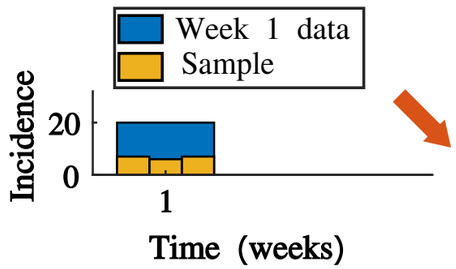
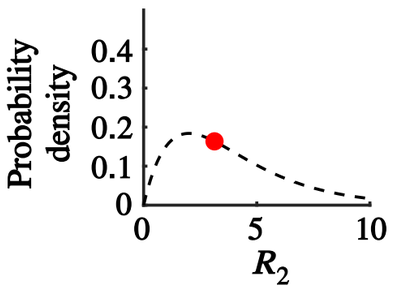
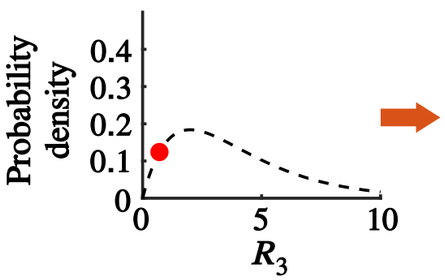
(1) Initialise incidence partitioning



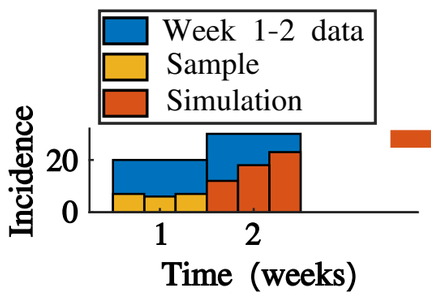


(2) Sample R_t from prior

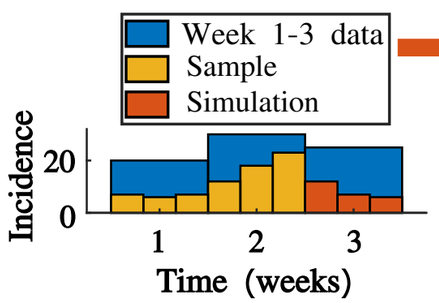


(3) Simulate epidemic over P partitioned timesteps

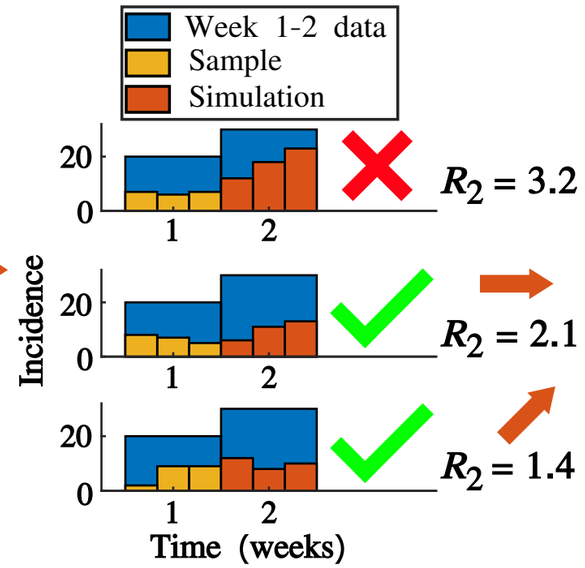
$R_2 = 3.2$

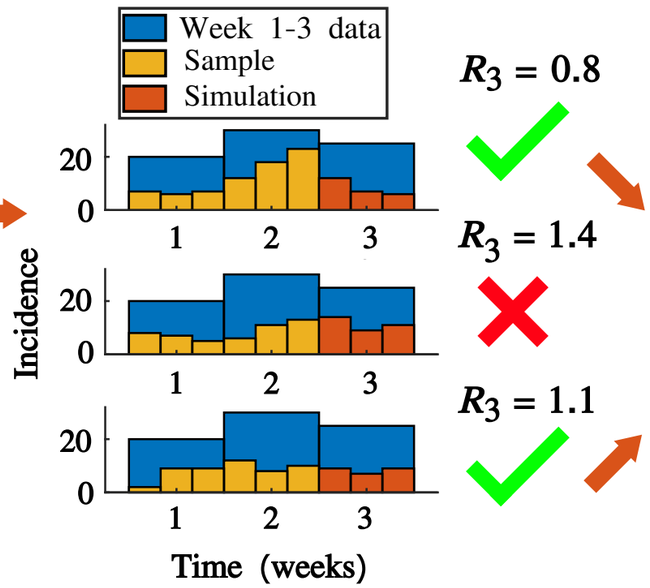


$R_3 = 0.8$

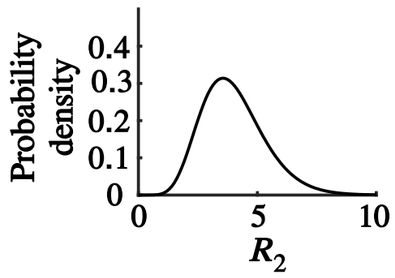


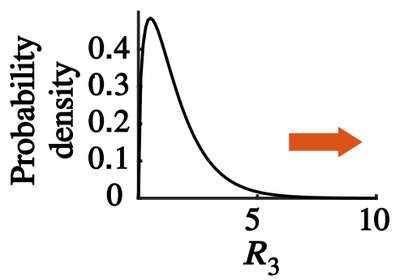
(4) Repeat steps (1-3) until M matches are obtained





(5) Generate posterior for R_t





(6) Generate temporal posterior for R_t for t = 2,3,…