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

Assessing sensitivity of intervention effects

Time: 1 hour

At the end of the activity, you would have analyzed the sensitivity of your intervention effects to an uncertain parameter in your model.

1. Using the steps outlined in the lecture on "Assessing sensitivity of intervention effects", perform an analysis to assess whether your results on intervention impacts are sensitive to an uncertain parameter in your model. **Limit your analysis here to one intervention (e.g., surveillance), one model outcome (e.g., deaths) and one uncertain parameter (e.g., transmission rate).**

Below, you are expected to outline the steps and provide responses to each step. Templates have been provided for the first two steps.

- Step 1. Write down your research question for this analysis. How sensitive are the results on ………… effects to changes in …………….?
- Step 2: Decide on the model outcome for this analysis. Deaths
- Step 3: