

## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**April 2016**

**Hospital based influenza surveillance**  
**Monthly hospitalwise influenza lab results**  
**April 2016**

Hospital	District	Sample	Flu	Flu %	Flu A	Flu B	Flu A+B	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH	Dhaka	17	9	53%	6	3	0	0	6	0	0	3	0
CBMCH	Mymensingh	16	2	13%	1	1	0	0	1	0	0	0	1
JIMCH	Kishoregonj	40	10	25%	3	7	0	0	3	0	0	2	5
RMCH	Rajshahi	24	4	17%	1	3	0	0	1	0	0	0	3
SZRMCH	Bogra <sup>λ</sup>	29	6	21%	2	3	1	0	2	0	0	0	3
LAMB	Dinajpur	3	0	0%	0	0	0	0	0	0	0	0	0
BBMH	Chittagong	11	6	55%	4	2	0	0	3	0	1	2	0
CoMCH	Comilla	35	4	11%	0	4	0	0	0	0	0	4	0
KMCH	Khulna	16	5	31%	0	5	0	0	0	0	0	2	3
JGH	Jessore <sup>γ</sup>	35	8	23%	2	6	0	0	2	0	0	1	4
JRRMCH	Sylhet	22	3	14%	1	2	0	0	1	0	0	1	1
SBMCH	Barisal	58	26	45%	4	22	0	0	4	0	0	10	12
CMCH	Chittagong <sup>φ</sup>	30	14	47%	4	9	1	0	3	0	1	5	4
DjMCH	Dinajpur	24	1	4%	0	1	0	0	0	0	0	1	0
		<b>360</b>	<b>98</b>	<b>27%</b>	<b>28</b>	<b>68</b>	<b>2</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>2</b>	<b>31</b>	<b>36</b>

<sup>λ</sup>One sample was co-infected with both Influenza A (H3) and for Influenza B (Yamagata lineage)

<sup>γ</sup>One sample was co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage)

<sup>φ</sup>One sample was co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage)

**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**April 2016**

Hospital	District	SARI <sup>†</sup>			ILI <sup>‡</sup>			Severe Pneumonia <sup>¥</sup>		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	12	7	58%	0	-	-	5	2	40%
CBMCH	Mymensingh	11	2	18%	0	-	-	5	0	0%
JIMCH	Kishoregonj	22	7	32%	13	3	23%	5	0	0%
RMCH	Rajshahi	19	4	21%	0	-	-	5	0	0%
SZRMCH	Bogra	13	4	31%	11	2	18%	5	0	0%
LAMB	Dinajpur	0	0	0%	0	-	-	3	0	0%
BBMH	Chittagong	6	5	83%	0	-	-	5	1	20%
CoMCH	Comilla	11	1	9%	19	2	11%	5	1	20%
KMCH	Khulna	11	5	45%	0	-	-	5	0	0%
JGH	Jessore	15	8	53%	15	0	0%	5	0	0%
JRRMCH	Sylhet	10	1	10%	7	2	29%	5	0	0%
SBMCH	Barisal	27	13	48%	25	12	48%	6	1	17%
CMCH	Chittagong	25	14	56%	0	-	-	5	0	0%
DJMCH	Dinajpur	19	1	5%	0	-	-	5	0	0%
		<b>201</b>	<b>72</b>	<b>36%</b>	<b>90</b>	<b>21</b>	<b>23%</b>	<b>69</b>	<b>5</b>	<b>7%</b>

<sup>†</sup> All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

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

<sup>¥</sup> First five Severe Pneumonia samples (aged < 5 years) collected from pediatrics inpatients. More than five severe pneumonia cases belong to the cluster.

**Hospital based influenza surveillance**  
**Influenza results by different age groups**  
**April 2016**

Age groups	April 2016									Initiation - April 2016								
	SARI <sup>†</sup>			ILI <sup>‡</sup>			Severe Pneumonia <sup>¥</sup>			SARI <sup>†</sup>			ILI <sup>‡</sup>			Severe Pneumonia <sup>¥</sup>		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	23	3	13%	61	3	5%	-	-	-	2370	160	7%	4301	164	4%
1-4 Years	-	-	-	25	6	24%	8	2	25%	-	-	-	3735	510	14%	1248	112	9%
5-14 Years	55	17	31%	11	4	36%	-	-	-	1687	321	19%	2056	466	23%	-	-	-
15-24 Years	42	23	55%	14	3	21%	-	-	-	2085	439	21%	1964	366	19%	-	-	-
25-39 Years	25	5	20%	6	2	33%	-	-	-	2130	415	19%	1735	270	16%	-	-	-
40-59 Years	32	12	38%	11	3	27%	-	-	-	2411	420	17%	1107	170	15%	-	-	-
≥ 60 Years	47	15	32%	0	0	0%	-	-	-	2524	421	17%	361	38	11%	-	-	-
	<b>201</b>	<b>72</b>	<b>36%</b>	<b>90</b>	<b>21</b>	<b>23%</b>	<b>69</b>	<b>5</b>	<b>7%</b>	<b>10,837</b>	<b>2,016</b>	<b>19%</b>	<b>13,328</b>	<b>1,980</b>	<b>15%</b>	<b>5,549</b>	<b>276</b>	<b>5%</b>

<sup>†</sup> All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

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

<sup>¥</sup> First five Severe Pneumonia samples (aged < 5 years) collected from pediatrics inpatients. More than five severe pneumonia cases belong to the cluster.

