Supplemental Digital Appendix 2

Our Survey From the Development Process, as Well as Our Two Surveys Which Were Deployed During Our Program Evaluation

The Program Evaluation Survey Development & Deployment Process:

Survey Development

To construct this survey, two evaluation team members (TC, MH) examined previous surveys that had been created and used to evaluate local programming and digital transformations at McMaster University.

Based on these previous surveys, the present survey was also constructed bearing in mind the RE-AIM efficacy domain, which tends to emphasize the acceptability of a program to its participants. As such, many of the items focused on domains about the participants' or program leadership's experiences - rather than learning outcomes.

After deriving the survey items, the survey tool was created on Google Forms (Mountainview, CA, USA) piloted by two members of the ALiEM team. Please see Part A below for the full survey. They were asked to provide feedback about readability, usability and ease of completion. We asked these participants to time their completion of the form (which totalled 5 minutes max). Feedback from this pilot were incorporated into the final form, which is shown on the next page. The Program Leadership version of the survey was constructed based on this newly derived program evaluation tool. The only difference between the two forms was additional questions about the size of their program. Please see Part B below for this survey.

Survey Deployment

A short link for the Google Form was created and shared with participants across three modalities:
1) Slack message - The link was shared on each of the channels within Slack, and participants were asked to look out for the form and to complete the survey at the end of the live broadcast.
2) Email - An email was sent to each program's educational liaison for the ALiEM Connect event. The liaison (program director, assistant program director, or chief resident) were asked to share the email which invited participants to complete the evaluation survey. Following the email for general participants, the program liaison was also asked to complete the Program Director/Leadership version of the survey themselves.
3) Twitter - The participant survey was Tweeted 48 hours after the original email. This survey strategy was primarily used to poll individuals who were unable to attend synchronously, who engaged with us via the YouTube broadcast only. This also served as a reminder to all other participants who may not have answered the survey yet.

Supplemental digital content for Rose CC, Haas MRC, Yilmaz Y, et al. ALiEM Connect: Large-scale, interactive virtual residency programming in response to COVID-19. Acad Med.

Part A: ALiEM Connect - Program Evaluation Survey - Participant Survey
Thank you for participating in this program evaluation of our most recent ALiEM Connect session. We really appreciated your fulsome participation in the past day, and would like to now invite you to review your experiences so that we can continue to improve for the future.

As a warning, if you write really good quotes and we end up writing this up for publication as an education quality improvement project, you may be quoted directly (but without identifiers beyond your year of graduation and your current rank). All other data will be analyzed in aggregate. Submitting this form will be considered that you are consenting to participate in this program evaluation study.

* Required
Have you previously attended an ALiEM Connect Event? * [select one]
    No, I am new to ALiEM connect
    Yes, I participated last time via both Slack and Live-streaming.
    Yes, I asynchronously participated via the archived YouTube video last time.

Did you have access to the ALiEM Connect Slack? * [select one]
    Yes
    No

Demographics
For residents/faculty, what was the year you graduate medical school? For medical students, what is your anticipated graduation year? * [dropdown to select year]

What is the year of your birth * [free text for year]

Which statement best describes your present situation? *
    I am a medical student anticipated to graduate in 2020
    I am a medical student anticipated to graduate in 2021
    I am a PGY1 resident in a 3-year program
    I am a PGY2 resident in a 3-year program
    I am a PGY3 resident in a 3-year program
    I am a PGY1 resident in a 4-year program
    I am a PGY2 resident in a 4-year program
    I am a PGY3 resident in a 4- year program
    I am a PGY4 resident in a 4-year program
    I am completing a fellowship (e.g. medical education, ultrasound, etc..)
    I am a faculty member

Please select the closest descriptor to your pre-COVID-19 educational experience. *
    I was a core rotation medical student who would attend mandatory teaching sessions each week
        and also have shifts in the ED.
    I was a sub-intern who would attend optional teaching sessions and also have shifts in the ED
    I was a resident who had weekly conference and also have shifts in the ED
    I am a faculty member

What educational changes have occurred now since the beginning of the COVID-19 pandemic? *
Click all that apply
       My in-person classes have been cancelled
       My in-person classes have been changed to online video-conferencing
       My in-person classes have been changed to online asynchronous chat
       I have been withdrawn from clinical rotations
       I have been asked to graduate early and assist with pandemic response
       I have had my rotations rearranged so that I can be placed where I am needed the most
           (e.g. pulled from off-service rotations, brought back to EM rotations)
       My away elective rotations have been cancelled
       None of the above

Previous Technology Experience
Have you used Slack before? * [select one]
       Yes
       Sort of (but not for a very long time)
       No

Prior to this experience, on a scale of 1 to 7, how familiar were you with Slack? * [select from dropdown menu]
       7 - Extremely familiar, I would consider myself a Slack expert
       6
       5
       4 - Moderately familiar, I feel I would use it again easily
       3
       2
       1 - Totally unfamiliar, never used it before

