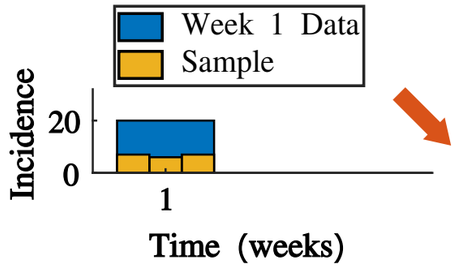
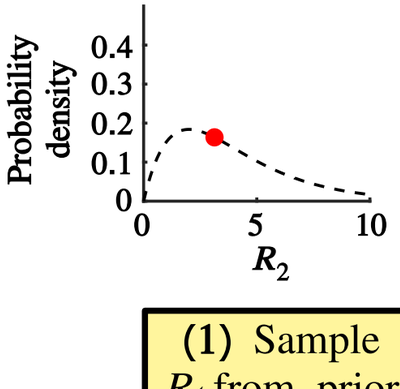
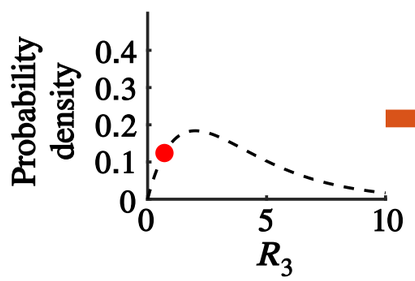
(0) Initialise incidence partitioning



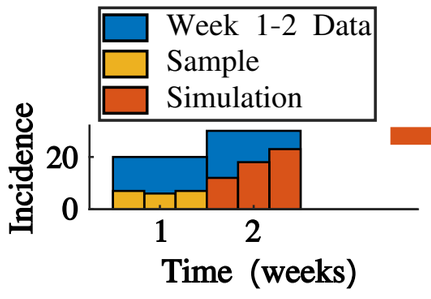


(1) Sample R_t from prior

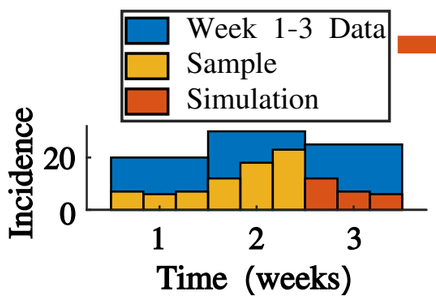


(2) Simulate epidemic over P partitioned time-steps

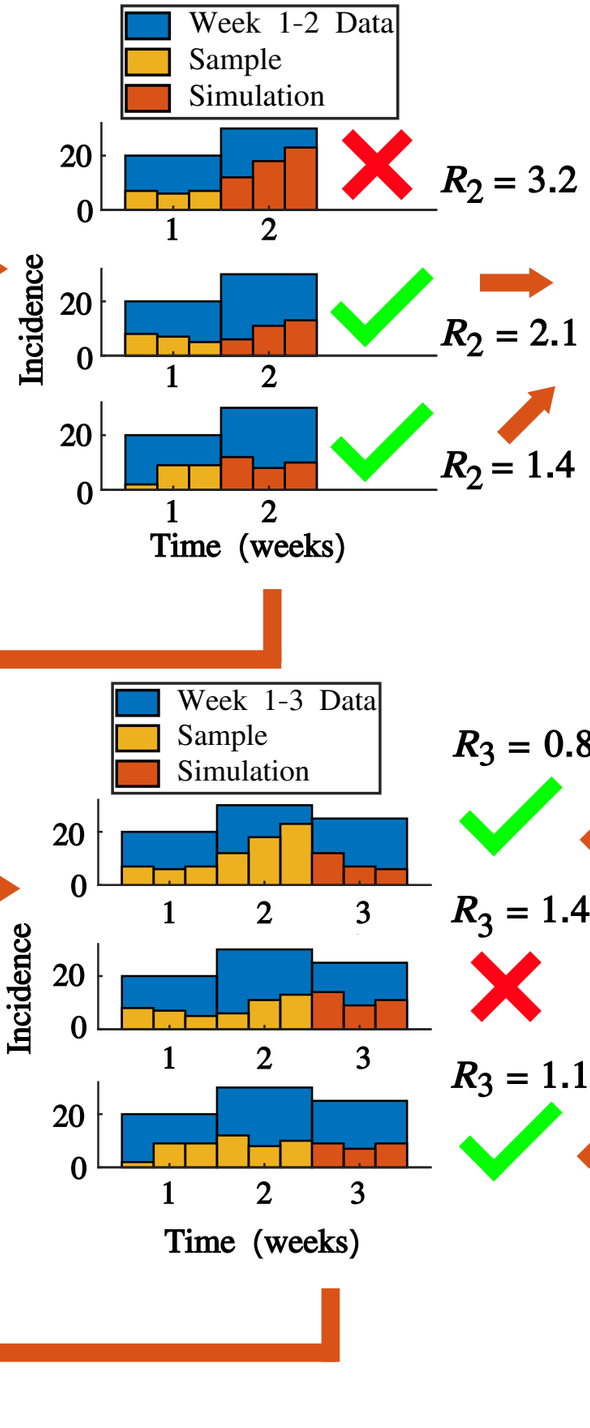
$R_2 = 3.2$



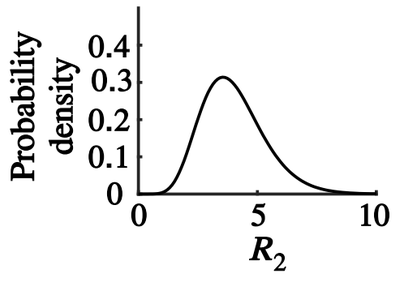
$R_3 = 0.8$

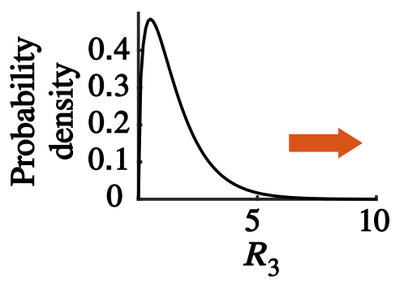


(3) Repeat step (2) until M matches are obtained



(4) Generate posterior for R_t





(5) Generate temporal posterior for R_t for $t = 1,2,\ldots T$