



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

March 2015

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
March 2015

| Hospital | District | Sample | Flu | Flu % | Flu A | Flu B | Flu A+B | Flu A/H1 | Flu A/H3 | Flu A/H5 | (H1N1)pdm09 |
|----------|-------------|------------|-----------|-------------|-----------|----------|----------|----------|----------|----------|-------------|
| DNMCH | Dhaka | 12 | 2 | 17% | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| CBMCH | Mymensingh | 14 | 1 | 7% | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| JIMCH | Kishoregonj | 34 | 4 | 12% | 2 | 2 | 0 | 0 | 0 | 0 | 2 |
| RMCH | Rajshahi | 18 | 1 | 6% | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| SZRMCH | Bogra | 34 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LAMB | Dinajpur | 8 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BBMH | Chittagong | 3 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CoMCH | Comilla | 33 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KMCH | Khulna | 12 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JGH | Jessore | 36 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| JRRMCH | Sylhet | 29 | 1 | 3% | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| SBMCH | Barisal | 35 | 2 | 6% | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| CMCH | Chittagong | 17 | 0 | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DjMCH | Dinajpur | 16 | 1 | 6% | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 301 | 12 | 4.0% | 10 | 2 | 0 | 0 | 0 | 0 | 10 |

Hospital based influenza surveillance
Monthly enrollement by different surveillance groups
March 2015

| Hospital | District | SARI [†] | | | ILI [‡] | | | Severe Pneumonia [¥] | | |
|----------|-------------|-------------------|----------|-----------|------------------|----------|-----------|-------------------------------|----------|-----------|
| | | Sample | Flu | Flu % | Sample | Flu | Flu % | Sample | Flu | Flu % |
| DNMCH | Dhaka | 7 | 2 | 29% | - | - | - | 5 | 0 | 0% |
| CBMCH | Mymensingh | 9 | 1 | 11% | - | - | - | 5 | 0 | 0% |
| JIMCH | Kishoregonj | 16 | 2 | 13% | 13 | 2 | 15% | 5 | 0 | 0% |
| RMCH | Rajshahi | 13 | 1 | 8% | - | - | - | 5 | 0 | 0% |
| SZRMCH | Bogra | 14 | 0 | 0% | 15 | 0 | 0% | 5 | 0 | 0% |
| LAMB | Dinajpur | 3 | 0 | 0% | - | - | - | 5 | 0 | 0% |
| BBMH | Chittagong | 1 | 0 | 0% | - | - | - | 2 | 0 | 0% |
| CoMCH | Comilla | 9 | 0 | 0% | 19 | 0 | 0% | 5 | 0 | 0% |
| KMCH | Khulna | 7 | 0 | 0% | - | - | - | 5 | 0 | 0% |
| JGH | Jessore | 12 | 0 | 0% | 19 | 0 | 0% | 5 | 0 | 0% |
| JRRMCH | Sylhet | 7 | 1 | 14% | 17 | 0 | 0% | 5 | 0 | 0% |
| SBMCH | Barisal | 12 | 1 | 8% | 16 | 1 | 6% | 7 | 0 | 0% |
| CMCH | Chittagong | 12 | 0 | 0% | - | - | - | 5 | 0 | 0% |
| DjMCH | Dinajpur | 11 | 1 | 9% | - | - | - | 5 | 0 | 0% |
| | | 133 | 9 | 7% | 99 | 3 | 3% | 69 | 0 | 0% |

[†] All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatric inpatients.

[‡] All ILI samples (all age groups) collected during 4 days in each month from both medicine and pediatrics OPD of selected six hospitals.

[¥] First five Severe Pneumonia samples (aged < 5 years) collected from pediatric inpatients. More than five severe pneumonia cases belong to the cluster.

Hospital based influenza surveillance
Influenza results by different age groups
March 2015

