 21%
  - 7 ml/kg: 19%
  - 9-10 ml/kg: 11%
  - Unknown: 26%

- Non Teaching:
  - 6 ml/kg: 30%
  - 8 ml/kg: 26%
  - 7 ml/kg: 18%
  - 9-10 ml/kg: 26%
  - Unknown: 26%

3. Is the tidal volume generally calculated on the ideal weight or on the actual weight?

- Teaching:
  - Ideal weight: 51%
  - Real weight: 44%
  - Unknown: 5%

- Non Teaching:
  - Ideal weight: 37%
  - Real weight: 51%
  - Unknown: 12%
4. With what level of PEEP do you ventilate your patients on average?

- Teaching:
  - Zero: 9%
  - 5-10 cmH2O: 63%
  - 2-5 cmH2O: 19%
  - Unknown: 4%

- Non Teaching:
  - Zero: 15%
  - 5-10 cmH2O: 62%
  - 2-5 cmH2O: 19%
  - Unknown: 4%

5. Do you use any method to calculate a best PEEP during surgery?

- Teaching:
  - Yes: 19%
  - No: 81%
  - Unknown: 2%

- Non Teaching:
  - Yes: 19%
  - No: 79%
  - Unknown: 2%
7. Which FiO2 generally do you use during surgery?

- Teaching: 19% <50%, 56% 50-80%, 25% Unknown
- Non Teaching: 19% <50%, 46% 50-80%, 35% Unknown

8. Which FiO2 do you use at the weaning from cardiopulmonary bypass?

- Teaching: 19% <50%, 13% 50-80%, 64% >80%, 4% Unknown
- Non Teaching: 19% <50%, 11% 50-80%, 57% >80%, 13% Unknown
9. Which ventilation method used during the cardiopulmonary bypass?

- Teaching: 19% Unknown, 17% CPAP, 1% Continuation MV, 60% Stop Ventilation
- Non Teaching: 19% Unknown, 11% CPAP, 9% Continuation MV, 61% Stop Ventilation

10. If you continue ventilation during cardiopulmonary bypass, with which tidal volume?

- Teaching: 19% 2-3 ml/kg, 62% 3-5 ml/kg, 19% Unknown
- Non Teaching: 19% 2-3 ml/kg, 63% 3-5 ml/kg, 18% Unknown
11. If you continue ventilation during cardiopulmonary bypass, with which PEEP?

<table>
<thead>
<tr>
<th>PEEP Level</th>
<th>Teaching</th>
<th>Non Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zero</td>
<td>19%</td>
<td>19%</td>
</tr>
<tr>
<td>1-3 cmH2O</td>
<td>44%</td>
<td>22%</td>
</tr>
<tr>
<td>3-5 cmH2O</td>
<td>10%</td>
<td>31%</td>
</tr>
<tr>
<td>5-10 cmH2O</td>
<td>8%</td>
<td>15%</td>
</tr>
<tr>
<td>&gt;8 cmH2O</td>
<td>8%</td>
<td>11%</td>
</tr>
<tr>
<td>Unknown</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. If you use CPAP during cardiopulmonary bypass, what pressure level do you set?

<table>
<thead>
<tr>
<th>Pressure Level</th>
<th>Teaching</th>
<th>Non Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;5 cmH2O</td>
<td>16%</td>
<td>17%</td>
</tr>
<tr>
<td>5-8 cmH2O</td>
<td>5%</td>
<td>9%</td>
</tr>
<tr>
<td>&gt;8 cmH2O</td>
<td>50%</td>
<td>64%</td>
</tr>
<tr>
<td>Unknown</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
13. If you switch off the ventilator during cardiopulmonary bypass, do you disconnect the patient from the circuit?

<table>
<thead>
<tr>
<th>Number of answer</th>
<th>Teaching</th>
<th>Non Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>19%</td>
<td>19%</td>
</tr>
<tr>
<td>75%</td>
<td>56%</td>
<td>60%</td>
</tr>
<tr>
<td>50%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25%</td>
<td>25%</td>
<td>21%</td>
</tr>
<tr>
<td>0%</td>
<td>16%</td>
<td>34%</td>
</tr>
</tbody>
</table>

14. Do you perform recruitment maneuvers during surgery?

<table>
<thead>
<tr>
<th>Number of answer</th>
<th>Teaching</th>
<th>Non Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>19%</td>
<td>19%</td>
</tr>
<tr>
<td>75%</td>
<td>21%</td>
<td>18%</td>
</tr>
<tr>
<td>50%</td>
<td>60%</td>
<td>63%</td>
</tr>
<tr>
<td>25%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
15. If you perform recruitment maneuvers, with which mode?

