|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model no. | Residual-sporozoite number range | | | | | No. para-meters | **AIC** | | | |
| Zero | 1-10 | 11-100 | 101-1000 | >1000 | **Humans**‡ | **Mice** | | |
| **with PEV** | **without PEV** | **with PEV** | **all data** **§** |
| 1 | No information on mosquito biting | | | | | 1 | 47.7 | 1048.1 | 125.5 | 1166.3 |
| 2 |  |  |  |  |  | 1 | 47.7 | 1062.2 | 79.6 | 1141.9 |
| 3 |  |  |  |  |  | 2 | 47.9† | 601.2 | 50.7† | 652.9 |
| 4 |  |  |  |  |  | 3 | 47.9† | 579.8 | 48.6† | 628.2 |
| 5 |  |  |  |  |  | 4 | 49.4† | 577.0 | 48.1† | 624.1 |
| 6 |  |  |  |  |  | 5 | 52.3† | **576.6\*** | 49.4† | **623.5\*** |
| 7 |  |  |  |  |  | 4 | 49.3† | 655.7 | 50.8 | 703.0 |
| 8 |  |  |  |  |  | 3 | 44.3† | 816.1 | 52.4 | 868.1 |
| 9 |  |  |  |  |  | 2 | **42.3†\*** | 949.6 | 67.9 | 1016.4 |
| 10 |  |  |  |  |  | 2 | 47.9† | 658.1 | 49.9 | 715.3 |
| 11 |  |  |  |  |  | 2 | 47.4† | 816.7 | 51.5 | 869.2 |
| 12 |  |  |  |  |  | 3 | 49.4† | 656.0 | 49.5 | 703.6 |
| 13 |  |  |  |  |  | 3 | 49.4† | 656.0 | 49.5 | 703.6 |
| 14 |  |  |  |  |  | 3 | 44.3† | 655.0 | 50.7 | 702.9 |
| 15 |  |  |  |  |  | 3 | 44.3† | 590.6 | 50.0 | 640.4 |
| 16 |  |  |  |  |  | 4 | 46.3† | 579.3 | 49.4† | 625.8 |
| 17 |  |  |  |  |  | 4 | 46.3† | 583.3 | **47.7†\*** | 630.9 |

† Setting the lowest residual-sporozoite score (or group of scores) to zero reduced the AIC

‡ For the human dataset including information on the number of “unfed” mosquitoes did not reduce the AIC. These data was not available for the murine system.

§ Dataset with and without PEV using equations [1] and [2] used in Figure 1E of main text