Development and Institution of a Virtual Platform for the Physiology Camp





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BACKGROUND

PhysioCamp has been engaged in K-12 tutoring and healthcare educational projects for the past several years.

In response to educational barriers within the K-12 school system due to COVID 19, PhysioCamp designed a virtual platform for free K-12 tutoring (TeleTutors) and healthcare educational sessions (TeleCamps).

PROJECT AIM

At the start of COVID, PhysioCamp's overarching goal was to provide hope, opportunities, and guidance for K-12 students.

Two aims identified in the Fall 2020 semester:

- TeleCamps (TC): reach at least 30 participants (TCP) by May 2021.
- TeleTutors (TT): 50% increase in K-12 participants (TTP) by February 2021.

PROJECT DESIGN/STRATEGY

Applied change management principles and a systems approach in adjusting organizational structure, responsibilities, and procedures.

Continuous assessment and evaluation was performed, as outlined in the PDSA cycles.

Tutor training and matching, research, data management, correspondence, advertising, and other support services were delegated amongst various interprofessional teams.

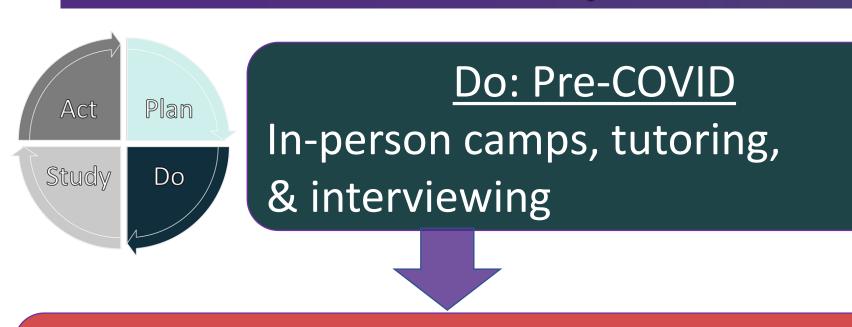
TeleTutors: TTP determines topic reviewed

- TTV:TTP ratio is 1:1.
- Undergraduate V's.

TeleCamps: Volunteers (TCV) determines topic reviewed

- TCV:TCP ratio less than 1:4.
- Graduate healthcare V's.

CHANGES MADE (PDSA CYCLES)



COVID

-Stop in person activities -Assess community needs

Plan- March 2020

- -Community need identified: Homework Help -Brainstormed Teletutor concept
- -Identified leaders, Recruited volunteers
- -Delineated tasks and responsibilities

Do – April & May 2020 TeleTutors

-Implemented Sign-up and Matching process for local TTV & K-12 TTP

Study- May & June 2020

TeleTutors -Some TTV's withdraw citing return to classes

-Improvement needed in matching process -TTV's significantly outnumbered TTP's

Act-June & July 2020 TeleTutors

-Implemented screening & training of TTV's

- -Updated sign-up process
- -Broadened advertising

Plan – June-August 2020 TeleTutors & TeleCamps

-Restructuring of roles and responsibilities within organization to accommodate TC -Update documentation procedures -Research best implementation of TC - Schedule orientation for new volunteers

Do – August-November 2020 TeleTutors & TeleCamps

-Implemented surveys to assess feedback, knowledge gain, and areas of improvement -Roll out sign-up for TCV & TCP -Updated Website

Study - December-Jan 2021

TeleTutors & TeleCamps -Need improved monitoring of TTV and TTP communications, progress, and issues -Need improved communication between PhysioCamp committees

Act - Jan2021

TeleTutors & TeleCamps

- -Email monthly check-in's with TTP -Require review of all communications between TTV's and TTP's
- -Communications committee formed to improve internal flow of information

LESSONS LEARNED

Persistence, teamwork, and communication have been resounding themes necessary for project advancement.

Be aware of potential legal requirements, procedures, and ramifications.

Important to know the community you are working with, including needs, resources, and barriers.

Check-in on communities with reduced access to resources.

Reevaluate program if enrollment is not correlating with degree of advertising.

NEXT STEPS

As more tutors have completed onboarding, we will expand our advertising efforts towards K-12 students and parents, especially within disadvantaged and underserved communities.

Virtual TT and TC allows students from various locations to be reached.

Anticipate higher satisfaction rates with inperson camps and tutoring due to the greater degree of interaction with instructors and anatomical models.

PhysioCamp will continue to create innovative ways to connect K-12 students to the healthcare field. If you have any thoughts or suggestions, then please let us know!

RESULTS/OUTCOMES

TT Spring of 2020 results:

K-12 Students Enrolled: 14 Volunteers Tutors Signed Up: 69 Tutor-Tutee Matches: 14

TT Fall 2020 results:

K-12 Students Enrolled: 42 total; 39 active Volunteers Tutors: >700 signed up, >100 onboarded Total Tutor-Tutee Matches: 46 total; 42 active

TC Start of Spring Semester of 2021 results:

Total sessions: 5 Participants: High School: 11 Volunteers: >400 signed up, >60 onboarded

ACKNOWLEDGEMENTS

Thank you to all of our dedicated interns and team members in helping to keep activities up and running. Thank you to Dr. Stephen Charles, community mentors, and our volunteers for their time and input. And thank you to the students and parents for their feedback and willingness to work with us!

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