# Supplemental Digital Appendix 1

Survey of 120 Johns Hopkins University School of Medicine Students in the Class of 2014 Regarding Their Use of the Hopkins Med Flashcards System, 2012

1. During your time in medical school, have you ever used flashcards, either electronically or paper-based, to study?

**Flashcard Question Banks**

The following questions will refer to the flashcards provided as Google spreadsheets on Hopkins Med Flashcards.

2. Have you EVER used the questions and answers provided as Google spreadsheets on Hopkins Med Flashcards?
3. Do you CURRENTLY use the questions and answers provided as Google spreadsheets on Hopkins Med Flashcards?
4. If you do NOT use the questions and answers provided as Google spreadsheets on Hopkins Med Flashcards, please select the option that most clearly reflects your reasons why:
   I was not aware they existed.
   I do not study with flashcards.
   I do not find the questions and answers helpful.
   Other (fill in).
5. What proportion of the tests have you used them for?
6. What is your best guess regarding how many days per week you use them?
7. How helpful do you find the flashcards in learning new material?
8. How helpful do you find the flashcards in retaining material?
9. How closely do the questions provided match what you believe are the take-home points from each lecture?
10. How helpful do you find the flashcards in improving your exam score?
11. How closely do you feel the flashcards mimic the difficulty of test questions?
12. How closely do you feel the flashcards mimic the content (breath) of test questions?
13. How likely are you to continue using the flashcards?
14. When you transition to the wards, how likely are you to use flashcards as a means to study, even if that means making your own?
15. Additional comments: Please let us know any additional thoughts you have regarding the flashcard question bank.

**Flashcard Software**

16. Are you comfortable using Microsoft Excel?
17. Are you comfortable using Microsoft PowerPoint?

18. Have you EVER used the flashcard software that Hopkins Medical Technology group wrote to run spreadsheets and PowerPoints as flashcards?
19. Do you CURRENTLY use the flashcards software that Hopkins Medical Technology group wrote to run spreadsheets and PowerPoints as flashcards?
20. If you do NOT use the flashcard software, please select the option that most closely reflects your reasons why:
    I do not study with flashcards.
    I study with paper flashcards.
    I study with electronic flashcards, but I use other software.
    Other (fill in).
21. Additional comments: Please let us know any additional thoughts you have regarding the flashcard software.