2023 Harvard/University of Global Health Equity
Mathematical Modeling for Infectious Disease Planning

Modeling interventions for your project

Time: 30 minutes

In this activity, you would extend your compartmental model with outcomes to include the intervention(s) you would like to assess in your project.

1) Identify and briefly describe 2-4 interventions used to control your disease of interest using the table below.

Intervention	**Description**
Example: Vaccination	Involves introducing a vaccine into a host's body to induce protection against infection

2) Identify one intervention you would like to assess in your project (discuss your decision with a training facilitator before proceeding to the steps below).
3) Briefly explain how the selected intervention affects the structure of your model.
4) Update the compartmental model structure to account for the intervention in step 3 and highlight the arrows/compartments that would be impacted by these interventions.
5) Write down differential equations for the updated compartmental diagram.
6) Bonus: repeat 2-5 with another intervention.