

## Supplemental

**Supplementary table 1.** Baseline survey regarding residents' knowledge searching and indexing strategies

1	I am a medical resident in the Rennes subdivision
	Yes No
2	Number of validated semesters
	<i>Scrollable choice from 0 to 9</i>
3	What are the 3 pieces of information I look for most often?
	<i>Multiple choice, maximum 3 answers</i> An institutional protocol A Summary of Product Characteristics / dosage A telephone or fax number The protocol or results of a study A score or criteria for diagnosis, prognosis, severity, ... Recommendations from learned societies A guide for performing a technical procedure A slide show from a course I attended Other: ...
4	What are the 3 sources I consult most often?
	<i>Multiple choice, maximum 3 answers</i> My Seniors or Specialty Opinions My co-interns Articles Medical textbooks My personal notes Hospital intranet Online databases (Vidal®, UpToDate®, ...) A search engine on the Internet (like Google) to quickly find an answer or the resource I need. Other: ...

5	In my practice, in the course of a working day, I sometimes use to search for medical information:										
	<i>Never 0</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10 Often</i>
My smartphone											
A computer											
A notebook or a pocket book											

6	To index the knowledge I acquire during my residency, lessons or personal work, I use:
<i>Multiple choice</i>	
Only my memory	
A handwritten notebook that follows me every day	
Loose sheets of paper	
A USB key or equivalent to store notes, articles, protocols, etc.	
My Smartphone	
A computer	
I do not really have a strategy, it depends on the circumstances	
I am looking for an ideal support.	
Other: ...	

7	In my practice, during a working day, when I am looking for information :										
	<i>Never 0</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10 Often</i>
I take care to keep it so that I can quickly find it the next time											

8	I regularly use the "DansMaBlouse" application on my smartphone	
	Yes	No

**Supplementary table 2.** Application utilization survey

1	I am or have been an anaesthesia and intensive care resident in Rennes during the experiment (September 2018 - January 2019)
Yes	No

2	I tried the DansMaBlouse application.
Yes	No

If the answer to question 2 is "Yes"

3y	How often have you used the application?			
Never	Once or twice	3 to 10 times	More than 10 times	

4y					
	<i>Strongly disagree</i>	<i>Rather disagree</i>	<i>Neutral</i>	<i>Rather agree</i>	<i>Strongly agree</i>
	1	2	3	4	5
	I found the application easy to use				
	The application allowed me to access more easily shared knowledge (department protocol, bibliography, junior staff, directory, etc.)				
	The application allowed me to index knowledge so that I could find it efficiently				
	I think the application is a useful tool for anesthesiology and intensive care residents				
	I think the application will also be useful for me after my residency is over				

If the answer to question 2 is "No"

3n	Why have I never used the DansMaBlouse application?
<p><i>Multiple choices</i></p> <p>I have not heard of this application.</p> <p>I do not have a smartphone or can't install the application.</p> <p>I have another way of indexing knowledge (pocket book, other application, ...).</p> <p>I use other ways of accessing knowledge (intranet, protocol files, search engine, ...).</p> <p>I do not see the need for this application.</p> <p>I did not wish to participate in this study</p> <p>Other: ...</p>	

4n					
	<i>Strongly disagree</i>	<i>Rather disagree</i>	<i>Neutral</i>	<i>Rather agree</i>	<i>Strongly agree</i>
	1	2	3	4	5
	I think the application could have been useful to me if it had existed at the beginning of my residency				

5					
	<i>Strongly disagree</i>	<i>Rather disagree</i>	<i>Neutral</i>	<i>Rather agree</i>	<i>Strongly agree</i>
	1	2	3	4	5
	I think the application could have been more useful to me if it had been easier to use or if there had been more help in using it				
	I think the application could have been more useful to me if additional shared elements had been present or if additional functions had been added to it				