| Age groups | March 2015 | | | | | | | | | Initiation - March 2015 | | | | | | | | |
|-------------|-------------------|----------|-----------|------------------|----------|-----------|-------------------------------|----------|-----------|-------------------------|--------------|------------|------------------|--------------|------------|-------------------------------|------------|-----------|
| | SARI [†] | | | ILI [‡] | | | Severe Pneumonia [¥] | | | SARI [†] | | | ILI [‡] | | | Severe Pneumonia [¥] | | |
| | Sample | Flu | Flu % | Sample | Flu | Flu % | Sample | Flu | Flu % | Sample | Flu | Flu % | Sample | Flu | Flu % | Sample | Flu | Flu % |
| <1 Year | - | - | - | 17 | 0 | 0% | 54 | 0 | 0% | - | - | - | 2142 | 146 | 7% | 3586 | 132 | 4% |
| 1-4 Years | - | - | - | 33 | 2 | 6% | 15 | 0 | 0% | - | - | - | 3396 | 458 | 13% | 1049 | 88 | 8% |
| 5-14 Years | 26 | 3 | 12% | 14 | 0 | 0% | - | - | - | 1306 | 253 | 19% | 1863 | 412 | 22% | - | - | - |
| 15-24 Years | 7 | 0 | 0% | 15 | 0 | 0% | - | - | - | 1711 | 349 | 20% | 1812 | 336 | 19% | - | - | - |
| 25-39 Years | 27 | 1 | 4% | 12 | 0 | 0% | - | - | - | 1784 | 343 | 19% | 1608 | 249 | 15% | - | - | - |
| 40-59 Years | 33 | 1 | 3% | 5 | 1 | 20% | - | - | - | 1977 | 330 | 17% | 1010 | 149 | 15% | - | - | - |
| ≥ 60 Years | 40 | 4 | 10% | 3 | 0 | 0% | - | - | - | 2024 | 333 | 16% | 325 | 33 | 10% | - | - | - |
| | 133 | 9 | 7% | 99 | 3 | 3% | 69 | 0 | 0% | 8,802 | 1,608 | 18% | 12,156 | 1,783 | 15% | 4,635 | 220 | 5% |

[†] All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatric inpatients.

[‡] All ILI samples (all age groups) collected during 4 days in each month from both medicine and pediatrics OPD of selected six hospitals.

[¥] First five Severe Pneumonia samples (aged < 5 years) collected from pediatric inpatients. More than five severe pneumonia cases belong to the cluster.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - March 2015

| Hospital | District | Initiation | Sample | Flu | Flu % | Flu A | Flu B | Flu A+B | Flu A/H1 | Flu A/H3 | Flu A/H5 | (H1N1)pdm09 |
|----------|---------------------------|------------|---------------|--------------|------------|--------------|--------------|----------|------------|--------------|----------|-------------|
| DNMCH | Dhaka | Jun 2007 | 1527 | 224 | 15% | 134 | 90 | 0 | 15 | 56 | 0 | 63 |
| CBMCH | Mymensingh | Oct 2007 | 1502 | 212 | 14% | 143 | 69 | 0 | 7 | 79 | 0 | 57 |
| JIMCH | Kishoregonj* [‡] | Sep 2007 | 2678 | 482 | 18% | 320 | 162 | 0 | 9 | 183 | 0 | 127 |
| RMCH | Rajshahi | May 2007 | 1805 | 173 | 10% | 113 | 60 | 0 | 14 | 64 | 0 | 35 |
| SZRMCH | Bogra* | Sep 2007 | 2691 | 392 | 15% | 249 | 143 | 0 | 12 | 142 | 0 | 95 |
| LAMB | Dinajpur | Oct 2007 | 1077 | 101 | 9% | 62 | 39 | 0 | 7 | 40 | 0 | 15 |
| BBMH | Chittagong | Aug 2007 | 1318 | 138 | 10% | 102 | 36 | 0 | 13 | 35 | 0 | 54 |
| CoMCH | Comilla | Oct 2007 | 3251 | 428 | 13% | 282 | 144 | 2 | 9 | 149 | 0 | 126 |
| KMCH | Khulna | Jul 2007 | 1643 | 212 | 13% | 151 | 61 | 0 | 16 | 87 | 0 | 48 |
| JGH | Jessore | Sep 2007 | 2408 | 396 | 16% | 260 | 136 | 0 | 10 | 147 | 0 | 103 |
| JRRMCH | Sylhet | Jul 2007 | 2254 | 365 | 16% | 228 | 137 | 0 | 16 | 112 | 0 | 100 |
| SBMCH | Barisal | Aug 2007 | 3025 | 411 | 14% | 262 | 146 | 3 | 9 | 137 | 0 | 119 |
| CMCH | Chittagong | Apr 2014 | 218 | 32 | 15% | 18 | 14 | 0 | 0 | 18 | 0 | 0 |
| DjMCH | Dinajpur* | Apr 2014 | 196 | 45 | 23% | 26 | 19 | 0 | 0 | 24 | 0 | 2 |
| | | | 25,593 | 3,611 | 14% | 2,350 | 1,256 | 5 | 137 | 1,273 | 0 | 944 |

*One sample will be repeated

[‡]One sample collected in May 2013 was co-infected with both A(H3) and A(H1N1)pdm09

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - March 2015

