### Columbus 1

### Healthcare Inequities in Underserved Communities Symposium

Students - Arin - Pradnya - Prahalya - Rishik - Srikari - Vedhantha Mentors - Santosh Domakuntla - Siva Seethiraju



## Phase 1 Columbus 1 Team



### Background and Research for Need Statements

Topic: Inadequate access to health and wellness services in underserved communities

- Researched in various different sections under the larger umbrella of healthcare and wellness.
- Mental Health, Health Literacy, Medicinal Literacy, Racial Bias, Insurance, and specific topics included maternal health and gene therapies
- Mental health connected most to the topics as we found in our interviews with stakeholders.
- Mental health most directly connected to academic performance at school as confirmed by three psychiatrists in the Columbus area.
- Additionally, health literacy was another topic bought up by many of the stakeholders.
- Many people, especially immigrants did not know the procedures followed the hospitals and the insurance system here.



### Final Need Statements

Needs Criteria: Urgency, Magnitude, Team Interest, Ability to solve, Stakeholders willing to assist

1. A way to address the lack of mental health resources for students in low-funded high schools in Columbus, Ohio in order to improve academic grades by one level measured through survey.

 A way to address racial bias in hospitals while healthcare workers are offering their services to patients for underserved minorities in order to ensure that healthcare is equally offered to all ethnicities, without one group getting more modern, up-to-date care.

A way to address low medicinal literacy rates in the low-income communities in Columbus in order to decrease injuries from self-diagnosing.



## Phase 2 Columbus 1 Team



### Key Notes from Stakeholders

- Lack of Mental Health Resources:
  - Conducted interviews with: Dr. Evita Singh, Dr. Larrilyn Grant, Dr. Jen Thaete
  - During our interviews with child psychiatrists, they talked about how many children are waitlisted at different psychiatric centers due to short numbers of psychiatrists. Dr. Larrilyn Grant stated how there are only around 8K-9K psychiatrists, when the needed number is over 30K. Waitlists can take up 1-2 years for patients with autism and other disorders for treatment.
  - They gave examples of well-funded school districts like Olentangy and Dublin having great services for their students.
- Low Medical Literacy Rates:
  - Dr. Vijaya Knight described the problem of low health literacy affected doctors. Doctors had to explain the healthcare process in more detail because they noticed that many people were not aware of that.
- Unfair Insurance:
  - American Red Cross Columbus Director Cory Paul talked about how insurance only covers little and specific things.
- "If healthcare should be changed in 2023, I think it should be more affordable and accessible," observed Dr. Devi Jagannathan PHD.

### **Final Five Solutions**

#### Solution Criteria: Speed, Sustainability, Cost, Attainability, Impact

 Complete the Psychological First Aid course on Coursera prior to implementing our solution (for info) and making it as a resource for school faculty and students. We can create a web page that lists courses.

$$(5 + 4 + 5 + 5 + 4 = 23/25)$$

2. An Infographic that can be passed out at community centers to educate people about mental health problems and services

