**RAMP Project Abstract:** Porto Alegre, Brazil

**Project Title:** The Impact of Vaccination Against COVID-19 in Cases of Hospitalar Admissions and Deaths in Rio Grande do Sul

**Project Type:** Long-term project (12 months)

**Proposed Project Dates:** May 2022 – May 2023

**Project Overview:** Vaccines to prevent SARS-CoV-2 infection approved for use in Brazil are highly effective and substantially reduce the risk of serious disease from COVID-19. Brazil has a robust history in immunizations, with a network spread throughout the national territory and a population adapted to the benefits of vaccine campaigns. Questions related to the duration of protection, the need for additional booster doses, the specific outcome in subpopulations and impact on community transmission, should be evaluated. Instituto de Pesquisas do Rio Grande do Sul (IPARGS) is a clinical trial site that is located in the city of Porto Alegre and is reference in medical research in Rio Grande do Sul with the purpose of promoting education and awareness, development and dissemination of scientific projects, in addition to creating, designing and supporting research protocols. We work in partnership with Grupo Hospitalar Conceição (GHC), nationally recognized as the largest public hospital network in the southern Brazil, being 100% SUS (Sistema Único de Saúde, Unified Health System). The RAMP scholar sharing these project experience with us will have the opportunity to getting to know and work at our site, in addition to the unique experience in exchange of knowledge with our multidisciplinary team specialized in research and care in the infectious diseases field. In the development of this project, the scholar will be our partner in the production, analysis and discussion of the results, aiming their professional growth and the development of strategies to control the pandemic. In this regard, evaluating the impact of vaccination in cases of hospitalizations and deaths in the state of Rio Grande do Sul can coordinate with responses to control the pandemic. Such study could add in dissemination of vaccination, reaching all age groups, reinforcing the need to maintain protective measures against COVID-19 and proposing strategies to further reduce the unfavorable outcomes of the disease.

**Project Summary:** The aim of this project is evaluate the impact of vaccination against COVID-19 on the need for hospitalizations, admission to the Intensive Care Unit and occurrence of death.

**Regulatory requirements for the project and plans for completing them:** The proposal was submitted to the Hospital Nossa Senhora da Conceição Human Research Ethics Committee in September. Approval is expected to November/December, 2021. As the project starts in May, 2022, the scholar will be required to complete GCP training and HSP training.

**Expected Deliverables:** One-month on-site training, 7 months of reviewing medical records and information systems, and entering the data on the project specific database, and 4 months analyzing data, preparing results for a poster/oral presentation at the HVTN Meeting, at Brazilian Congress of Allergy and Immunology, and for publication.

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