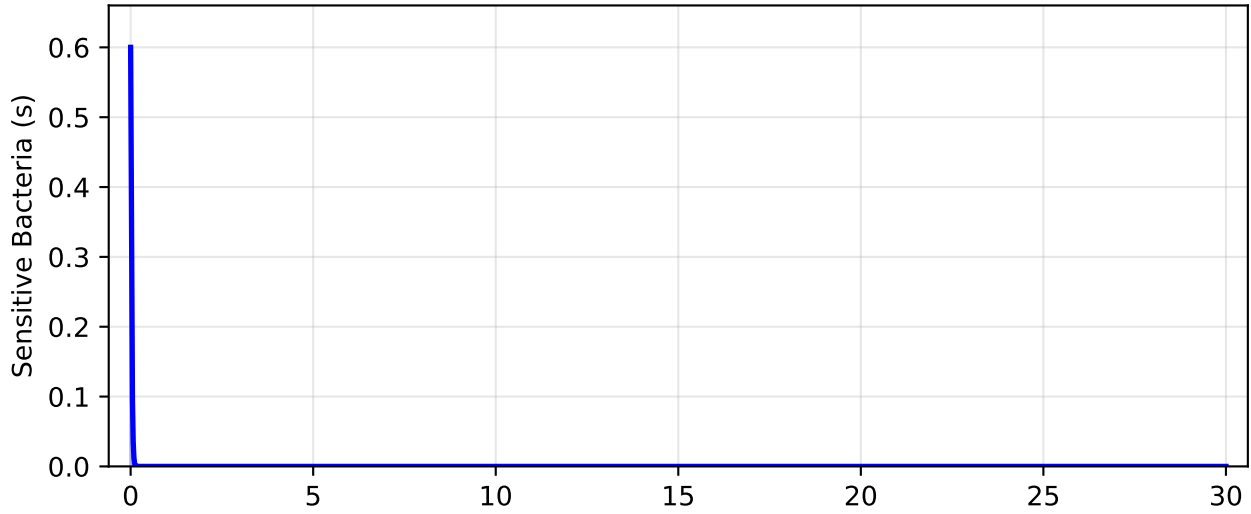
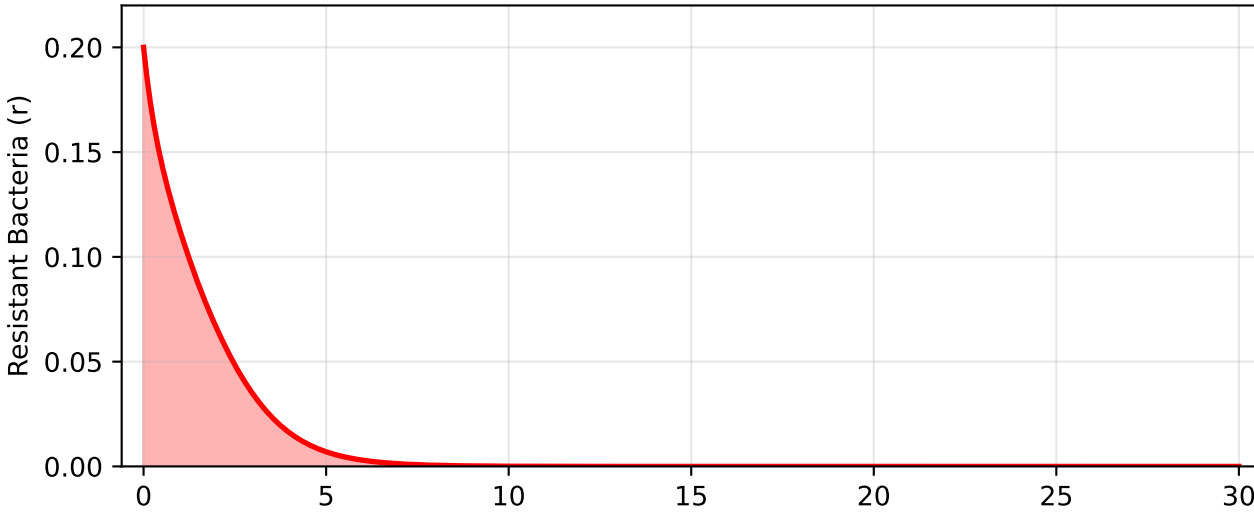


