**Table 1.** Estimates for transmission parameters of FMDV in African buffalo.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| parameter |  | SAT-1 | | SAT-2 | | SAT-3 | |
| estimate | 95% CI | estimate | 95% CI | estimate | 95% CI |
| ACUTE INFECTION PARAMETERS | | | | | | | |
| loss of maternal protection | | | |  |  |  |  |
| shape parameter |  | 1.01 | (0.41, 1.68) | 1.35 | (0.77, 2.61) | 1.20 | (0.65, 2.01) |
| mean (years) |  | 0.28 | (0.18, 0.45) | 0.43 | (0.32, 0.60) | 0.35 | (0.23, 0.57) |
| pooled shape parameter |  |  |  | 1.19 | (0.75, 1.81) |  |  |
| pooled mean (years) |  |  |  | 0.37 | (0.29, 0.46) |  |  |
| latent period |  |  |  |  |  |  |  |
| shape parameter | *kE* | 1.2 | (0.1, 8.7) | 1.6 | (0.2, 9.2) | 1.6 | (0.2, 8.3) |
| mean (days) | *µE* | 0.5 | (0.02, 2.4) | 1.3 | (0.1, 3.5) | 2.8 | (0.5, 7.0) |
| infectious period |  |  |  |  |  |  |  |
| shape parameter | *kI* | 11.8 | (3.5, 33.5) | 8.7 | (2.4, 27.0) | 11.8 | (3.3, 35.3) |
| mean (days) | *μI* | 5.7 | (4.4, 7.4) | 4.6 | (3.5, 6.3) | 4.2 | (3.2, 5.8) |
| transmission rate | *β* | 2.8 | (0.8, 11.3) | 1.6 | (0.4, 9.0) | 1.2 | (0.3, 7.8) |
| basic reproduction number | *R*0 | 15.8 | (4.1, 65.6) | 7.5 | (1.9, 41.5) | 5.2 | (1.3, 34.1) |
| CARRIER INFECTION PARAMETERS | | | | | | | |
| carrier fraction |  | 0.90 | (0.70, 0.98) | 0.44 | (0.23, 0.67) | 0.67 | (0.44, 0.86) |
| carrier duration |  |  |  |  |  |  |  |
| shape parameter |  | 3.2 (1.3, 8.5) | | | | | |
| mean (days) |  | 243 | (170, 370) | 180 | (106, 316) | 174 | (104, 298) |
| carrier transmission |  |  |  |  |  |  |  |
| median |  | 0.028 | (0.005, 0.095) | 0.003 | (0, 0.016) | 0.012 | (0.002, 0.044) |
| ANTIBODY DYNAMICS | | | | | | | |
| antibody response duration |  |  |  |  |  |  |  |

[based on EstimatingParametersForFMDVinBuffalo DRAFT V8;

Carrier fraction in email with Simon;

DurationOfCarrierStatus\_FMDVinBuffalo V4;

TransmissionRateFromFMDVCarrierBuffalo DRAFT V3]