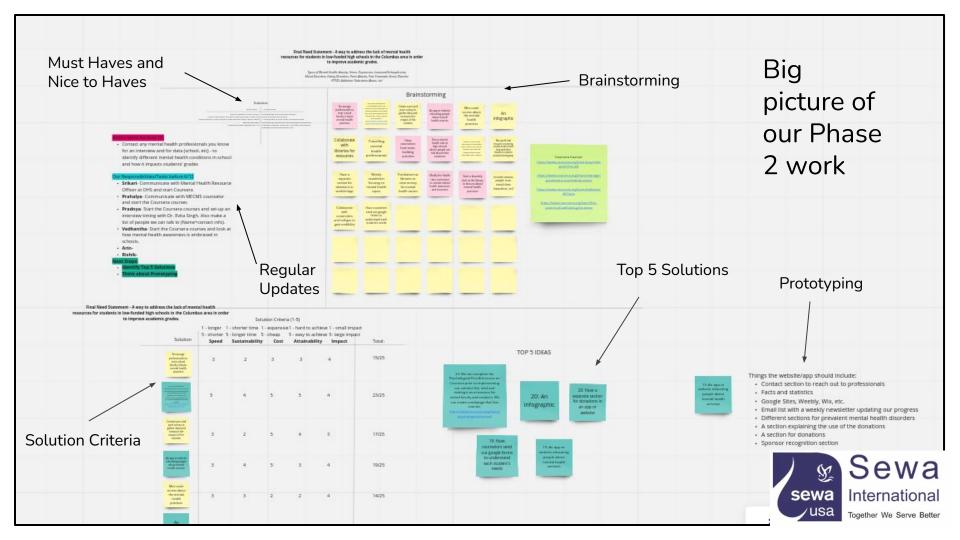
$$(4 + 3 + 5 + 5 + 3 = 20/25)$$

- 3. An app or website educating people about mental health services (3 + 4 + 5 + 3 + 4 = 19/25)
- 4. Have a separate section for donations on the website where we can raise money for mental health causes.

$$(4 + 5 + 5 + 3 + 3 = 20/25)$$

5. Have counselors send out google forms to understand each student's needs (3 + 5 + 5 + 3 + 3 = 19/25)

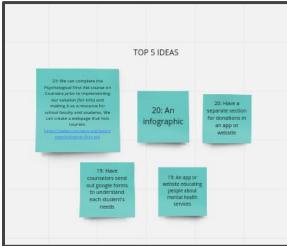




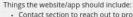
## Next Steps Columbus 1 Team



### **Prototyping**



Google sites,	wix, weebly, etc.	
FACTS & STATS	PREVALENT MENTAL HEALTH DISORDERS	CONTACT
MENTAL HEALTH FACTS	STIESS ANXIETY	CONTACT A
STATS	DEPRESSION	messag
GMAIL UST SURSCRIPTION SUBCRIBE TO OUR EMALLIST FOR	A SECTION EXPLANAMING THE USE OF DONE TWHY DONATE?	
MORKLY NEWS! NOWE: (	WE USE OUR DONATION	ST FOR:
DONATIONS	SPONSOR RECOGNIT	NON
ANYTHING HELES ANYTHING HELES AMOUNT: 3 NOME: WHY:	NAME: ( HOW MUCH YOU DOWNTOD'	OUR SPORSORS;



- · Contact section to reach out to professionals
- · Facts and statistics

19: An app or

people about

mental health

services

- · Google Sites, Weebly, Wix, etc.
- · Email list with a weekly newsletter updating our progress · Different sections for prevalent mental health disorders
- · A section explaining the use of the donations
- · A section for donations
- · Sponsor recognition section



# Appendix



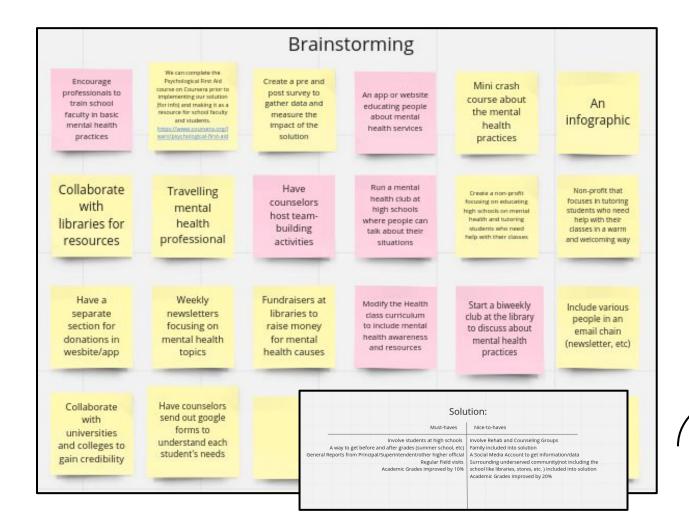
### Background and Research to Need Statements from Secondary Research and Stakeholders

