

$$\begin{array}{l}
 \text{Likelihood} \\
 \text{of} \\
 \text{Twenty} \\
 \text{7} \\
 \text{17}
 \end{array}
 = \frac{\text{No. of org} \times \text{Virulence}}{\text{host resistance}}$$

$$\begin{array}{l}
 \text{Antigen} \\
 \text{given}
 \end{array}
 \propto \frac{1}{\text{history taken}}$$