**Supplementary Table S3: Summary statistics values of performance indicators for the 2-5 year-old Female category. For each indicator the median [Minimum-Maximum] values for each age sex category, each outbreak duration and magnitude are presented. Parameters for each algorithm were: Shewart: K=1.3; CUSUM: H=2; EWMA: Lambda=0.4 and L=1.3; negative binomial: CI80%.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Sensitivity  Median (min-max) | Specificity  Median (min-max) | Precocity  Median (min-max) |
| Spike |  |  |  |  |
| Shewart |  | 0.96[0.81-0.99] | 0.94[0.93-0.96] |  |
| CUSUM |  | 0.96[0.83-0.99] | 0.93[0.91-0.95] |  |
| EWMA |  | 0.72[0.55-0.79] | 0.96[0.95-0.96] |  |
| Negative binomial |  | 0.98[0.85-1.00] | 0.90[0.90-0.90] |  |
| Flat |  |  |  |  |
| Shewart |  | 1.00[0.93-1.00] | 0.98[0.95-0.99] | 1.19[1.02-1.79] |
| CUSUM |  | 1.00[0.97-1.00] | 0.99[0.94-1.00] | 1.18[1.02-1.69] |
| EWMA |  | 0.85[0.62-0.97] | 0.99[0.96-1.00] | 2.87[1.47-3.81] |
| Negative binomial |  | 1.00[0.98-1.00] | 0.96[0.92-0.99] | 1.04[1.00-1.49] |
| Linear |  |  |  |  |
| Shewart |  | 0.99[0.86-1.00] | 0.97[0.94-0.99] | 2.19[1.16-4.12] |
| CUSUM |  | 1.00[0.93-1.00] | 0.98[0.93-1.00] | 1.99[1.14-3.71] |
| EWMA |  | 0.85[0.56-1.00] | 0.98[0.96-0.99] | 3.60[1.82-5.73] |
| Negative binomial |  | 1.00[0.92-1.00] | 0.95[0.92-0.98] | 1.77[1.06-3.64] |
| Exponential |  |  |  |  |
| Shewart |  | 1.00[0.90-1.00] | 0.97[0.94-0.99] | 1.7[01.07-4.47] |
| CUSUM |  | 1.00[0.94-1.00] | 0.98[0.94-1.00] | 1.59[1.07-3.93] |
| EWMA |  | 0.86[0.58-0.99] | 0.97[0.96-0.99] | 3.46[1.71-6.23] |
| Negative binomial |  | 1.00[0.94-1.00] | 0.96[0.92-0.98] | 1.40[1.03-3.98] |