|  | Best model | Overdispersion test | Overdispersion (95% CI) |
| --- | --- | --- | --- |
| **Hospital** | | | |
| CR P. aeruginosa | Covid-19 prevalence w-2 | 0.0016 | 201 (35, 366) |
| ESBL E. cloacae | No Covid-19 variable | <0.0001 | 39 (24, 54) |
| ESBL E. coli | Pandemic periods w | 0.0350 | 708 (-322, 1737) |
| ESBL K. pneumoniae | No Covid-19 variable | <0.0001 | 106 (58, 154) |
| MRSA | Pandemic periods w | 0.0589 | 492 (-254, 1238) |
| **ICU** | | | |
| CR P. aeruginosa | Covid-19 prevalence w-2 | <0.0001 | 52 (16, 88) |
| ESBL E. cloacae | No Covid-19 variable | 0.0001 | 23 (6, 40) |
| ESBL E. coli | Pandemic periods w | <0.0001 | 25 (8, 41) |
| ESBL K. pneumoniae | Pandemic periods w-1 | <0.0001 | 24 (10, 38) |
| MRSA | Pandemic periods w | 0.0040 | 31 (-2, 65) |