|  | Best model | Variable | Estimate (95% CI) | Standard deviation | Z value |
| --- | --- | --- | --- | --- | --- |
| **Hospital** | | | | | |
| CR P. aeruginosa | Covid-19 prevalence w-2 | Intercept | -1.850 (-1.867, -1.826) | 0.010 | -179.300 |
| CR P. aeruginosa | Covid-19 prevalence w-2 | Incidence w-1 | 0.070 (0.042, 0.093) | 0.013 | 5.200 |
| CR P. aeruginosa | Covid-19 prevalence w-2 | Covid-19 prev. w-2 | 0.060 (0.034, 0.086) | 0.013 | 4.500 |
| CR P. aeruginosa | Covid-19 prevalence w-2 | Carbapenems | 0.040 (0.012, 0.061) | 0.012 | 2.900 |
| ESBL K. pneumoniae | No Covid-19 variable | Intercept | -1.560 (-1.581, -1.541) | 0.010 | -150.700 |
| ESBL K. pneumoniae | No Covid-19 variable | Incidence w-1 | 0.080 (0.054, 0.096) | 0.011 | 6.900 |
| ESBL K. pneumoniae | No Covid-19 variable | 3GC | 0.030 (0.008, 0.050) | 0.011 | 2.700 |
| ESBL E. cloacae | No Covid-19 variable | Intercept | -2.260 (-2.288, -2.226) | 0.016 | -143.200 |
| ESBL E. cloacae | No Covid-19 variable | Incidence w-1 | 0.140 (0.104, 0.167) | 0.016 | 8.500 |
| ESBL E. cloacae | No Covid-19 variable | 3GC | 0.030 (-0.003, 0.060) | 0.016 | 1.800 |
| ESBL E. coli | Pandemic periods w | Intercept | -1.180 (-1.213, -1.147) | 0.017 | -70.200 |
| ESBL E. coli | Pandemic periods w | Incidence w-1 | 0.030 (0.013, 0.051) | 0.010 | 3.300 |
| ESBL E. coli | Pandemic periods w | First wave w | 0.040 (-0.035, 0.115) | 0.038 | 1.100 |
| ESBL E. coli | Pandemic periods w | Strong w | -0.090 (-0.160, -0.019) | 0.036 | -2.500 |
| ESBL E. coli | Pandemic periods w | Mild w | -0.100 (-0.150, -0.043) | 0.027 | -3.600 |
| ESBL E. coli | Pandemic periods w | Low to none w | -0.170 (-0.215, -0.121) | 0.024 | -7.000 |
| ESBL E. coli | Pandemic periods w | 3GC | 0.010 (-0.010, 0.030) | 0.010 | 1.000 |
| MRSA | Pandemic periods w | Intercept | -1.530 (-1.572, -1.498) | 0.019 | -81.900 |
| MRSA | Pandemic periods w | Incidence w-1 | -0.010 (-0.036, 0.011) | 0.012 | -1.000 |
| MRSA | Pandemic periods w | First wave w | -0.060 (-0.139, 0.012) | 0.038 | -1.600 |
| MRSA | Pandemic periods w | Strong w | -0.190 (-0.276, -0.112) | 0.042 | -4.600 |
| MRSA | Pandemic periods w | Mild w | -0.180 (-0.236, -0.123) | 0.029 | -6.200 |
| MRSA | Pandemic periods w | Low to none w | -0.300 (-0.361, -0.245) | 0.030 | -10.300 |
| MRSA | Pandemic periods w | Penicillins | 0.010 (-0.009, 0.032) | 0.010 | 1.100 |
| **ICU** | | | | | |
| CR P. aeruginosa | Covid-19 prevalence w-2 | Intercept | 0.700 (0.662, 0.734) | 0.019 | 37.700 |
| CR P. aeruginosa | Covid-19 prevalence w-2 | Incidence w-1 | 0.120 (0.080, 0.158) | 0.020 | 5.900 |
| CR P. aeruginosa | Covid-19 prevalence w-2 | Covid-19 prev. w-2 | 0.080 (0.041, 0.129) | 0.023 | 3.800 |
| CR P. aeruginosa | Covid-19 prevalence w-2 | Carbapenems | 0.030 (-0.015, 0.083) | 0.025 | 1.400 |
| ESBL K. pneumoniae | Pandemic periods w-1 | Intercept | 0.130 (0.039, 0.224) | 0.047 | 2.800 |
| ESBL K. pneumoniae | Pandemic periods w-1 | Incidence w-1 | 0.060 (0.008, 0.112) | 0.026 | 2.300 |
| ESBL K. pneumoniae | Pandemic periods w-1 | First wave w-1 | 0.200 (-0.017, 0.417) | 0.110 | 1.800 |
| ESBL K. pneumoniae | Pandemic periods w-1 | Strong w-1 | -0.270 (-0.487, -0.059) | 0.109 | -2.500 |
| ESBL K. pneumoniae | Pandemic periods w-1 | Mild w-1 | 0.120 (-0.017, 0.261) | 0.071 | 1.700 |
| ESBL K. pneumoniae | Pandemic periods w-1 | Low to none w-1 | 0.010 (-0.123, 0.152) | 0.070 | 0.200 |
| ESBL K. pneumoniae | Pandemic periods w-1 | 3GC | 0.050 (-0.022, 0.111) | 0.034 | 1.300 |
| ESBL E. cloacae | No Covid-19 variable | Intercept | -0.280 (-0.341, -0.227) | 0.029 | -9.700 |
| ESBL E. cloacae | No Covid-19 variable | Incidence w-1 | 0.040 (-0.014, 0.101) | 0.029 | 1.500 |
| ESBL E. cloacae | No Covid-19 variable | 3GC | 0.050 (-0.003, 0.110) | 0.029 | 1.800 |
| ESBL E. coli | Pandemic periods w | Intercept | 0.210 (0.117, 0.304) | 0.048 | 4.400 |
| ESBL E. coli | Pandemic periods w | Incidence w-1 | 0.040 (-0.016, 0.094) | 0.028 | 1.400 |
| ESBL E. coli | Pandemic periods w | First wave w | -0.080 (-0.310, 0.147) | 0.116 | -0.700 |
| ESBL E. coli | Pandemic periods w | Strong w | -0.400 (-0.616, -0.177) | 0.112 | -3.500 |
| ESBL E. coli | Pandemic periods w | Mild w | -0.150 (-0.292, -0.003) | 0.073 | -2.000 |
| ESBL E. coli | Pandemic periods w | Low to none w | -0.320 (-0.466, -0.168) | 0.076 | -4.200 |
| ESBL E. coli | Pandemic periods w | 3GC | 0.020 (-0.045, 0.093) | 0.035 | 0.700 |
| MRSA | Pandemic periods w | Intercept | -0.090 (-0.209, 0.029) | 0.061 | -1.500 |
| MRSA | Pandemic periods w | Incidence w-1 | 0.050 (-0.016, 0.110) | 0.032 | 1.400 |
| MRSA | Pandemic periods w | First wave w | -0.400 (-0.677, -0.136) | 0.138 | -2.900 |
| MRSA | Pandemic periods w | Strong w | -0.470 (-0.745, -0.193) | 0.141 | -3.300 |
| MRSA | Pandemic periods w | Mild w | -0.400 (-0.608, -0.196) | 0.105 | -3.800 |
| MRSA | Pandemic periods w | Low to none w | -0.380 (-0.541, -0.223) | 0.081 | -4.700 |
| MRSA | Pandemic periods w | Penicillins | -0.000 (-0.081, 0.074) | 0.039 | -0.100 |