NOW AFTER this experience, on a scale of 1 to 7, how familiar are you with Slack? * [select from dropdown menu]
       7 - Extremely familiar, I would consider myself a Slack expert
       6
       5
       4 - Moderately familiar, I feel I would use it again easily
       3
       2
       1 - Totally unfamiliar, never used it before

How did you use Slack? * [Select all that apply]
       Read other people's messages
       Posted my own commentary
       Emoji / like / react to a response
       Add others to the response
       Ask a question
       Use threads to reply

Direct message (individual)
Direct message (group)
Open a channel
Connect to apps

What other platforms have you used before? * [Select all that apply]
Microsoft Teams
Basecamp
Threads
Facebook Messenger
WhatsApp
Instagram
Twitter
GroupMe
Zoom
Skype
Google Hangouts Meet
Other:

Overall Experience

Overall did you enjoy the ALiEM Connect experience? * [select from dropdown menu]
7 - Loved it, I feel that this experience was amazing and should be interwoven throughout all EM education
6 - Enjoyed it, felt that things generally worked well
5 - Kinda enjoyed it, felt that there were things that we could have improved, but was okay overall
4 - Neutral
3 - Mildly disliked it, much room for improvement, and if fixed would be more enjoyable
2 - Pretty annoying, if this was not mandatory I would not have done it
1 - Totally hated it, if this was not mandatory I would not have done it, I would never do this again

Overall did you enjoy this Slack-based experience? * [select from dropdown menu]
7 - Loved it, I feel that this experience was amazing and should be interwoven throughout all EM education
6 - Enjoyed it, felt that things generally worked well
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1 - Totally hated it, if this was not mandatory I would not have done it, I would never do this again

How did this telecasted conference compare to your typical in-person conference/classroom experience? * [select from dropdown menu]

       7 - I highly preferred it, would prefer this to regular conference/sessions

       6 - I liked it compared to regular conference/sessions

       5 - It was marginally better than regular conference/sessions

       4 - Neutral

       3 - I didn't like it as much as regular conference/sessions

       2 - I disliked it compared to regular conference/sessions

       1 - I strongly disliked it, would never do this instead of regular conference/sessions

       Please provide any other insights on your experience.

Final Thoughts
Please provide any insights you have on your overall experience. [free text]

Part B: ALiEM Connect - Program Evaluation - Program Director/Leadership Survey
Thank you for participating in this program evaluation of our first ALiEM Connect session. We really appreciated your program's involvement and would like to ask you to take a few moments to help us better understand how this worked out for you. This is a Program Evaluation survey which is meant to help us improve this program for future programs and participants.

As a warning, if you write really good quotes and we end up writing this up for publication as an education quality improvement project, you may be quoted directly (but without identifiers beyond your year of graduation and your current rank). All other data will be analyzed in aggregate. Submitting this form will be considered that you are consenting to participate in this program evaluation study.

* Required

How many trainees are in your program? * [free form answer]

In which state are you located? * [select from dropdown menu]
        Select state from list or "other jurisdiction"

If you answered "Other" above, please clarify below: [free form answer]

Which statement best describes your present situation? * [select from dropdown menu]
        Program Director
        Associate or Assistant Program Director
        Curriculum Lead
        I am a core faculty member (not an APD or PD)
        I am a non-core faculty member
        I am completing a fellowship (e.g. medical education, ultrasound, etc.)
        Chief Resident

What educational changes have occurred now since the beginning of the COVID-19 pandemic? *
[Click all that apply]
        My in-person classes/conference have been cancelled
        My in-person classes/conference have been changed to online video-conferencing
        My in-person classes/conference have been changed to online asynchronous chat
        Medical students have been withdrawn from clinical rotations
        I have had to rearrange rotations so that we can fill our ED roster (e.g. ended off-service rotations, brought back trainees to EM rotations)
        Cancelled away elective rotations
        None of the above

Previous Technology Experience
Have you used Slack before? * [select one]
        Yes
        Sort of (but not for a very long time)

No

Prior to this experience, on a scale of 1 to 7, how familiar were you with Slack? * [select from dropdown menu]

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How did you use Slack? * [Select all that apply]

Read other people's messages
Posted my own commentary
Emoji / like / react to a response
Add others to the response
Ask a question
Use threads to reply
Direct message (individual)
Direct message (group)
Open a channel
Connect to apps

What other platforms have you used before? * [Select all that apply]

Microsoft Teams
Basecamp
Threads
Facebook Messenger
WhatsApp
Instagram
Twitter
GroupMe
Zoom

Skype
Google Hangouts Meet
Other:

Overall Experience

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Please provide any other insights on your experience.

Final Thoughts

Please provide any insights you have on your overall experience. [free text]