

Successes and Challenges of a Virtual STEM Program – Qua et al. Appendix A. Survey and Focus Group Materials.

Student Post-Program Survey

- 1. What effect did the SEO/YES Program have on your interest in Biomedical or Cancer Research?
- Increased Decreased No effect
- 2. Please explain (the above response)
- 3. What were the top three program highlights for you?
 - Highlight 1
 - Highlight 2
 - Highlight 3
- 4. Did the program meet your expectations? Yes No Maybe (please explain)
- 5. What recommendation, if any, do you have to improve your experience during the program?
- 6. Are you interested in a career in Biomedical or Cancer Research or Health Care?
 - Yes No Other (please describe)
- 7. Rank the activities in the order of how much you liked it (i.e., what you liked the most should be 1)
 - a. Virtual Research Project
 - b. Student-mentor interaction
 - c. Lunch and learn seminars
 - d. Near Peer Mentor Meetings
 - e. Learn to Beat Cancer Tutorials
 - f. Current Events Discussions
 - g. Electronic Learning Modules and Teacher Discussions
 - h. Career Cafe Meetings
- 8. Rank the activities in order of how much you learned from it (i.e., the activity where you learned the most should be 1)
 - a. Virtual Research Project
 - b. Student-mentor interaction
 - c. Lunch and learn seminars
 - d. Near Peer Mentor Meetings
 - e. Learn to Beat Cancer Tutorials
 - f. Current Events Discussions
 - g. Electronic Learning Modules and Teacher Discussions
 - h. Career Cafe Meetings
- 9. Rank the activities in order of how much you learned about dealing with stress (i.e., the activity where you learned the most about dealing with stress should be 1)
 - a. Virtual Research Project
 - b. Student-mentor interaction
 - c. Lunch and learn seminars
 - d. Near Peer Mentor Meetings
 - e. Learn to Beat Cancer Tutorials
 - f. Current Events Discussions
 - g. Electronic Learning Modules and Teacher Discussions
 - h. Career Cafe Meetings

10. If your school was to go completely online, which activities would you recommend they incorporate into curriculum? (select all that apply)

- a. Virtual Research Project
- b. Student-mentor interaction
- c. Lunch and learn seminars
- d. Near Peer Mentor Meetings
- e. Learn to Beat Cancer Tutorials
- f. Current Events Discussions
- g. Electronic Learning Modules and Teacher Discussions
- h. Career Cafe Meetings
- 11. Did you learn about a college that you would like to attend? Yes No If yes, please list which college(s).
- 12. Did you learn about a career you are interested in? If yes, please list which career(s).
- 13. Describe how you felt about your Wednesday small group (Neer Peer Mentors).
- 14. Did the program increase your knowledge about the following topics?

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Health and health science	Yes	No
Cancer	Yes	No
Cancer risk factors	Yes	No
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- Cancer disparities Yes No
 15. Did the program interest you in the following areas? Pursuing a career in health science or health care
- Pursuing a career in cancer research
 - Applying to college or professional schools I definitely plan to attend college. Yes No
- Yes No Maybe (if maybe, please explain)

No

No

Yes

Yes

- 16. I definitely plan to attend college. YesIf yes, what college do you plan to attend?If yes, what major(a) are you interested in purpose.
 - If yes, what major(s) are you interested in pursuing?
- 17. I plan to pursue a career in:
- 18. What factors do you expect will promote or interfere with your career choice?
- 19. I plan to pursue the following postgraduate degree: MD PhD Other Don't know
- 20. Do you think the online format was an effective experience for you? Yes No
- 21. What challenges did you face with the remote laboratory/learning experience?

Facult	ty Post-Program Survey									
1.	Was the student prepared for the experience? Y	es No								
2.	Were you prepared for the student? Y	es No								
3.	Was the student interested in the research? Y	es No								
4.	Did the student interact well with lab personnel?	Yes	No							
5.	Please rate your opinion of the student's scientific	knowledge a	at the beg	inning o	of the pro	oject.				
	Less than you expected									
	What you expected									
	More than you expected									
6.	Did the student's knowledge improve over the sum	nmer?	Yes	No						
7.	Were there any special problems with the student?		Yes	No						
8.	Should we accept the student back into the program	m next year?	•	Yes	No					
9.	Would you be will to accept the student back into y	your lab nex	t year?	Yes	No					
10.	Do you think your student deserves to be recognize	ed for scient	ific grow	th by the	e Mark S	Smith Outst	anding			
Resear	rch Performance Prize? Yes No		0	5			0			
	If yes, provide an explanation of why.									
11.	Do you think your student deserves to be recognize	ed for scient	ific merit	by the N	Mark Sm	uith Outstar	nding			
Resear	rch Achievement Prize? Yes No						8			
	If ves, provide an explanation of why.									
12.	Do you think the online format was an effective ex	operience for	• the stude	ent?	Yes	No				
13.	Additional comments	-r								
14.	What challenges did you face with the student wor	rking remote	lv?							
15.	Please provide any additional comments related to	the remote	nature an	d impact	ts of CO	VID-19 on	this program.			
16.	Rate your student on the following variables from	Poor (1) to I	Exception	ral(5)			hine programm			
101	How well does your student understand their research topic?									
	How much has their level of understanding improved from the beginning of the program?									
	How enthusiastic is your student to learn about the tonic and methods?									
	How much has their enthusiasm for the tonic and r	methods imp	roved fro	om the b	eoinning	of the proc	oram?			
	How much initiative does the student show to learn	n?	noveu ne		-9E	, or the prog	514111.			
	How much initiative does the student show to get results?									
	How much initiative does the student show to determine what their results mean?									
	How much has the student's initiative improved fr	om the begin	ning of t	the progr	ram?					
	How well has the student mastered the techniques	taught?	ining of t	ine progr	am					
	How well has the student mastered the techniques taught?									
	How much improvement have you observed in the student's technical aptitude?									
	now wen does the student use their time in the laboratory?									
	How well does your student aritically evaluate their reculte?									
	How much has the student's critical evaluation of regults improved from the beginning of the program 2									
	How well door your student integrate their results into the "big ricture"?									
	now wen does your student integrate their results into the "big picture"?									
	now much has the student's integration of their results into the org picture improved from the beginning of the									
	program									
Foous Crown Cuiding Questions										
1	Tell me about your experience in the summer prog	ram								
1.	ren me about your experience in the summer prog	,1 all1.								

- 2. Tell me about the role of the program and how it has shaped your future plans.
- 3. Describe your experience with the Wednesday Near Peer Mentors.