

$$\Lambda_F(t) = \beta(1 - \epsilon(C(t)))\lambda(t)$$

$$\Lambda_M(t) = \beta r_\beta(1 - \hat{\epsilon}(B(t)))\lambda(t)$$

$$\lambda(t) = \frac{r_\beta(I_M + P_M) + I_F + P_F}{A_M + A_F}$$