Team Member(s) Responsible For Need Statements	Resource Type (resources can include articles , news story, you tube video,government reports.etc.)	Website links and Article Title	Nature of source (secondary research, survey or interviews)	Source details (Who, What, When, Where -specially relevant for interviews,surveys and field immersions, but can also be used for authors/publishers of secondary research)	Key observations	Assessment (optional): Here, questions, definitions, and details can be provided.	
Srikari	Article	How does cost affect healthcare?	Secondary	By: Shameek Rakshit, Matthew McGough, Krutika Amin, and Cynthia Cox	Many people delay getting treatment or getting medical care due to cost reasons (including not having insurance).	While people think that prolonging healthcare saves them money, it actually worsens their health problems and possibly costs them more in the long run.	A way to
Srikari	Article	Implicit Bias and Racial Disparities in Health Care	Secondary			The only way to truly stop racial bias in the healthcare system is to show people why it's wrong.	A way to workers a
+ ≣ Hous	se Keeping ▼ Ne	https://docs.google.co m/document/d/1CI5M EhtOfekTcvv20-thftOv	Need Finding Templa	American Red Cross	Insurance is a complicated system. People get several different bills from several different doctors, however most people can't ing -COL1	It seems like the insurance system needs to be changed. Companies need to be terms and seems and seems like the insurance system needs to be changed. Companies need to be seems like the insurance system needs to be changed.	

### Background and Research to Need Statements from Secondary Research and Stakeholders

Healthcare inadequecies in underserved communities	Link to Miro Board: https://miro.com/app/board/uXjVMeG-Dvg=/	Link to Need Statements: https://docs.google.com/sprea dsheets/d/1FHDxL39WcYoh 2Wc4sI-nYPrDae-MqHNml 9zNF7X-Isc/edit#gid=0	Link to Secondary Research: https://docs.google.com/sprea dsheets/d/1FHDxL39WcYoh2 Wc4sI-nYPrDae-MqHNml9z NF7X-Isc/edit#gid=39723803		
Person Who Is Contacting	Stakeholder/Facility Name	Stakeholder Type	Contact Status	Contact Type	
Prahalya	Students / Principal	Patients and Customers	Contact Established	Google Forms	N/A
Prahalya	School Counselor - Tim Latta	Patients and Customers	Not Contacted	Email first, then Interview	latta@them
Vedhantha	School Counselor - Selena McKnight	Patients and Customers	Not Contacted	Choose an Option	selena_mcl
Arin	School Counselor - Selena McKnight	Patients and Customers	Not Contacted	Choose an Option	selena_mcl
Pradnya	School Counselor	Patients and Customers	Not Contacted	Choose an Option	
Rishik	School Counselor	Patients and Customers	Contact Established	Email	
Prahalya	Teacher - Isabel Lewis - M.S. Science	Patients and Customers	Contact Established	Email first, then Interview	lewis@then
Prahalya	Teacher - Joshua Dodge - M.S. Science	Patients and Customers	Contact Established	Email first, then Interview	dodge@the
Prahalya	Teacher - Debra Juracich - M.S. Science	Patients and Customers	Contact Established	Email first, then Interview	juracich@th
Vodhantha	Toochor Julio Efflor	Patients and Customers	Not Contacted	Char	11/2
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Think about Pro								
low-funded high so	ress the lack of men chools in the Colum							
to improve acade	mic grades.		Solut	ion Criteria	(1-5)			
_	Solution		- shorter time 1 - - longer time 5 - Sustainability			ieve 1 - small impa ieve 5- large impa y Impact		
	Encourage professionals to train school faculty in basic mental health practices	3	2	3	3	4	15/25	23; We o Psychologic
	We can comprise the Prophelogical First And course on Courses give to Implementing our relationship for their give making and making and making and an account for their given and	5	4	5	5	4	23/25	Coursera p our solu making it school facu can create https://www psyche
	Create a pre and post survey to gather data and measure the impact of the solution	3	2	5	4	3	17/25	Sewa International Together We Serve Better



#### Solu

Must-haves

Involve students at high schools A way to get before and after grades (summer school, etc) General Reports from Principal/Superintendent/other higher official Regular Field visits Academic Grades improved by 10%

#### ition:

Nice-to-haves

Involve Rehab and Counseling Groups
Family Included into solution
A Social Media Account to get information/data
Surrounding underserved community(not including the
school like libraries, stores, etc.) Included into solution
Academic Grades improved by 20%



# Thank you!

