*Epidemiology and Infection*

**Time series analysis and forecasting of chlamydia trachomatis incidence using surveillance data from 2008 to 2019 in Shenzhen, China**

**Authors**

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Supplementary Material

**Supplementary Table S1** The AIC and SBC value of all SARIMA models

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Models | AIC | SBC | Models | AIC | SBC |
| SARIMA (0,1,1)(0,1,1)12 | 436.08  | 444.26  | SARIMA (0,1,1)(0,1,0)12 | 494.30  | 499.76  |
| SARIMA (1,1,1)(0,1,1)12 | 436.96  | 447.87  | SARIMA (1,1,1)(0,1,0)12 | 496.30  | 504.48  |
| SARIMA (2,1,1)(0,1,1)12 | 437.51  | 451.15  | SARIMA (2,1,1)(0,1,0)12 | 495.84  | 506.75  |
| SARIMA (3,1,1)(0,1,1)12 | 436.64  | 453.00  | SARIMA (3,1,1)(0,1,0)12 | 493.97  | 507.61  |
| SARIMA (6,1,1)(0,1,1)12 | 438.56  | 463.11  | SARIMA (6,1,1)(0,1,0)12 | 491.28  | 513.10  |
| SARIMA (0,1,0)(0,1,1)12 | 473.33  | 478.79  | SARIMA (0,1,0)(0,1,0)12 | 533.25  | 535.97  |
| SARIMA (1,1,0)(0,1,1)12 | 446.08  | 454.26  | SARIMA (1,1,0)(0,1,0)12 | 512.79  | 518.25  |
| SARIMA (2,1,0)(0,1,1)12 | 437.21  | 448.12  | SARIMA (2,1,0)(0,1,0)12 | 497.74  | 505.92  |
| SARIMA (3,1,0)(0,1,1)12 | 435.91  | 449.55  | SARIMA (3,1,0)(0,1,0)12 | 493.54  | 504.45  |
| SARIMA (6,1,0)(0,1,1)12 | 436.81  | 458.63  | SARIMA (6,1,0)(0,1,0)12 | 489.45  | 508.54  |
| SARIMA (0,1,5)(0,1,1)12 | 438.69  | 457.78  | SARIMA (0,1,5)(0,1,0)12 | 491.21  | 507.58  |
| SARIMA (1,1,5)(0,1,1)12 | 440.34  | 462.16  | SARIMA (1,1,5)(0,1,0)12 | 492.37  | 511.46  |
| SARIMA (2,1,5)(0,1,1)12 | 433.25  | 457.80  | SARIMA (2,1,5)(0,1,0)12 | 489.46  | 511.28  |
| SARIMA (3,1,5)(0,1,1)12 | 435.13  | 462.40  | SARIMA (3,1,5)(0,1,0)12 | 490.77  | 515.31  |
| SARIMA (6,1,5)(0,1,1)12 | 439.04  | 474.49  | SARIMA (6,1,5)(0,1,0)12 | 478.11  | 510.83  |
| SARIMA (0,1,7)(0,1,1)12 | 438.29  | 462.83  | SARIMA (0,1,7)(0,1,0)12 | 478.83  | 500.65  |
| SARIMA (1,1,7)(0,1,1)12 | 440.22  | 467.49  | SARIMA (1,1,7)(0,1,0)12 | 480.57  | 505.12  |
| SARIMA (2,1,7)(0,1,1)12 | 442.22  | 472.22  | SARIMA (2,1,7)(0,1,0)12 | 481.40  | 508.67  |
| SARIMA (3,1,7)(0,1,1)12 | 438.95  | 471.67  | SARIMA (3,1,7)(0,1,0)12 | 483.38  | 513.39  |
| SARIMA (6,1,7)(0,1,1)12 | 442.34  | 483.25  | SARIMA (6,1,7)(0,1,0)12 | 474.48  | 512.66  |

***Abbreviation*:** AIC= Akaike Information Criterion, SBC= Schwartz Bayesian Criterion.