Artificial intelligence and new technologies in Europe

Dear colleague,
this survey will require 5 minutes to complete; thank you for your time.

* Required

1. Please, provide your e-mail address:

2. Please, provide your age *

3. Please, provide your sex: *
   
   * Mark only one oval.
   
   ○ Female
   ○ Male
   ○ Prefer not to say

4. Years of work experience: *
   
   * Mark only one oval.
   
   ○ 1-5 years
   ○ 6-15 years
   ○ > 16 years
   ○ Resident doctor

5. Country where do you work? *

6. City where do you work? *


7. Please, Indicate the percentage of time of your working activity that you carry out in the following areas:

*Mark only one oval per row.*

<table>
<thead>
<tr>
<th></th>
<th>0%</th>
<th>0-25%</th>
<th>26-50%</th>
<th>51-75%</th>
<th>76-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anesthesia</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
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</tr>
<tr>
<td>Intensive care</td>
<td>□</td>
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<tr>
<td>Pain management</td>
<td>□</td>
<td>□</td>
<td>□</td>
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</tr>
</tbody>
</table>

8. Have you ever heard of Artificial Intelligence (AI) in general? *

*Mark only one oval.*

- □ Yes
- □ No

9. Have you ever heard of Machine Learning (ML)? *

*Mark only one oval.*

- □ Yes
- □ No
10. Have you heard of AI in medicine? *

Mark only one oval.

☐ Yes
☐ No

11. Have you ever heard of AI in Anesthesia? *

Mark only one oval.

☐ Yes
☐ No

12. Have you ever heard of AI in Intensive care unit (ICU)? *

Mark only one oval.

☐ Yes
☐ No

13. Have you ever heard of AI in Pain Medicine? *

Mark only one oval.

☐ Yes
☐ No

14. Have you ever heard of Machine Learning in Anesthesia? *

Mark only one oval.

☐ Yes
☐ No
15. Have you ever heard of Machine Learning in ICU? *
   
   Mark only one oval.
   
   ☐ Yes
   ☐ No

   
   Mark only one oval.
   
   ☐ Yes
   ☐ No

17. Have you ever read at least one article on AI / Machine Learning in Anesthesia, Intensive Care or Pain Medicine? *
   
   Mark only one oval.
   
   ☐ Yes
   ☐ No   Skip to question 20

18. Did you find it difficult to read? *
   
   Mark only one oval.
   
   ☐ Yes
   ☐ No   Skip to question 20

19. In which aspect did you find it most difficult? *
   
   Mark only one oval.
   
   ☐ Understanding of the methods
   ☐ Understanding of the results
   ☐ Evaluate its clinical usefulness
20. Would you employ a tool that uses an AI and / or Machine Learning algorithm? *

*Mark only one oval.*

- [ ] Yes
- [ ] No

21. Which of these reasons would / would be the main deterrent (s) to use an AI-based tool? (multiple choice) *

*Check all that apply.*

- [ ] Not enough knowledge on AI in general
- [ ] Lack of knowledge of the specific algorithm that leads to the result
- [ ] Still few validation studies available on this issue
- [ ] Legal and medical liability issues
- [ ] Other: ________________________________

22. Would you employ a score that uses an AI and / or Machine Learning algorithm? *

*Mark only one oval.*

- [ ] Yes  
  *Skip to question 24
- [ ] No
23. Which of these reasons would / would be the main deterrent (s) to use an AI-based tool? (multiple choice)

*Check all that apply.*

- [ ] Not enough knowledge on AI in general
- [ ] Lack of knowledge of the specific algorithm that leads to the result
- [ ] Still few validation studies available on this issue
- [ ] Legal and medical liability issues
- [ ] Other: __________________________________________________________________________

24. Do you think that training dedicated to the use of new AI and ML technologies in the anesthesiology field can lead to greater confidence in them?

*Mark only one oval.*

- [ ] Yes
- [ ] No

25. Do you think that training dedicated to the use of new AI and ML technologies in the anesthesiology field can lead to greater use of the same?

*Mark only one oval.*

- [ ] Yes
- [ ] No
26. Would you take an AI and / or ML course in Anesthesia, Intensive Care and/or Pain Medicine?  
Mark only one oval.  
☐ Yes  
☐ No

27. Do you think these technologies will improve your work in the future?  
Mark only one oval.  
☐ Much  
☐ Moderately  
☐ Little  
☐ Not at all

28. Do you think that in the future your work can be replaced by these new technologies?  
Mark only one oval.  
☐ Yes  
☐ No  
Skip to question 30

29. Please, specify why you think that in the future your work can be replaced by these new technologies:
30. Do you think that today it can be useful to invest in technologies based on AI and ML algorithms in anesthesia/intensive care/pain management?

*Mark only one oval.*

☐ Much  
☐ Moderately  
☐ Little  
☐ Not at all

31. What do you think could be the use of tools based on AI and ML algorithms in the anesthesia/intensive care/pain management world? (multiple choice)

*Check all that apply.*

☐ Prognostic models predicting mortality  
☐ Models of support for the doctor in therapeutic choices for the patient (clinical decision support system such as drug dosage adjustment, indications for the start of organ support therapy, etc)  
☐ Monitoring models integrated in computerized medical records able to provide real-time assessments of the risk of developing complications  
☐ Diagnostic support models (for example: imaging exam reporting, early diagnosis of sepsis, etc)  
☐ I don't think these models can be applied in clinical practice

32. How much do you think the ethical-legal issue affects the use of these technologies to date?

*Mark only one oval.*

☐ Much  
☐ Moderately  
☐ Little  
☐ Not at all
33. If the legislature were clearer in this regard, would you be more incentivized in using these technologies?  

Mark only one oval.

☐ Much
☐ Moderately
☐ Little
☐ Not at all

34. Have you ever heard of Telemedicine? *

Mark only one oval.

☐ Yes
☐ No

35. Have you ever heard of Telemedicine in anesthesia/intensive care/pain management? *

Mark only one oval.

☐ Yes
☐ No

36. What do you think could be the best use of telemedicine tools in the anesthesia/intensive care/pain management world? (multiple choice) *

Check all that apply.

☐ Televisit
☐ In-hospital tele-monitoring
☐ Out-of-hospital remote monitoring
☐ I do not know.
☐ Other: _____________________________________
37. Do you think that telemedicine tools could improve your work? *

*Mark only one oval.*

☐ Much
☐ Moderately
☐ Little
☐ Not at all

38. Do you think that telemedicine tools could offer benefits to patients? *

*Mark only one oval.*

☐ Yes
☐ No

39. Which of these advantages would / would be the main(s)? *

*Check all that apply.*

☐ Improve accessibility to care
☐ Implement monitoring systems
☐ Decrease the time spent in hospital
☐ Other: ____________________________________

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