| | covar | shared pars | AIC |
|---|----------------|---|----------|
| G | Flu | all age-spec | 13218.85 |
| Η | Flu | $\delta_a = \delta$ | 13216.32 |
| I | Flu | $\delta_a = \delta, \ \tau_{<5} = \tau_{65+} = 0$ | 13212.32 |
| J | Flu+rhinov | $\delta_a = \delta$, $\tau_{<5} = \tau_{65+} = \theta_{5-14} = \theta_{15-44} = 0$ | 13160.70 |
| K | Flu+rhinov+RSV | $\delta_a = \delta, \tau_{<5} = \tau_{65+} = \theta_{5-14} = \theta_{15-44} =$ | 13143.67 |
| | | $=\zeta_{5-14}=\zeta_{15-44}=0$ | |

 $\bf S1$ $\bf Table$. Multivariate model comparison in terms of AIC and one-step ahead forecast $(\log(s(P,x)))$

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