

For this project, each of you should find a disease of interest for which data on infection (or death) is available. Try to find parameter values which will make the SIR model reflect what you see in the real-world data.

Prepare a report that discusses

1. the data you used (the source of the data, reliability of the data, etc.);
2. the basic concepts and equations of the SIR model;
3. your analysis of the model (how accurately the model described the actual progression of the epidemic);
4. your assessment of any weaknesses and strengths of our model (discuss the apparent/possible effects of any assumptions made in developing the model, as well as assessing the reasonability of particular assumptions, such as the "no reinfection" assumption); and
5. your final conclusions.