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| --- | --- | --- | --- | --- |
|  | Prior | Distribution | Parameter | |
| Substitution model (Tamura-Nei, TrN) | Rates | Lognormal | Mean= 1.0 | Standard deviation = 1.25 |
| Sites model | Proportion of Invariants | Uniform | Bounds (0,1) | |
| Clock models | Uncorrelated lognormal relaxed clock mean | Uniform | Bounds (0,∞) | |
| Uncorrelated lognormal relaxed clock standard deviation | Gamma | Alpha=0.5 | Beta=0.4 |
| Birth-death epidemiological model\* | Reproduction number | Lognormal | Mean = 1.0 | Standard deviation = 1.0 |
| Become un-infectious rate | Lognormal | Mean= -2.0 | Standard deviation = 0.5 |
| Sampling proportion | Beta | Alpha= 2.0 | Beta= 20.0 |
| Origin | Uniform | Bounds (0,∞) | |
| R using incidence time series | Reproduction number | Gamma | Mean = 4 | Standard deviation = 2.8 |
| Serial Interval Distribution | Shifted gamma (+1) | Mean = 2.5 | Standard deviation = 1.75 |
| Average mean serial interval (Mean=2.5)\*\* | Normal | Bounds (1.25-3.75) | Standard deviation = 0.5 |
| Average standard deviation of the serial interval (Mean=1.75)\*\* | Normal | Bounds (0.25-3) | Standard deviation = 0.75 |