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| **Table S1. The prior used for estimating** $β\_{2}$ **to** $β\_{6}$**.** |
|  | Interpretation (the level of contact between age groups) | Values according to the contact matrix by Mistry et al. See Fig S12 for details. | Prior used |
| $$β\_{1}$$ | Among <1-year-olds | 1 or 0.89 | Fixed to 1a |
| $$β\_{2}$$ | Among 1- to 14-year-olds | 14.33 | U [5, 60] |
| $$β\_{3}$$ | Among 15- to 50-year-olds | 2.64 | U [0.5, 60] |
| $$β\_{4}$$ | Between >50-year-olds and all age groups | 0.93, 0.90, 1.43, or 2.15 | U [0.1, 5] |
| $$β\_{5}$$ | Between <1-year-olds and 15- to 50-year-olds | 1.45 | U [0.1, 5] |
| $$β\_{6}$$ | Between 1- to 14-year-olds and 15- to 50-year-olds | 1.79 | U [0.1, 5] |
| a Because we estimated the magnitude of $β\_{2}$ to $β\_{6}$ relative to $β\_{1}$, we fixed the value of $β\_{1}$ to 1 in the model.  |