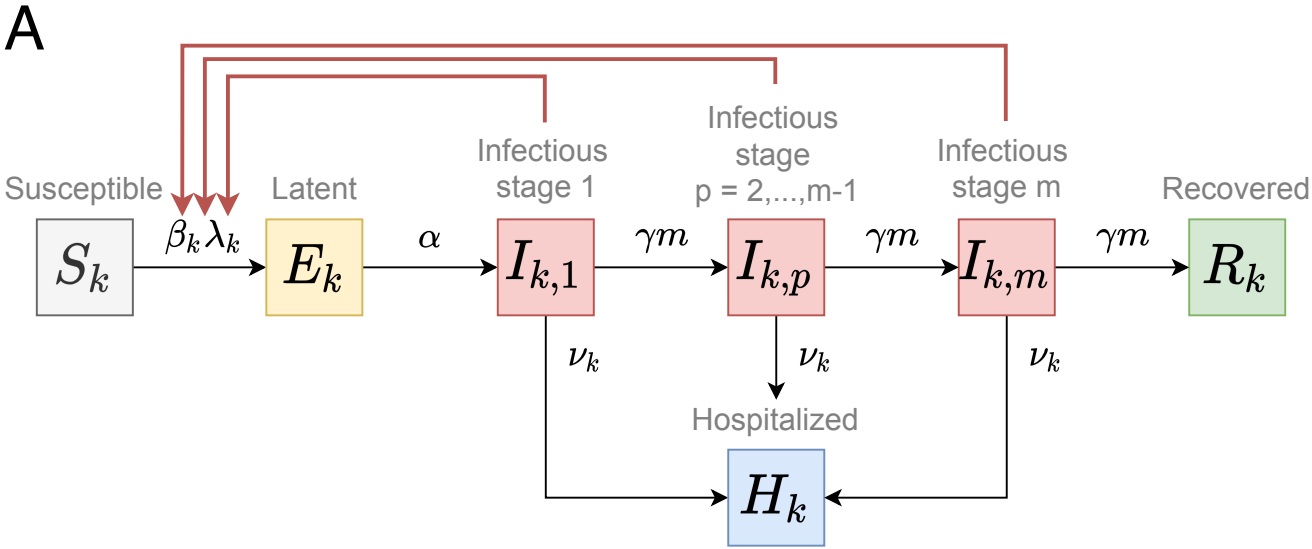
A
Susceptible
Latent
Infectious stage 1
Infectious stage p = 2,...,m-1
Infectious stage m
Recovered
S_k
$\beta_k \lambda_k$
E_k
α
$I_{k,1}$
γm
$I_{k,p}$
γm
$I_{k,m}$
γm
R_k
ν_k
ν_k
ν_k
Hospitalized
H_k