

**Medulator Comparison of Methods Study (MedCoMS)  
Post-study User Satisfaction Survey Results**

**Conducted by  
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**1. Please indicate your year at the time you participated in the Medulator or didactic lecture conference study.**

- a. PGY-1
- b. PGY-2
- c. PGY-3

year   participate   d	Freq.	Percent	Cum.	
a. PGY-1	43	45.74	45.74	
b. PGY-2	26	27.66	73.40	
c. PGY-3	24	25.53	98.94	
d. PGY-4	1	1.06	100.00	<- write-in response
Total	94	100.00		

**2. Indicate the branch of the study you participated in.**

- a. Medulator (Web-based didactic + Medulator virtual patient cases).
- b. Didactic lecture (classroom-based PowerPoint lecture).

branch of   study   participated   in	Freq.	Percent	Cum.
a. Medulator	58	61.70	61.70
b. Didactic	36	38.30	100.00
Total	94	100.00	

**3. Where did you use the Medulator course? (Only asked if in Medulator group)**

- a. Hospital
- b. Library
- c. Home
- d. Combination (Please indicate which \_\_\_\_\_)
- e. Other (Please indicate where you used the course \_\_\_\_\_)

where used the   Medulator   course	Freq.	Percent	Cum.
a. Hospital	17	29.31	29.31
b. Library	4	6.90	36.21
c. Home	33	56.90	93.10
d. Hosp & Home	4	6.90	100.00
Total	58	100.0	

**4. If a variety of topics were available, would you recommend Medulator to other Residents? (Only asked if in Medulator group)**

a. Yes

If yes, why? \_\_\_\_\_

b. No

If no, why not? \_\_\_\_\_

If variety   topics   available   would   recommend   to other   residents	Freq.	Percent	Cum.
a. Yes	49	87.50	87.50
b. No	7	12.50	100.00
Total	56	100.00	

**4a. If yes, why?**

Combining into underlying themes (possible multiple reasons listed by same resident)

Good feedback

easy to use, good feedback

Good review

Good review, clinically based and works with odd schedule

Clinically based

Good review, clinically based and works with odd schedule

Can do anytime

Good review, clinically based and works with odd schedule  
Easy, do anytime, high yield  
Available on your own time

Easy to follow

Easy to follow, work at own pace

Easy to use

easy to use, good feedback  
Easy, do anytime, high yield

Work at own pace

Easy to follow, work at own pace

Thorough

It was thorough, but convenient to use at home

Convenient to use at home

It was thorough, but convenient to use at home  
Home is convenient

### Effective case-based education

effective case based education  
Good interactive cases

### High yield

Easy, do anytime, high yield

It was easy to do at the time, convenient for me, could repeat if needed

Convenient

Ease of use, easily accessible

Nice combo of visual and audio aides

Good review, clinically based, and works with odd schedule

easy to use, can go at your own pace

Interactive, easy to use

Easier than driving in at night for a lecture

Can be done anytime

Can do whenever you have time

easy to use, helpful - like online teaching

Convenient, to extra time at work

Flexible, informative, can go back

do it on my time

Very easy - straight forward

Allowed me to do it on my own time

Interactive learning, able to use the knowledge immediately

Convenience

Good simulation of cases

Can take it when you want

because you can do it on our own time and at your pace

Felt it was an effective learning tool

You can work at your own speed

Available anywhere anytime

Good to real great

Interactive, I like the case presentation and physical exam content (heart sounds, etc)

Can complete in shorter amount of time

Effective

Can do at own time

Allows you to choose timing of lecture, though often aspects of modules were cumbersome (exam sounds)

Instant feedback

Ease of use in terms of accessibility and able to

Do at your own pace and time

Effective

### **4b. If no, why not?**

Combining into underlying themes (possible multiple reasons listed by same resident)

