

Plateau model:

$$\dot{S} = -\frac{\beta SI}{(1 + D/D_c)^a} \quad (1)$$

$$\dot{E} = \frac{\beta SI}{(1 + D/D_c)^a} - \mu E \quad (2)$$

$$\dot{I} = \mu E - \gamma I \quad (3)$$

$$\dot{H} = f_H \gamma I - \gamma_H H \quad (4)$$

$$\dot{R} = (1 - f_H) \gamma I + \gamma_H H (1 - f_D) \quad (5)$$

$$\dot{D} = \gamma_H H f_D \quad (6)$$

where here are some initial parameters:  $\beta = 0.6$ ,  $\mu = 1/2$ ,  $\gamma = 1/6$  (or  $1/4$ ),  $\gamma_H = 1/10$  (or  $1/20$ ),  $f_H = 0.1$ ,  $f_D = 0.2$ ,  $D_c = 10^{-5}$ , and  $a = 4$ .