- Teaching: 19% Unknown, 23% Increasing volumes/pressures, 58% Manual
- Non Teaching: 19% Unknown, 11% Increasing volumes/pressures, 70% Manual

Number of answer:
- Teaching: 14
- Non Teaching: 32

16. Do you give cortisone-based drugs routinely during surgery?

- Teaching: 19% Unknown, 64% Ideal weight, 17% Real weight, 9% Unknown
- Non Teaching: 19% Unknown, 72% Ideal weight, 9% Real weight, 9% Unknown
19. Do you apply a fast track protocol in your center?

- Teaching:
  - Yes: 51%
  - No: 30%
  - Unknown: 19%

- Non-Teaching:
  - Yes: 40%
  - No: 41%
  - Unknown: 19%

20. If you apply a fast track protocol, do you extubate the patients in the operating theater?

- Teaching:
  - Yes: 19%
  - No: 81%
  - Unknown: 10

- Non-Teaching:
  - Yes: 19%
  - No: 66%
  - Unknown: 15%
21. How do you ventilate patients during transport?

22. How do you ventilate patients during Intensive Care Unit stay after the neuromuscular blocking agent effect has finished?
23. Which tidal volume target do you have in post-operative Intensive Care Unit stay?

- Teaching
  - 6 ml/kg: 26%
  - 7 ml/kg: 34%
  - 8 ml/kg: 21%
  - 9-10 ml/kg: 13%
  - Unknown: 19%

- Non Teaching
  - 6 ml/kg: 18%
  - 7 ml/kg: 22%
  - 8 ml/kg: 28%
  - 9-10 ml/kg: 13%
  - Unknown: 19%

25. If you use PEEP in the post-operative, what value do you generally use?

- Teaching
  - 3-5 cmH2O: 47%
  - 6-8 cmH2O: 30%
  - 9-10 cmH2O: 4%
  - Unknown: 2%

- Non Teaching
  - 3-5 cmH2O: 57%
  - 6-8 cmH2O: 22%
  - 9-10 cmH2O: 2%
  - Unknown: 4%
26. Do you use a method to calculate the best PEEP during Intensive Care Unit stay?

- **Teaching**
  - Yes: 19%
  - No: 64%
  - Unknown: 17%

- **Non Teaching**
  - Yes: 19%
  - No: 62%
  - Unknown: 19%

27. Do you routinely carry out recruitment maneuvers before extubation?

- **Teaching**
  - Yes: 19%
  - No: 47%
  - Unknown: 34%

- **Non Teaching**
  - Yes: 19%
  - No: 41%
  - Unknown: 40%
28. Do you routinely perform measurements of respiratory mechanics before extubation?

<table>
<thead>
<tr>
<th></th>
<th>Teaching</th>
<th>Non Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>19%</td>
<td>19%</td>
</tr>
<tr>
<td>No</td>
<td>60%</td>
<td>63%</td>
</tr>
<tr>
<td>Unknown</td>
<td>21%</td>
<td>18%</td>
</tr>
</tbody>
</table>

30. In the case of fast track (if carried out), do you antagonize the neuromuscular blocking agent before extubation?

<table>
<thead>
<tr>
<th></th>
<th>Teaching</th>
<th>Non Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>19%</td>
<td>19%</td>
</tr>
<tr>
<td>No</td>
<td>51%</td>
<td>62%</td>
</tr>
<tr>
<td>Unknown</td>
<td>30%</td>
<td>19%</td>
</tr>
</tbody>
</table>
31. What drugs do you routinely use to antagonize the effects of neuromuscular blocking agent?

Number of answer:

<table>
<thead>
<tr>
<th></th>
<th>Teaching</th>
<th>Non Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neostigmina</td>
<td>19%</td>
<td>19%</td>
</tr>
<tr>
<td>Sugammadex</td>
<td>29%</td>
<td>27%</td>
</tr>
<tr>
<td>Unknown</td>
<td>52%</td>
<td>54%</td>
</tr>
</tbody>
</table>

32. Do you use non-invasive ventilation after discharge from intensive care unit?

<table>
<thead>
<tr>
<th></th>
<th>Teaching</th>
<th>Non Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown</td>
<td>19%</td>
<td>19%</td>
</tr>
<tr>
<td>No</td>
<td>21%</td>
<td>28%</td>
</tr>
<tr>
<td>Yes, only in complicated patients</td>
<td>39%</td>
<td>38%</td>
</tr>
<tr>
<td>Yes, in selected patients</td>
<td>21%</td>
<td>15%</td>
</tr>
</tbody>
</table>