**Scenario 1: Successful Eradication**  
**Final  $R_s = 0.004$ , Final  $R_r = 0.001$**

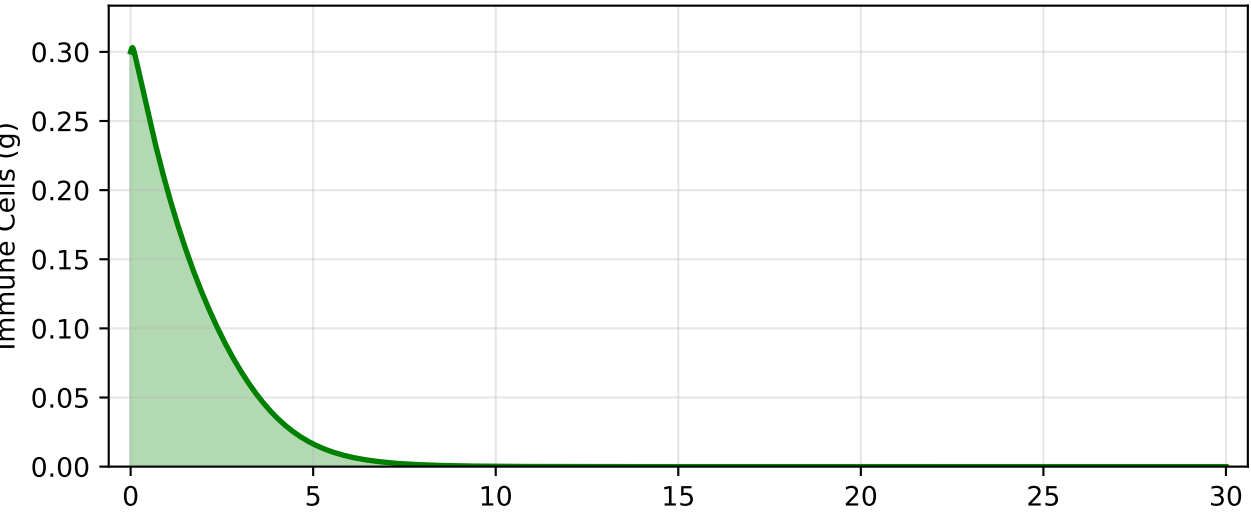
Sensitive Bacteria Dynamics



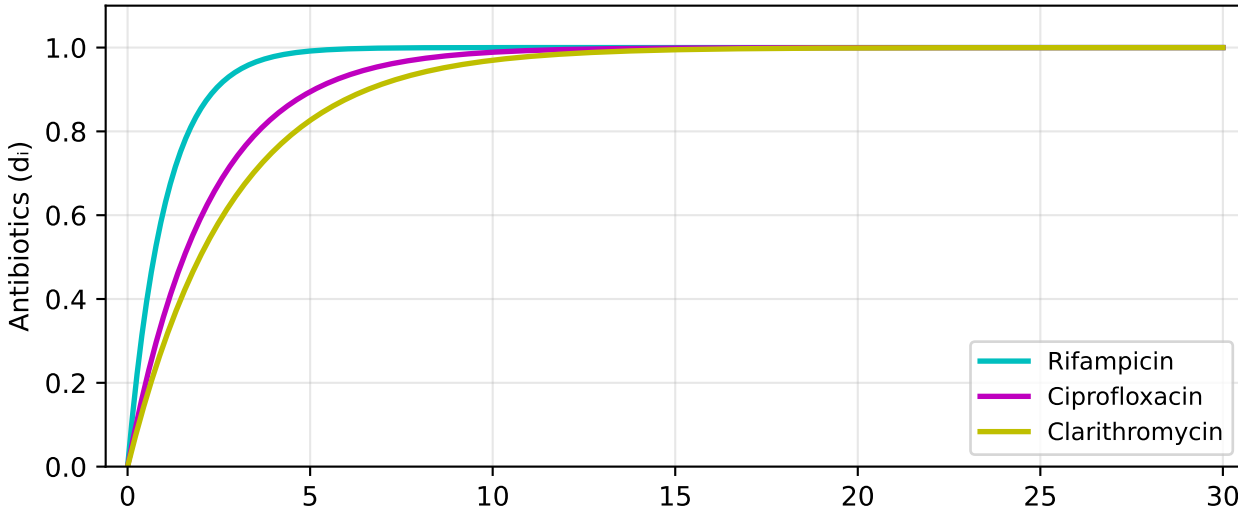
Resistant Bacteria Dynamics



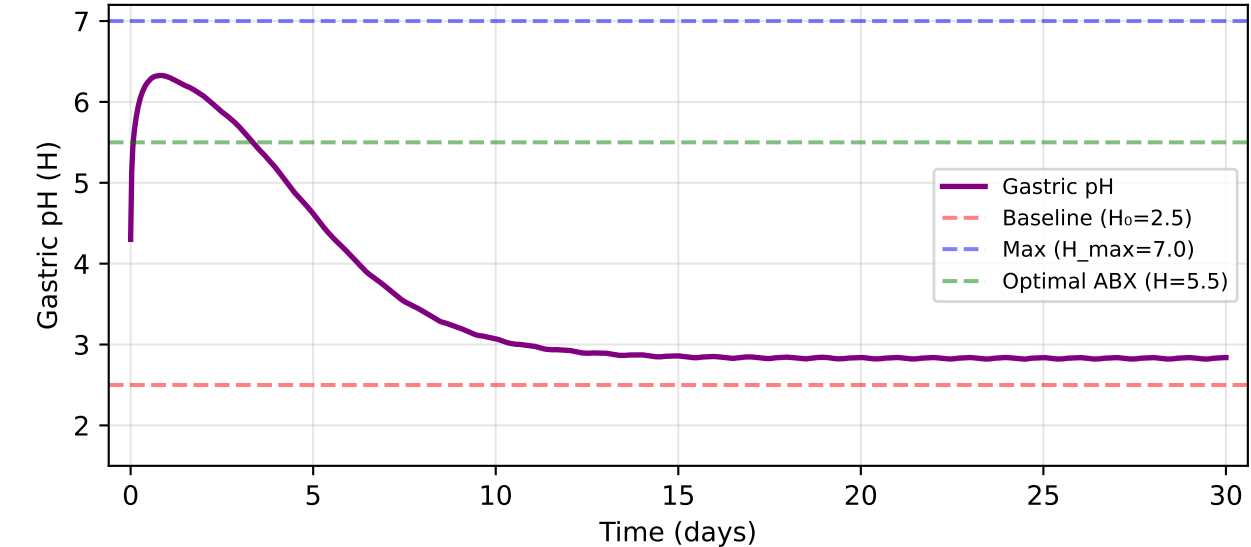
Immune Response Dynamics



Antibiotic Concentrations



Gastric pH Dynamics



Dietary Perturbation