**Hospital based influenza surveillance**  
**Hospitalwise influenza lab results**  
**Surveillance initiation - April 2016**

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A	Flu B*	Flu A+B	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH	Dhaka	Jun 2007	1707	257	15%	159	98	0	15	64	0	80	7	0
CBMCH	Mymensingh	Oct 2007	1704	247	14%	171	76	0	7	84	1	79	5	1
JIMCH	Kishoregonj <sup>‡</sup>	Sep 2007	3151	575	18%	383	192	0	9	195	0	178	17	5
RMCH	Rajshahi	May 2007	2057	192	9%	129	63	0	14	65	0	50	0	3
SZRMCH	Bogra <sup>ⓧ</sup>	Sep 2007	3129	463	15%	312	150	1	12	161	0	138	3	3
LAMB	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	24	1	0
BBMH	Chittagong	Aug 2007	1440	157	11%	118	39	0	13	42	0	63	3	0
CoMCH	Comilla	Oct 2007	3681	482	13%	312	168	2	9	157	0	148	18	0
KMCH	Khulna	Jul 2007	1829	235	13%	169	66	0	16	92	0	61	2	3
JGH	Jessore <sup>‡</sup>	Sep 2007	2736	461	17%	314	147	0	10	162	0	142	2	7
JRRMCH	Sylhet	Jul 2007	2561	416	16%	267	149	0	16	114	0	137	4	3
SBMCH	Barisal <sup>ⓧ</sup>	Aug 2007	3593	506	14%	328	175	3	9	156	0	165	14	13
CMCH	Chittagong <sup>‡</sup>	Apr 2014	522	92	18%	61	30	1	0	30	0	31	8	5
DJMCH	Dinajpur <sup>ⓧ</sup>	Apr 2014	433	77	18%	53	24	0	0	31	0	21	4	0
			<b>29,714</b>	<b>4,272</b>	<b>14%</b>	<b>2,848</b>	<b>1,417</b>	<b>7</b>	<b>137</b>	<b>1,394</b>	<b>1</b>	<b>1,317</b>	<b>88</b>	<b>43</b>

\* Influenza B typing initiated in January 2016

ⓧ rRT-PCR result of one sample was equivocal positive for Influenza A

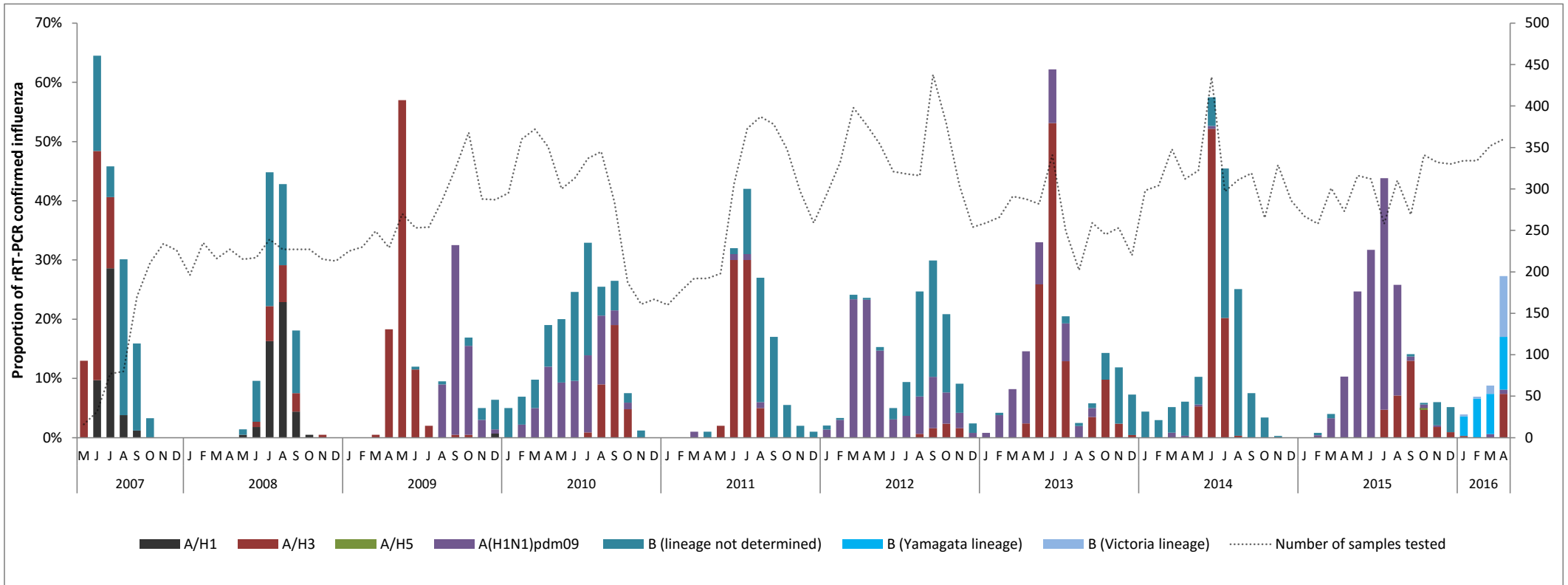
‡ One sample collected in May 2013 was co-infected with both A(H3) and A(H1N1)pdm09

λ One sample collected in April 2016 was co-infected with both Influenza A (H3) and for Influenza B (Yamagata lineage)

‡ One sample collected in April 2016 was co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage)

‡ One sample collected in April 2016 was co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage)

**Hospital based influenza surveillance**  
**Influenza seasonality graph**  
**May 2007 - April 2016**



\*Influenza B typing initiated in January 2016