Too slow, could not advance through slides at my o

Couldn't get back to lecture part

it's easier to just read

Did not find it pleasant

Too long

Not my learning style

Time consuming due to technical difficulties

**5. How much practical knowledge did you gain from the Medulator course? (Only asked if in Medulator group)**

- a. A great deal
- b. Some practical knowledge
- c. A small bit
- d. None

How much practical knowledge gained from Medulator course	Freq.	Percent	Cum.
a. great deal	15	25.86	25.86
b. some practical knowledge	36	62.07	87.93
c. small bit	7	12.07	100.00
Total	58	100.00	

**6. Did you like the Medulator style web-based instruction? (Only asked if in Medulator group)**

- a. Yes

If Yes, why? \_\_\_\_\_

- b. No

If No, why not? \_\_\_\_\_

liked the Medulator style web-based instruction	Freq.	Percent	Cum.
a. Yes	51	89.47	89.47
b. No	6	10.53	100.00
Total	57	100.00	

**6a. If Yes, why?**

Combining into underlying themes (possible multiple reasons listed by same resident)

Interactive-case study. Questions difficult given you had to answer how they wanted you to before being able to move on.  
 work at own pace  
 You could repeat it as many times as possible  
 fun ordering labs, as before good feedback  
 Easy to use  
 but too slow (see #6)  
 do at my own pace  
 A good review, case based.  
 Easy to use, on own time  
 easy to use, can go at own pace, good evidence based stuff  
 arrange at convenient time for me  
 Convenient, learn at own speed  
 Ease of instruction  
 can do it at home  
 Fairly user-friendly  
 Can do it when have free time, though it can be distracting  
 I can take the course whenever  
 I like on-line learning  
 Adaptive to pace - go fast through easy and slow when I felt I needed more info.

easy to follow, interactive  
 easy to follow, interactive  
 Easy to use  
 Interactive learning, able to use the knowledge immediately  
 Questions, case presentations  
 Overall good approach, though it took me too long  
 Learned on own time  
 Clear, visual learning at own pace  
 Self-taught, visual aid, info in front of you, you  
 Felt it was an effective learning tool  
 I like the computer interactive learning  
 Case presentations and interactive management of cases  
 Easy to use  
 Able to work on my own time  
 Internet-based  
 clinical cases / correlation  
 I could do it at my own pace and on my own time  
 Nice to do on my own time, informative, but if you do not choose the exact treatment  
 regimen it takes a long time to get the next screen

## 6b. If No, why not?

Combining into underlying themes (possible multiple reasons listed by same resident)

Personal preference - I like the interaction of lectures better  
 too slow  
 Did not like having to type in assessment  
 I prefer lecture  
 Difficult to use - navigate  
 Too slow

## 7. What overall rating would you give the Medulator concept? (Only asked if in Medulator group)

- a. Excellent
- b. Good
- c. Average
- d. Poor
- e. Very Poor

Experienced technical problems with Medulator	Freq.	Percent	Cum.
a. excellent	11	18.97	18.97
b. good	39	67.24	86.21
c. average	7	12.07	98.28
d. poor	1	1.72	100.00
Total	58	100.00	

**8. How should computer-based individual learning programs such as Medulator be incorporated into a residency program?**

- a. Exclusive use of individual learning programs such as Medulator
- b. Mostly use of individual learning programs such as Medulator with occasional didactic lecture support.
- c. An equal distribution of individual learning programs such as Medulator and didactic lecture.
- d. Mostly didactic lecture with occasional use of individual learning programs such as Medulator.
- e. Exclusive use of didactic lectures.
- f. Other (Please explain) \_\_\_\_\_

How should computer-based individual learning be incorporated	branch of study participated in		Total
	a. Medula	b. Didact	
2. b) mostly individu	6	9	15
	10.34	25.71	16.13
3. c) equal distribut	26	15	41
	44.83	42.86	44.09
4. d) mostly didactic	23	11	34
	39.66	31.43	36.56
5 e) exclusive didact	1	0	1
	1.72	0.00	1.08
6 f) other	2	0	2
	3.45	0.00	2.15
Total	58	35	93
	100.00	100.00	100.00

Fisher's exact = 0.253