

Figure S1: Effects of antibiotic therapy as a function of the time of treatment onset. A) c = 2.2 (high cost of resistance, as in Table ??). B) c = 0.1 (small cost of resistance). Other parameters as in Table 1. Infections were simulated for 30 days. The different lines depict the proportional reduction (on a log-scale) in different infection measures, relative to no-treatment: M(D) refers to final immune memory, H_{tot} to cumulative immunopathology, and R_{tot} to overall resistance. We see a maximum effect at intermediate delays for moderate doses below and within the critical range $[A_m^*, A_m^{**}]$, signalling the benefit of host immunity involvement in clearance. This benefit does not apply when aggressive doses are deployed.