|  |  |
| --- | --- |
|  | Parameter estimates (RSE %) |
|  | Models with different threshold  |
|   | Threshold = 4 log10 | Threshold = 5 log10 | Threshold = 6 log10 | Threshold = 7 log10 | Threshold = 8 log10 |
|   | Fixed effect | Random effect SD | Fixed effect | Random effect SD | Fixed effect | Random effect SD | Fixed effect | Random effect SD | Fixed effect | Random effect SD |
| $$R\_{0}$$ | 13.9 (17) | 0.34 (26) | 13 (28) | 0.37 (37) | 13.6 (15) | 0.38 (21) | 14.5 (30) | 0.41 (37) | 14.8 (17) | 0.46 (22) |
| $$δ $$$$(d^{-1})$$ | 0.834 (1) | 0.02 (80) | 0.84 (7) | 0.03 (200) | 0.842 (4) | 0.037 (77) | 0.836 (3) | 0.033 (253) | 0.86 (7) | 0.047 (59) |
| $$p$$($cells^{-1}.d^{-1})$ | $2.75×10^{5}$ (43) | 2.41 (8) | $2.6×10^{5}$ (44) | 2.4 (9) | $2.8×10^{5}$ (49) | 2.35 (8) | $3.01×10^{5}$ (78) | 2.3 (9) | $3.8×10^{5}$ (76) | 2.2 (10) |
| $$γ\_{1}$$ | 0.29 (21) | 0.8 (37) | 0.37 (21) | 0.8 (30) | 0.49 (20) | 0.85 (32) | 0.68 (23) | 0.98 (54) | 1.16 (40) | 1.15 (35) |
| $$γ\_{2}$$ | 0.13 (46) | 0.16 (39) | 0.20 (44) | 0.25 (63) | 0.34 (66) |
| BIC | 2495 | 2496 | 2498 | 2501 | 2510 |

Supplementary Table 2. Parameter estimates of models with different threshold values below which the transmission is set to 5%.