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## Supplemental Digital Appendix 2

### Pilot Needs Assessment (May 2020) - Google Forms

Hello! Thank you so much for your interest in participating with GMEC. Before we dive into tutorial sessions, we would love to hear more from the students we'll be partnering with in the coming weeks. Please take a couple of minutes to fill this out as best you can. We appreciate all of your input. Together, we hope to build a tutorial schedule that best meets your needs as a participant! Thank you so much for your help. - The GMEC Team

Email address: \_\_\_\_\_

Which medical school do you attend? \_\_\_\_\_

At what stage are you in your training?

*Year 1 medical student / Year 2 medical student / Year 3 medical student / Year 4 medical student / Year 5 medical student / Year 6 Medical Student*

How confident are you in your clinical reasoning skills?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*  
If possible, please elaborate on your answer above: \_\_\_\_\_

How confident are you in your ability to develop a differential diagnosis when given a chief complaint?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in your physical exam skills?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in tailoring your physical exam to your differential diagnosis? (i.e picking which standard maneuvers or special exam maneuvers to conduct)

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in your ability to determine the next diagnostic steps (labs, tests, imaging studies) once you develop a differential diagnosis?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in interpreting lab values in relationship to your differential diagnosis?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in interpreting imaging studies?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in your ability to determine a patient's management once you have a diagnosis?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in discussing a diagnosis with the patient (including counseling on how to manage the diagnosis?)

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

Please mark which organ systems and their associated medical diagnoses / topics you feel learning about would benefit you the most (select all that apply):

*-Nervous System*

*-Cardiovascular System*

*-Respiratory System*

*-Gastrointestinal System*

*-Hepatobiliary System*

*-Renal System*

*-Endocrine System*

*-Immune System*

*-Reproductive System*

*-Skin/Musculoskeletal System*

*-Hematology*

*-Psychiatry*

Please list any topics or diagnoses in particular that you currently would like to learn more about:

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Please describe what tutorial strategies that your school has used in the past that you find most helpful for your learning. Examples include, but are not limited to, pre-session reading, using a pre-made slide set during the session, drawing on the board during a lecture (in place of slides), ending a session with questions that check my understanding of the material, etc.

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Please explain what you hope to learn by participating in the Global Medical Education Collaborative:

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Do you feel that there are any barriers that prevent you from participating in a multi-session tutorial group? If so, what are they? (Examples include, but are not limited to, time or internet access)

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Is there anything else we should know? Other comments or questions you may have?

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## Supplemental Digital Appendix 3

### Post-Pilot Needs Assessment (June 2020 onward) - Google Forms

Thank you so much for your interest in participating with GMEC. Before we dive into tutorial sessions, we would love to hear more from the students we'll be partnering with in the coming weeks. Please take a couple of minutes to fill this out as best you can. We appreciate all of your input. Together, we hope to build a tutorial schedule that best meets your needs as a participant! Thank you so much for your help. - The GMEC Team

Email address: \_\_\_\_\_

Which country are you based in? \_\_\_\_\_

Which medical school do you attend? \_\_\_\_\_

At what stage are you in your training?

*Year 1 medical student / Year 2 medical student / Year 3 medical student / Year 4 medical student / Year 5 medical student / Year 6 Medical Student*

How confident are you in your clinical reasoning skills?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

If possible, please elaborate on your answer above: \_\_\_\_\_

How confident are you in your ability to develop a differential diagnosis when given a chief complaint?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in your physical exam skills?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in tailoring your physical exam to your differential diagnosis? (i.e picking which standard maneuvers or special exam maneuvers to conduct)

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in your ability to determine the next diagnostic steps (labs, tests, imaging studies) once you develop a differential diagnosis?

*Not very confident / Somewhat not confident / Neutral / Somewhat confident / Very confident*

How confident are you in interpreting lab values in relationship to your differential diagnosis?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in interpreting imaging studies?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in your ability to determine a patient's management once you have a diagnosis?

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

How confident are you in discussing a diagnosis with the patient (including counseling on how to manage the diagnosis?)

*Not confident at all/ Slightly confident / Somewhat confident / Fairly confident / Completely confident*

Please mark which organ systems and their associated medical diagnoses / topics you feel learning about would benefit you the most (select all that apply):

- Nervous System
- Cardiovascular System
- Respiratory System
- Gastrointestinal System
- Hepatobiliary System
- Renal System
- Endocrine System
- Immune System
- Reproductive System
- Skin/Musculoskeletal System
- Hematology
- Psychiatry

Please list any topics or diagnoses in particular that you currently would like to learn more about:

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Please describe what tutorial strategies that your school has used in the past that you find most helpful for your learning. Examples include, but are not limited to, pre-session reading, using a pre-made slide set during the session, drawing on the board during a lecture (in place of slides), ending a session with questions that check my understanding of the material, etc.

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Please explain what you hope to learn by participating in the Global Medical Education Collaborative:

---

Do you feel that there are any barriers that prevent you from participating in a multi-session tutorial group? If so, what are they? (Examples include, but are not limited to, time or internet access)

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How long would an optimal session be for you?

*-Less than one hour*

*-One hour*

*-Less than one and a half hours*

*-Less than two hours*

Is there anything else we should know? Other comments or questions you may have?

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As this project was developed in response to the current COVID-19 Pandemic, we also would like to know a little bit more about your experience.

Since the pandemic began, how much has your class time been impacted?

