

Appendix B.

Pulmonology Serious Game Study Post-survey (Intervention Group)

What is your unique ID#

What is your overall impression of pulmonology as a specialty?

Very Uninteresting

Uninteresting

Somewhat Uninteresting

Neutral

Somewhat Interesting

Interesting

Very Interesting

What is your overall impression of interventional medicine?

Very Uninteresting

Uninteresting

Somewhat Uninteresting

Neutral

Somewhat Interesting

Interesting

Very Interesting

Please choose the level to which you agree or disagree with the following statements:

I am interested in the field of pulmonology.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

I am interested in the field of interventional medicine.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

I am familiar with the field of pulmonology.

Strongly Disagree

Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

I am familiar with the field of interventional medicine.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

I would like to pursue Pulmonology as a career choice.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

I would like to pursue interventional medicine as a career choice.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

I like the idea of using technology to enhance the current healthcare education experience.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

I think that medical education should make better use of new media technologies.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree

Strongly Agree

I feel that video games can have educational value.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

If app-based healthcare games helped to accomplish a goal that was important to me, I would use it even if I had to do that with my own time.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Please choose your level of confidence in the following scenarios:

How confident are you working in a team to care for a patient with pulmonary disease?

Very Unconfident

Unconfident

Somewhat Unconfident

Neutral

Somewhat Confident

Confident

Very Confident

How confident are you in recognizing pulmonary pathology?

Very Unconfident

Unconfident

Somewhat Unconfident

Neutral

Somewhat Confident

Confident

Very Confident

How confident are you in managing a patient with pulmonary disease?

Very Unconfident

Unconfident

Somewhat Unconfident

Neutral

Somewhat Confident

Confident

Very Confident

How confident are you using the equipment required to manage a patient with pulmonary disease?

Very Unconfident

Unconfident

Somewhat Unconfident

Neutral

Somewhat Confident

Confident

Very Confident

How confident are you in your ability to recognize the trachea and bronchi endoscopically?

Very Unconfident

Unconfident

Somewhat Unconfident

Neutral

Somewhat Confident

Confident

Very Confident

How confident are you in your ability to recognize a potentially cancerous mass endoscopically?

Very Unconfident

Unconfident

Somewhat Unconfident

Neutral

Somewhat Confident

Confident

Very Confident

How confident are you in your ability to recognize an airway obstruction endoscopically?

Very Unconfident

Unconfident

Somewhat Unconfident

Neutral

Somewhat Confident

Confident

Very Confident

How confident are you in your ability to recognize pulmonary pathology endoscopically?

Very Unconfident

Unconfident

Somewhat Unconfident

Neutral

Somewhat Confident

Confident

Very Confident

How confident are you in your ability to recognize a patient that should be referred to a pulmonologist?

Very Unconfident
Unconfident
Somewhat Unconfident
Neutral
Somewhat Confident
Confident
Very Confident

How interested are you in app-based healthcare games that realistically replicate the experience of what it's like to be in professional practice?

Very Uninterested
Uninterested
Somewhat Uninterested
Neutral
Somewhat Interested
Interested
Very Interested

An app-based healthcare game would be interesting to me if:

It was fun.
Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

It helped me to develop skill and comfort in patient interactions.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

It was part of a for-credit course.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

It let me overcome challenges in a group with my friends or classmates.

Strongly Disagree
Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Please choose the level to which you agree or disagree with the following statements:

I use computers on a daily basis.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

I use computers, consoles, and cell phones as a hobby.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

I mostly learn with books.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

I mostly learn from in-person (live) lectures.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

The material I learned in the Pulmonary block of MHD is relevant to my training as a physician.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

The material I learned in the Pulmonary block of MHD is relevant to my future career as a physician.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Using PulmEx helped me understand the material I was learning in Mechanisms of Human Disease (MHD).

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

The PulmEx modules were related to material I was learning in MHD.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

My overall impression of PulmEx is positive.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Using PulmEx is fun.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

PulmEx is easy to learn.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

PulmEx is easy to use.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

PulmEx taught me new knowledge.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

PulmEx prepares me for clinical practice.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

I would use PulmEx regularly.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Using PulmEx provided value to my medical education.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral
Somewhat Agree
Agree
Strongly Agree

The following questions are about your experience with PulmEx. In general, PulmEx:

Targets content at the appropriate level for me.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

Enhances my understanding of issues related to this topic.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

Addresses competencies identified by my course director.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

Provides fair and balanced information.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

Provides clear evidence in support of presented material.

Strongly Disagree
Disagree
Somewhat Disagree
Neutral
Somewhat Agree
Agree
Strongly Agree

Presents content that is difficult to access elsewhere.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Allows adequate opportunity for participant interaction.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Employs innovative teaching methods.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Provides an opportunity to assess what I have learned.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Presents material applicable to my future clinical practice.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Allows me to develop new skills applicable to my future practice.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Uses cases to illustrate application of content.

Strongly Disagree

Disagree

Somewhat Disagree

Neutral

Somewhat Agree

Agree

Strongly Agree

Please answer the following questions about your use of the PulmEx App:

Approximately how many cases did you complete during the study period?

0-4

5-8

9-12

13-16

17-20

21-24

25-28

29-32

33-36

37-40

41-44

more than 44

Was there any reason preventing you from completing more cases?

App wasn't working

Lack of interest

Lack of time

App was difficult to use

No

Other: