

<p>A</p> $S(t+1) = \text{Bernoulli} \left(S(t), (1-b)^{\sum_{\{f\}} \text{Multinomial}(I'(t), U)} \right)$	<p>B</p> $S'(t+1) = \text{Multinomial}(A_\xi(t+1), F) + \text{Multinomial}(S''(t), LF)$
$E_0(t+1) = S(t) - S(t+1)$	$S''(t+1) = S'(t+1) - \text{Binomial}(\text{Multinomial}(S'(t+1), U), cI(t))$
$E_e(t+1) = E_{e-1}(t)$	$E'_0(t+1) = S'(t+1) - S''(t+1)$
$I_0(t+1) = E_{\sigma-1}(t)$	$E'_e(t+1) = \text{Multinomial}(E'_{e-1}(t), LF)$
$I_i(t+1) = \text{Bernoulli}(I_{i-1}(t), 1 - \rho_{\text{fail}}(i-1))$	$I'(t+1) = \text{Multinomial}(I'(t) + E'_{\tau-1}(t), LF)$
$R(t+1) = R(t) + \left(\sum I_i(t) + E_{\sigma-1}(t) - \sum I_i(t+1) \right)$	