**Supplementary Table S2: Summary statistics values of performance indicators for the 2-5 year-old Male 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 |  | 0.66[0.48-0.73] | 0.91[0.90-0.92] |  |
| CUSUM |  | 0.52[0.30-0.64] | 0.96[0.95-0.97] |  |
| EWMA |  | 0.50[0.36-0.56] | 0.93[0.92-0.95] |  |
| Negative binomial |  | 0.69[0.50-0.78] | 0.90[0.89-0.90] |  |
| Flat |  |  |  |  |
| Shewart |  | 0.94[0.71-0.99] | 0.95[0.91-0.98] | 1.67[1.24-2.68] |
| CUSUM |  | 0.89[0.55-1.00] | 0.99[0.97-1.00] | 2.01[1.33-3.22] |
| EWMA |  | 0.68[0.44-0.89] | 0.99[0.94-0.99] | 2.65[1.46-3.74] |
| Negative binomial |  | 0.98[0.75-1.00] | 0.93[0.92-0.97] | 1.40[1.16-2.15] |
| Linear |  |  |  |  |
| Shewart |  | 0.88[0.65-0.98] | 0.93[0.91-0.96] | 2.53[1.46-4.53] |
| CUSUM |  | 0.81[0.44-0.98] | 0.98[0.96-1.00] | 2.96[1.70-5.29] |
| EWMA |  | 0.62[0.34-0.88] | 0.97[0.93-0.99] | 3.31[1.62-5.85] |
| Negative binomial |  | 0.94[0.70-1.00] | 0.93[0.91-0.95] | 2.20[1.31-3.76] |
| Exponential |  |  |  |  |
| Shewart |  | 0.87[0.66-0.95] | 0.93[0.91-0.95] | 2.39[1.37-4.69] |
| CUSUM |  | 0.78[0.48-0.96] | 0.98[0.96-0.99] | 2.77[1.55-5.43] |
| EWMA |  | 0.64[0.38-0.87] | 0.97[0.93-0.99] | 3.21[1.58-6.09] |
| Negative binomial |  | 0.93[0.71-0.99] | 0.93[0.92-0.95] | 2.05[1.30-4.22] |