*-Currently there is no class time*

*-Currently there is very little class time (2-10 hours per week)*

*-Currently there is some class time (11-15 hours per week)*

*-Currently there is a significant amount of class time (15+ hours per week)*

*-Currently there is no change in class time compared to before the pandemic*

If your school has implemented virtual learning/class time, please explain what that looks like for students.

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Since the pandemic began, how much has your clinical time been impacted?

*-Currently there is no clinical time*

*-Currently there is very little clinical time (2-10 hours per week)*

*-Currently there is some clinical time (11-15 hours per week)*

*-Currently there is a significant amount of clinical time (15+ hours per week)*

*-Currently there is no change in class time compared to before the pandemic*

*-There is clinical time, but it is virtual (ex: telemedicine)*

If your school has implemented virtual clinical work, please explain what that looks like for students.

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I am worried about the impact of the pandemic on my learning.

*1 (Strongly disagree) / 2 / 3 / 4 / 5 (Strongly agree)*

Describe how COVID has impacted your learning:

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## Supplemental Digital Appendix 4

### Feedback on the GMEC Experience: Tutor Survey

Thank you so much for volunteering as a tutor for the Global Medical Education Collaborative! We are beyond thrilled to have the opportunity to work with and learn from you. Your dedication to the program helps contribute to the ongoing success of GMEC and furthers student learning across the globe. It is our belief that access to medical education and access to these free, accessible tutorials will help promote health equity as we help train the future leaders in medicine. While we know that you are all incredibly busy, we really want to make GMEC work for you. We have created this survey for two reasons: 1. to assess our progress together thus far and 2. to understand what skills we could highlight in potential tutoring resources we design and offer in the coming months (e.g. a free Training the Tutor course!).

Roughly how many tutorials have you given with GMEC thus far?

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What stage are you in your medical career?

*-Medical student*

*-Intern/Foundation Year 1 or 2*

*-Resident/Specialty Trainee*

*-Fellow*

*-Attending/Consultant*

Prior to your participation with GMEC, how many small group teaching sessions would you estimate that you've facilitated in the past?

*-None*

*-1-5*

*-6-10*

*-11-15*

*-16-20*

*-20+*

Prior to your participation with GMEC, how many VIRTUAL small group teaching sessions would you estimate that you've facilitated in the past?

-None

-1-5

-6-10

-11-15

-16-20

-20+

How long do you spend preparing for each GMEC tutorial?

-Less than 30 minutes

-30-60 minutes

-1-1.5 hours

-More than 1.5 hours

While facilitating a GMEC tutorial, how confident do you feel:

(Confidence on likert scale of 1-5, "Not at all confident" to "Completely confident")

1. Generally conducting a small group session on a virtual platform
2. Gauging your students' baseline knowledge at the beginning of a tutorial
3. Identifying and setting appropriate objectives
4. Engaging the students during the tutorial
5. Managing group dynamics in a virtual setting
6. Using questions appropriately
7. Managing time during tutorials
8. Responding to student questions
9. Explaining concepts
10. Assessing student learning from the tutorial
11. Providing appropriate follow up materials
12. Designing a multi-session course
13. Creating a pre/post knowledge assessment

What is the most enjoyable aspect of GMEC virtual small group teaching?

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What do you find most challenging about GMEC virtual small group teaching?

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How satisfied are you with your experience tutoring with GMEC thus far?

- Not at all satisfied*
- Slightly satisfied*
- Somewhat satisfied*
- Satisfied*
- Extremely satisfied*

## Supplemental Digital Appendix 5

### Tutor Feedback Survey

#### Post-Session Tutor Review (via Google Forms) -- shared with students after conclusion of tutorial, anonymous responses

Thank you for joining the Global Medical Education Collaborative (GMEC) today! Please fill out the survey below to help us evaluate the session you participated in. This information helps us improve future sessions so you as learners can benefit the most from our sessions.

Who was your tutor today? \_\_\_\_\_

What was one thing you learned during the session today? \_\_\_\_\_

What is a question you still have after your session? \_\_\_\_\_

How appropriate for your skill level was this tutorial?

*1 (Too Easy) / 2 / 3 / 4 / 5 (Too Difficult)*

Please indicate how much you agree with the following statement: After going through this session, I feel more confident with (or better understand) the material that was presented.

*1 (Strongly Disagree) / 2 / 3 / 4 / 5 (Strongly Agree)*

How well did the tutor cover the material today?

*1 (Not Well at All) / 2 / 3 / 4 / 5 (Very Well)*

Feel free to provide other comments on the content of the presentation. \_\_\_\_\_

How appropriate was the timing of this presentation?

*1 (Too Short) / 2 / 3 / 4 / 5 (Too Long)*

Feel free to provide other comments on the timing of the presentation. \_\_\_\_\_

How appropriate were the questions the tutor asked given your skill level?

*1 (Too Easy) / 2 / 3 / 4 / 5 (Too Difficult)*

How appropriate was the size (# of participants) of your tutorial?

*1 (Too Few) / 2 / 3 / 4 / 5 (Too Many)*

What device did you use today to join your session?

*Phone / Computer / Tablet / Other \_\_\_\_\_*

Do you have any suggestions for your tutor on ways to improve in the future? \_\_\_\_\_

*Please indicate how much you agree with the following statement: I would recommend this session to a friend.*

*1 (Strongly Disagree) / 2 / 3 / 4 / 5 (Strongly Agree)*