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A mathematical model was developed by Day et al. to address this question. Based on the biomedical literature, a diagram of interactions between various cell types, cytokines, and the bacteria was developed, as shown in Figure 6.

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The calculations from this model showed that universal inoculation against smallpox would increase the life expectancy from 26 years 7 months to 29 years 9 months.

### **Mathematical modelling of infectious disease - Wikipedia**

Theoretical population biology - a field

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