|  |  | **ESBL E. cloacae** | | **ESBL K. pneumoniae** | | **ESBL E. coli** | | **MRSA** | | **CR P. aeruginosa** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | IRR | p-value | IRR | p-value | IRR | p-value | IRR | p-value | IRR | p-value |
| **Hospital** | | | | | | | | | | | |
| Intercept |  | **0.1 (0.1-0.11)** | 0.000 | **0.21 (0.21-0.21)** | 0.000 | **0.31 (0.3-0.32)** | 0.000 | **0.22 (0.21-0.22)** | 0.000 | **0.16 (0.15-0.16)** | 0.000 |
| Incidence w-1 |  | **1.14 (1.11-1.18)** | 0.000 | **1.08 (1.06-1.1)** | 0.000 | **1.03 (1.01-1.05)** | 0.001 | 0.99 (0.96-1.01) | 0.306 | **1.07 (1.04-1.09)** | 0.000 |
| Pandemic periods | First wave | - | - | - | - | 1.04 (0.97-1.12) | 0.294 | 0.94 (0.87-1.01) | 0.099 | - | - |
|  | Strong | - | - | - | - | **0.91 (0.85-0.98)** | 0.013 | **0.82 (0.76-0.89)** | 0.000 | - | - |
|  | Mild | - | - | - | - | **0.91 (0.86-0.96)** | 0.000 | **0.84 (0.79-0.88)** | 0.000 | - | - |
|  | Low to none | - | - | - | - | **0.85 (0.81-0.89)** | 0.000 | **0.74 (0.7-0.78)** | 0.000 | - | - |
| Covid-19 intubation prev. w-2 |  | - | - | - | - | - | - | - | - | **1.06 (1.04-1.09)** | 0.000 |
| Penicillins |  | - | - | - | - | - | - | 1.01 (0.99-1.03) | 0.266 | - | - |
| 3rd generation Cephalosporins |  | 1.03 (1-1.06) | 0.076 | **1.03 (1.01-1.05)** | 0.007 | 1.01 (0.99-1.03) | 0.325 | - | - | - | - |
| Imipenem + Meropenem |  | - | - | - | - | - | - | - | - | **1.04 (1.01-1.06)** | 0.003 |
| **ICU** | | | | | | | | | | | |
| Intercept |  | **0.75 (0.71-0.8)** | 0.000 | **1.14 (1.04-1.25)** | 0.005 | **1.23 (1.12-1.36)** | 0.000 | 0.91 (0.81-1.03) | 0.142 | **2.01 (1.94-2.08)** | 0.000 |
| Incidence w-1 |  | 1.04 (0.99-1.11) | 0.140 | **1.07 (1.02-1.13)** | 0.006 | 1.04 (0.98-1.1) | 0.166 | 1.05 (0.98-1.12) | 0.147 | **1.12 (1.08-1.16)** | 0.000 |
| Pandemic periods | First wave | - | - | 1.18 (0.95-1.48) | 0.129 | 0.92 (0.73-1.16) | 0.486 | **0.67 (0.51-0.87)** | 0.003 | - | - |
|  | Strong | - | - | **0.76 (0.62-0.94)** | 0.013 | **0.67 (0.54-0.84)** | 0.000 | **0.63 (0.47-0.82)** | 0.001 | - | - |
|  | Mild | - | - | 1.11 (0.96-1.28) | 0.146 | **0.86 (0.75-1)** | 0.043 | **0.67 (0.54-0.82)** | 0.000 | - | - |
|  | Low to none | - | - | 1.03 (0.89-1.18) | 0.708 | **0.73 (0.63-0.85)** | 0.000 | **0.68 (0.58-0.8)** | 0.000 | - | - |
| Covid-19 intubation prev. w-2 |  | - | - | - | - | - | - | - | - | **1.09 (1.05-1.14)** | 0.000 |
| Penicillins |  | - | - | - | - | - | - | 1 (0.92-1.08) | 0.921 | - | - |
| 3rd generation Cephalosporins |  | 1.05 (1-1.12) | 0.064 | 1.05 (0.98-1.13) | 0.141 | 1.02 (0.96-1.1) | 0.491 | - | - | - | - |
| Imipenem + Meropenem |  | - | - | - | - | - | - | - | - | 1.04 (0.99-1.09) | 0.092 |