

## Supplemental Digital Appendix 2

### Qualitative Comments (From Course Evaluations) on the Springboard Videos Used in the Content Modules of a Preclinical Course on Microbiology, Immunology, and Infectious Diseases, Stanford University School of Medicine and University of Washington School of Medicine, January 2015–June 2016

Stanford Total n=32	n	Comments	University of Washington Total n=16	n	Comments
Overall satisfaction (value added)	13	1) The springboard videos were amazing. 2) The springboard videos are great. 3) The Springboard cases are the best! 4) I love the springboard sessions and often find these some of the more memorable parts of the modules. 5) Springboard videos were fine though. 6) The springboard and content videos were very well done. 7) I really liked the springboard videos. I thought they were clear and packed with information. 8) The springboard videos are good quality and worth keeping. 9) The springboard videos are great 10) Keep: The springboard videos and any opportunity to incorporate real cases into the interactive sessions are the absolute highlight of this style of teaching. 11) I think that the springboard videos are excellent and really enjoy watching them. 12) The springboard videos were helpful. 13) I loved the springboard/mini-videos & the problem sets associated with them weekly.		6	1) Springboard videos were fun and concise. 2) Springboard videos and content videos were incredible!!!! I really liked watching them. 3) Springboards are great. 4) The springboard videos were exceptionally well done as was the organization. 5) The springboard videos were beyond fantastic. 6) The Springboards and the UW faculty videos were done extremely well and the "Key Concepts" at the end of the UW faculty videos were the most helpful thing in the entire course.

Enhanced engagement (e.g., fun, get my attention to watch)	4	<p>1) The springboard videos were amazing. They are engaging, interesting, content packed and use the video format to provide a different way to learn. I loved them. The exciting part of a flipped classroom is the videos can use animation, graphics and visual tools to help students learn in a way that is inaccessible in a lecture.</p> <p>2) The springboards are always extremely compelling.</p> <p>3) I will say the Springboards usually spike my interest in the material, which is what I find valuable about them.</p> <p>4) The springboard video is interesting, but I don't think it helped me remember the material.</p>		0	
Enhanced learning and retention (e.g., help me understand things, connect things, remember)	5	<p>1) The springboard videos were amazing. They are engaging, interesting, content packed and use the video format to provide a different way to learn. I loved them.</p> <p>2) The springboard videos are great, they paint a clear clinical case and follows the same outline of information presentation each time (viral pathology vs host), I like that it focuses on patient's case</p> <p>3) Concerning the online materials, the springboard videos were my favorite. They had lots of information, presented things in a concise manner, and were aesthetically beautiful. The finally images were good review tools.</p> <p>4) On occasion, something from a springboard video will stick.</p> <p>5) I liked the springboard videos. I felt that having a patient to compare the microbiology modules to</p>		1	1) Springboards were also great because it gave me a story to jog my memory.

		aided in my learning. During the final, I actually remembered back to the patients presented in these videos and their symptoms.			
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Overall satisfaction: Comments suggesting no value added or neutral reaction to these videos	8	<p>1) In addition, I unfortunately don't find the springboard videos to be very useful for my learning. I think they are interesting and well done, I'm just not sure how much they contribute to my overall understanding of the material.</p> <p>2) Not very helpful and did not add to our understanding.</p> <p>3) The springboard video is interesting, but I don't think it helped me remember the material. I would rewatch the springboard video after every module, but when I recall information, I rarely remember the springboard video.</p> <p>4) Springboard videos did not add much to my understanding.</p> <p>5) I also think the springboard videos should be a bit more condensed and come at the end of the lectures.</p> <p>6) I didn't find the springboard videos all that useful in synthesizing points.</p> <p>7) Not very helpful and did not add to our understanding.</p> <p>8) The springboard video quality is pretty low.</p>		6	<p>1) Springboards were less helpful.</p> <p>2) The springboards were not helpful.</p> <p>3) The springboard videos.</p> <p>4) I also liked how the sessions were framed around an example with the springboards.</p> <p>5) Overall, good springboards and vodcasts for the most part.</p> <p>6) I noticed a level of subjectivity in the springboard videos when it came to underlying sociology/psychology, interpretations rendered which caused some students a level of offense--the example that comes to mind is the father selling the bed nets in the malaria springboard described with the (paraphrased) phrase "thought it was more important to sell the net than protect the family." Keep it neutral and let us draw conclusions!</p>
Comments describing technical difficulties with viewing	2	<p>1) Streaming online had much poorer resolution than the downloaded files (to the point where I couldn't read some of the material on the springboard videos), and having to watch on my browser made it difficult to have the slides and the video up at the same time for note-taking.</p>		0	

the springboards		2) It's a bit hard to read the bullet points. Also, most people skip the springboard video.			
Comments expressing that students opted not to watch the majority of the springboards	0			3	<p>1) The springboards were good but only really helpful if viewed after the rest of the videos. I only watched maybe 30% of the springboards.</p> <p>2) I often skipped the springboards.</p> <p>3) I didn't watch a single one of the springboard videos past the first day, what a waste of 10 minutes that I could use to watch the other 28 videos required for ONE DAY!!! Prefer a one long video.</p>