**Supplementary Table S4: Summary statistics values of performance indicators the over 5 years-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 |  | 0.97[0.87-1.00] | 0.95[0.93-0.96] |  |
| CUSUM |  | 0.99[0.92-1.00] | 0.93[0.89-0.95] |  |
| EWMA |  | 0.73[0.54-0.81] | 0.97[0.96-0.97] |  |
| Negative binomial |  | 0.99[0.91-1.00] | 0.99[0.91-1.00] |  |
| Flat |  |  |  |  |
| Shewart |  | 1.00[0.98-1.00] | 0.98[0.95-0.99] | 1.09[1.01-1.60] |
| CUSUM |  | 1.00[0.99-1.00] | 0.99[0.94-1.00] | 1.09[1.00-1.37] |
| EWMA |  | 0.91[0.67-0.99] | 0.99[0.96-1.00] | 2.87[1.43-3.81] |
| Negative binomial |  | 1.00[0.99-1.00] | 0.97[0.94-0.99] | 1.01[1.00-1.28] |
| Linear |  |  |  |  |
| Shewart |  | 1.00[0.92-1.00] | 0.97[0.94-0.99] | 2.06[1.09-4.14] |
| CUSUM |  | 1.00[0.97-1.00] | 0.98[0.92-1.00] | 1.86[1.06-3.50] |
| EWMA |  | 0.90[0.62-1.00] | 0.97[0.96-0.99] | 3.59[1.79-5.98] |
| Negative binomial |  | 1.00[0.96-1.00] | 0.96[0.94-0.99] | 1.73[1.02-3.78] |
| Exponential |  |  |  |  |
| Shewart |  | 1.00[0.95-1.00] | 0.97[0.94-0.99] | 1.58[1.03-4.43] |
| CUSUM |  | 1.00[0.98-1.00] | 0.98[0.93-1.00] | 1.41[1.03-3.66] |
| EWMA |  | 0.91[0.62-1.00] | 0.97[0.96-0.99] | 3.43[1.69-6.37] |
| Negative binomial |  | 1.00[0.97-1.00] | 0.97[0.94-0.99] | 1.31[1.01-4.24] |