A Conserver of the start of the

Background **Public Health Impact of Vaccines** Vaccine Development Process For my capstone project I am working to contribute Exploratory Quality Control - Fradication of disease to the development of a vaccine for Plasmodium - Reduced morbidity & mortality vivax (PV) malaria. Health: - Herd immunity The overall goal is to identify antibodies which block PV invasion into red blood cells. - Reduced Antibiotic Resistance PV is the most geographically widespread form of malaria, putting over 2.5 billion people at risk of Regulatory Pre-clinical Clinical Manufacture review infection. From this vantage point I created a COVID-19 - Health equity Л PHASE I vaccine outreach program. Social: - Social integration SUBMIT - Social mobility IND PHASE I **Population** PV: **Deliverables** 80-90% of all PV occurs in the tropical regions of Closing the gap - why I got the COVID-- Health cost savings The COVID-19 Vaccine the Middle East, Asia, and Western Pacific 19 vaccine: Kyla Johnson × What You Need to Kr - Reduced government **Economic:** Other 10-20% occur in Central and South America. Phyths The vaccine will give me the virg Fort: The vacane will NO7 give you the strue of the vacance is to teach your immune system.1 spendina Children, pregnant women, rural communities and 1.0p Ed published in The vaccine was rushed, and - Productivity gains migrant workers are most vulnerable There is SQ articlence backing this much, ine shalled the SNG-CoV-2 milks protein. the Cleveland Plain The vanitae canees infertility COVID-19: Duce I receive the vaccine I no los hare to year a mark. Dealer SARS-CoV-2 virus has caused a global pandemic. . Hyth: I can wait to get the vaccing later to see how others reast In the United States individuals at higher risk for Resources serious complications due to COVID-19 include: Centers for Disease Control and Prevention. "Do I Need to Take Extra Precautions Against COVID-19." Centers for Disease Control and Prevention. Centers for Disease Control and minorities, pregnant women, elderly individuals, 2. Educational flver Prevention, Mar. 2021. people with chronic medical conditions advocating for the vww.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/index.html. The 3 Vaccine: (19%) -----Covid-19 vaccine Centers for Disease Control and Prevention, "Health Equity Considerations and Racial and Ethnic Minority Groups," Centers for Disease Control and Prevention, Centers for Disease Control and Prevention, Feb. 2021. www.cdc.gov/coronavirus/2019-ncov/community/health-equity/race-ethnicity.html. Learning Objectives Luyten, Jeroen, and Philippe Beutels. "The Social Value Of Vaccination Programs: Beyond Cost-Effectiveness." *Health Affairs*, vol. 35, no. 2, 2016, pp. 212–218. doi:10.1377/hlthaff.2015.1088. f 🎽 312 Effectively develop health communication for 1 Mehlotra, R.K., Blankenship, D., Howes, R.E. et al. Long-term in vitro culture of Plasmodium COVID-19 vaccine vivax isolates from Madagascar maintained in Saimiri boliviensis blood. Malar J 16, 442 Understand the public health impacts of both a PV (2017), https://doi.org/10.1186/s12936-017-2090-2. **Lessons Learned** and COVID-19 vaccine

Effectively advocate for minorities in Cuyahoga County to get COVID-19 vaccine 2. How to deve

3.

3.

- How to effectively communicate concerns and needs of a vulnerable population
- How to develop health education materials
- The impact of my own voice as a professional and minority

- Mendis K, Sina BJ, Marchesini P, Carter R. The neglected burden of Plasmodium vivax malaria. Am J Trop Med Hyg. 2001 Jan-Feb;64(1-2 Suppl);97-106. doi: 10.4269/ajtmh.2001.64.97. PMID: 11425182.
- Rodrigues, Charlene M., and Stanley A. Plotkin. "Impact of Vaccines; Health, Economic and Social Perspectives." Frontiers in Microbiology, vol. 11, 2020, doi:10.3389/fmicb.2020.01526.



Link to presentation

Link to Op-Ed