patients

HCWs

\( U \)

\( C \)

\( I \)

\( H \)

\( H_c \)

\[
\frac{a(b_{hc} C + b_{hi} I) H}{N_h}
\]

\[
\frac{ab_p U H_c}{N_h}
\]

\[
\phi C
\]

\[
\rho \tau I
\]

\[
\gamma_i I
\]

\[
(1-\lambda_c-\lambda_i) \Lambda
\]

\[
\lambda_c \Lambda
\]

\[
\lambda_i \Lambda
\]

\[
\gamma_u U
\]

\[
\gamma_c C
\]

\[
\gamma_i I
\]

\[
(1-\lambda_c-\lambda_i) \Lambda
\]

\[
\lambda_c \Lambda
\]

\[
\lambda_i \Lambda
\]

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\gamma_u U
\]

\[
\gamma_c C
\]

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\gamma_i I
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(1-\lambda_c-\lambda_i) \Lambda
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\lambda_c \Lambda
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\lambda_i \Lambda
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\gamma_u U
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\gamma_c C
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\gamma_i I
\]