|  |  | **ESBL E. cloacae** | | **ESBL E. coli** | | **MRSA** | | **ESBL K. pneumoniae** | | **CR P. aeruginosa** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | IRR (95% CI) | p | IRR (95% CI) | p | IRR (95% CI) | p | IRR (95% CI) | p | IRR (95% CI) | p |
| **Hospital** | | | | | | | | | | | |
| Intercept |  | **0.1 (0.1, 0.11)** | <0.0001 | **0.31 (0.3, 0.32)** | <0.0001 | **0.22 (0.21, 0.22)** | <0.0001 | **0.21 (0.21, 0.21)** | <0.0001 | **0.16 (0.15, 0.16)** | <0.0001 |
| Incidence w-1 |  | **1.14 (1.11, 1.18)** | <0.0001 | **1.03 (1.01, 1.05)** | 0.0010 | 0.99 (0.96, 1.01) | 0.3057 | **1.08 (1.06, 1.1)** | <0.0001 | **1.07 (1.04, 1.1)** | <0.0001 |
| Pandemic periods | First wave | - | - | 1.04 (0.97, 1.12) | 0.2935 | 0.94 (0.87, 1.01) | 0.0994 | - | - | - | - |
|  | Strong | - | - | **0.91 (0.85, 0.98)** | 0.0126 | **0.82 (0.76, 0.89)** | <0.0001 | - | - | - | - |
|  | Mild | - | - | **0.91 (0.86, 0.96)** | 0.0004 | **0.84 (0.79, 0.88)** | <0.0001 | - | - | - | - |
|  | Low to none | - | - | **0.85 (0.81, 0.89)** | <0.0001 | **0.74 (0.7, 0.78)** | <0.0001 | - | - | - | - |
| Covid-19 prev. w-2 |  | - | - | - | - | - | - | - | - | **1.06 (1.03, 1.09)** | <0.0001 |
| Penicillins |  | - | - | - | - | 1.01 (0.99, 1.03) | 0.2663 | - | - | - | - |
| 3rd generation Cephalosporins |  | 1.03 (1, 1.06) | 0.0757 | 1.01 (0.99, 1.03) | 0.3253 | - | - | **1.03 (1.01, 1.05)** | 0.0073 | - | - |
| Imipenem + Meropenem |  | - | - | - | - | - | - | - | - | **1.04 (1.01, 1.06)** | 0.0032 |
| **ICU** | | | | | | | | | | | |
| Intercept |  | **0.75 (0.71, 0.8)** | <0.0001 | **1.23 (1.12, 1.36)** | <0.0001 | 0.91 (0.81, 1.03) | 0.1419 | **1.14 (1.04, 1.25)** | 0.0052 | **2.01 (1.94, 2.08)** | <0.0001 |
| Incidence w-1 |  | 1.04 (0.99, 1.11) | 0.1405 | 1.04 (0.98, 1.1) | 0.1665 | 1.05 (0.98, 1.12) | 0.1471 | **1.06 (1.01, 1.12)** | 0.0209 | **1.13 (1.08, 1.17)** | <0.0001 |
| Pandemic periods | First wave | - | - | 0.92 (0.73, 1.16) | 0.4863 | **0.67 (0.51, 0.87)** | 0.0034 | - | - | - | - |
|  | Strong | - | - | **0.67 (0.54, 0.84)** | 0.0004 | **0.63 (0.47, 0.82)** | 0.0009 | - | - | - | - |
|  | Mild | - | - | **0.86 (0.75, 1)** | 0.0431 | **0.67 (0.54, 0.82)** | 0.0001 | - | - | - | - |
|  | Low to none | - | - | **0.73 (0.63, 0.85)** | <0.0001 | **0.68 (0.58, 0.8)** | <0.0001 | - | - | - | - |
| Pandemic periods w-1 | First wave | - | - | - | - | - | - | 1.22 (0.98, 1.52) | 0.0702 | - | - |
| Pandemic periods w-1 | Strong | - | - | - | - | - | - | **0.76 (0.61, 0.94)** | 0.0127 | - | - |
| Pandemic periods w-1 | Mild | - | - | - | - | - | - | 1.13 (0.98, 1.3) | 0.0849 | - | - |
| Pandemic periods w-1 | Low to none | - | - | - | - | - | - | 1.01 (0.88, 1.16) | 0.8419 | - | - |
| Covid-19 prev. w-2 |  | - | - | - | - | - | - | - | - | **1.09 (1.04, 1.14)** | 0.0002 |
| Penicillins |  | - | - | - | - | 1 (0.92, 1.08) | 0.9211 | - | - | - | - |
| 3rd generation Cephalosporins |  | 1.05 (1, 1.12) | 0.0644 | 1.02 (0.96, 1.1) | 0.4911 | - | - | 1.05 (0.98, 1.12) | 0.1833 | - | - |
| Imipenem + Meropenem |  | - | - | - | - | - | - | - | - | 1.03 (0.99, 1.09) | 0.1738 |