

Appendix 1. Qualtrics survey instrument.

Pre-Clinical Remote Learning Quality Improvement

Start of Block: Default Question Block

Q1 What year are you currently enrolled in at the school of medicine?

- MS1 (1)
- MS2 (2)

Q2 How has the transition to remote learning affected the **quality of instruction** you receive for each of the following curricular components?

| | Very negatively affected (1) | Somewhat negatively affected (2) | Neutral (3) | Somewhat positively affected (4) | Very positively affected (5) | N/A: I did not take this course via remote learning (7) |
|----------------------------|------------------------------|----------------------------------|-----------------------|----------------------------------|------------------------------|---|
| Lecture-based learning (1) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| PBL (2) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| POM (3) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Anatomy (4) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Histology (6) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ultrasound (7) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ACA Preceptors hip (8) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pre-clinical electives (9) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Q3 How has the transition to remote learning affected **your participation** in each of the following curricular components?

| | Very negatively affected (1) | Somewhat negatively affected (2) | Neutral (3) | Somewhat positively affected (4) | Very positively affected (5) | N/A: I did not take this course via remote learning (6) |
|----------------------------|------------------------------|----------------------------------|-----------------------|----------------------------------|------------------------------|---|
| Lecture-based learning (1) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| PBL (2) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| POM (3) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Anatomy (4) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Histology (5) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ultrasound (6) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ACA Preceptors hip (7) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pre-clinical electives (8) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Q4 I find the following resources valuable for my remote learning.

| | Strongly Disagree (1) | Disagree (2) | Neutral (3) | Agree (4) | Strongly Agree (5) | N/A: I have not used this resource (6) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| Online question bank subscription (1) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Online textbooks (2) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Podcasted lectures (4) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Online office hours/review sessions (5) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Zoom Pro Account (6) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Complete Anatomy (7) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| JOVE Science Education (8) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Aquifer (9) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| OnlineMed Ed (10) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| iPad/Tablet (11) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Laptop (12) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: (13) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Q5 Since implementation of remote learning, how much additional money have you paid out of pocket for educational resources?

- \$0-100 (5)
- \$101-\$500 (2)
- \$501-1000 (3)
- \$1000+ (4)

Q6 I felt adequately prepared to transition to remote learning.

- Strongly Disagree (1)
- Disagree (2)
- Neutral (3)
- Agree (4)
- Strongly Agree (5)

Q7 In terms of structure for the remote learning curriculum, which do you prefer?

- I prefer the flexibility of learning material at my own time and pace (1)
- I prefer having required modules and due dates (2)
- No preference (3)

Q8 Hypothetically, if some learning modules were required to be completed by certain due dates, how frequently would you prefer those due dates to occur?

- Daily (1)
- Every few days (2)
- Weekly (3)
- Biweekly (4)
- Monthly (5)

Q9 I have found the following methods of communication effective in informing me about the changes in my education.

| | Strongly Disagree (1) | Disagree (2) | Neutral (3) | Agree (4) | Strongly Agree (5) | N/A: I have not received communication via this method (6) |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| Emails (1) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Canvas (2) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Virtual Town Halls with SOM Deans (3) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Facebook Class Page (4) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| University Website (5) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: (6) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Q10 Given the transition to remote learning, I feel that the examination process provides a fair assessment.

- Strongly Disagree (1)
- Disagree (2)
- Neutral (3)
- Agree (4)
- Strongly Agree (5)

Q11 How do you feel your USMLE STEP 1 preparation has been affected by the transition to remote learning for your medical education curriculum?

- Very negatively affected (1)
- Somewhat negatively affected (2)
- No change (3)
- Somewhat positively affected (4)
- Very positively affected (5)

Q12 Given the transition to remote learning, how prepared do you feel to begin clerkships?

- Very unprepared (1)
- Somewhat unprepared (2)
- Neutral (3)
- Somewhat prepared (4)
- Very prepared (5)

Q13 Since implementation of remote learning, which of the following describes your residence location:

- Stayed at UCSD graduate student housing (1)
- Stayed in existing off-campus housing in San Diego (5)
- Moved off-campus in San Diego (2)
- Moved outside San Diego area (4)

Q14 Rate your agreement with the following statements:

| | Strongly Disagree (1) | Disagree (2) | Neutral (3) | Agree (4) | Strongly Agree (5) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| I have access to sufficient internet to meet the demands of remote learning. (2) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I have access to sufficient technology (ie a computer with a webcam, iPad, etc) to meet the demands of remote learning. (3) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Given my living arrangements, I have sufficient access to quiet study space to meet the demands of remote learning. (4) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Overall, my current living arrangements are conducive to remote learning. (6) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Q15 Rate your agreement with the following statements:

| | Strongly Disagree (1) | Disagree (2) | Neutral (3) | Agree (4) | Strongly Agree (5) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Given the transition to remote learning, I still feel connected to UCSD School of Medicine. (1) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Given the transition to remote learning, I still feel connected to my classmates. (2) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Q16 If you have participated in any form of tele-health during this time, please comment on your experience:

Q17 What are the best components of the remote learning curriculum?

Q18 What gaps remain in the remote learning curriculum?

Q19 Which components of the remote learning curriculum should be continued in the standard curriculum in the future?

Q20 Finally and most importantly- please reflect on your own experience with remote learning for the pre-clinical curriculum. What would you like for course directors or others in medical education to better understand about the experience?

End of Block: Default Question Block