



ToolAuthoring Kit for Illustration of Procedures in Surgery (TIPS)

Trainee Evaluation CISE & Surgery

1. Is the interface natural or does it distract from the task of adrenal vein isolation?

distract 3 2 1 0 1 2 3 natural

2. Is the kit capable of conveying the key points procedure: safe fatty tissue removal and lifting of the adrenal vein?

no, not at all 3 2 1 0 1 2 3 yes, very well

3. Is the combination of media helpful in documenting the adrenalectomy?

- haptic

not at all helpful 3 2 1 0 1 2 3 very helpful

- visual 3D

not at all helpful 3 2 1 0 1 2 3 very helpful

- annotation: video, picture, sketch

not at all helpful 3 2 1 0 1 2 3 very helpful

4. Order the media in c) by their usefulness in conveying the **key safety issues** when removing the adrenal gland, anatomy orientation (removal of fatty tissue), procedure sequencing (complete removal of fatty tissue before lifting the adrenal vein) and developing judgment about branching decisions (in the case of hemorrhage).

____ haptic ____ visual 3D ____ annotation (____ audio)

5. Is the kit better or worse for illustrating adrenalectomy than the media you have been exposed to before such as:

- physical models

much worse 3 2 1 0 1 2 3 much better

- 1-on-1 teaching

much worse 3 2 1 0 1 2 3 much better

- medical atlases

much worse 3 2 1 0 1 2 3 much better

- CD-ROM collections

much worse 3 2 1 0 1 2 3 much better

6. Is authoring a procedure more or less effective than writing a detailed report on adrenalectomy?

less effective 3 2 1 0 1 2 3 more effective n/a

7. Do you feel more prepared to perform laparoscopic adrenalectomy now than you did before using the kit?

less effective 3 2 1 0 1 2 3 more effective n/a

8. Does the visual-haptic environment help understanding how aggressively to explore hidden anatomy?

less effective 3 2 1 0 1 2 3 more effective n/a

9. Does the visual-haptic environment help in learning procedure sequencing and developing judgment about branching decisions?

less effective 3 2 1 0 1 2 3 more effective n/a

10. If the kit is made available at your convenience, would you use it for refreshing knowledge?

less effective 3 2 1 0 1 2 3 more effective n/a

11. Prior to using TIPS: How many times have you used TIPS? ()

- Did you ever use a computer-based tool similar to this? If so, which?
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12. Any comments for TIPS?

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