

TABLE 2. Pharmacodynamic model parameter estimates

| Model and parameter | Mean value (CV) for: | | | |
|--------------------------------|-----------------------------|--------------|-------------------------------|--------------|
| | MRSA 8043 and MRSA 8043C0-1 | | MRSA 8282 and MRSA 8282C0-1 | |
| | S | R | S | R |
| Net effect model | | | | |
| g (h^{-1}) | 0.99 (9.16) | 0.66 (2.58) | 0.93 (7.05) | 0.70 (2.84) |
| k (h^{-1}) | 1.56 (5.75) | 1.17 (1.82) | 1.38 (4.72) | 1.10 (2.03) |
| EC_{50} ($\mu\text{g/ml}$) | 0.21 (9.39) | 5.19 (5.22) | 0.18 (8.94) | 2.72 (5.45) |
| R_0 (CFU/ml) | | 1.06 (27.95) | | 1.30 (35.37) |
| N_{\max} (CFU/ml) | 1.13×10^9 (7.16) | | 1.73×10^{10} (11.24) | |
| Growth inhibition model | | | | |
| b (h^{-1}) | 1.48 (5.26) | 1.17 (1.81) | 1.38 (4.69) | 1.10 (1.99) |
| x (h^{-1}) | 0.58 (1.70) | 0.51 (3.57) | 0.46 (2.05) | 0.40 (4.23) |
| EC_{50} ($\mu\text{g/ml}$) | 0.23 (8.96) | 5.10 (5.22) | 0.18 (8.83) | 2.71 (5.45) |
| R_0 (CFU/ml) | | 1.03 (27.16) | | 1.26 (34.80) |
| N_{\max} (CFU/ml) | 1.71×10^9 (7.62) | | 2.30×10^{10} (11.45) | |
| Death stimulation model | | | | |
| b (h^{-1}) | 1.21 (12.93) | 1.20 (11.52) | 1.43 (27.92) | 1.25 (19.74) |
| x (h^{-1}) | 0.43 (30.75) | 0.54 (24.67) | 0.54 (71.62) | 0.55 (43.20) |
| EC_{50} ($\mu\text{g/ml}$) | 0.25 (8.92) | 5.16 (5.29) | 0.19 (8.99) | 2.75 (5.51) |
| E_{\max} | 3.14 (30.42) | 2.19 (24.06) | 2.49 (71.12) | 1.98 (42.44) |
| R_0 (CFU/ml) | | 0.88 (33.48) | | 1.32 (24.37) |
| N_{\max} (CFU/ml) | 2.02×10^9 (13.37) | | 3.05×10^{10} (24.37) | |
| MIC-based model | | | | |
| VG_{\max} (CFU/ml/h) | 1.60×10^9 (17.84) | | 2.09×10^{10} (31.54) | |
| CFU_m (CFU/ml) | 1.33×10^9 (11.99) | | 1.62×10^{10} (21.89) | |
| K_d (h^{-1}) | 0.53 (15.47) | | 0.54 (26.87) | |
| SIT_m | 0.53 (6.86) | 11.61 (4.19) | 0.37 (10.18) | 5.56 (5.11) |
| E_{\max} | 2.37 (15.51) | | 2.24 (27.23) | |
| H | 0.96 (4.36) | | 0.91 (5.54) | |
| R_0 (CFU/ml) | | 0.77 (33.59) | | 0.98 (39.85) |