

## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**June 2016**

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

Hospital	District	Sample <sup>‡</sup>	Flu	Flu %	Flu A	Flu B <sup>λ</sup>	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	14	3	21%	2	1	0	0	2	0	0	0	1
CBMCH	Mymensingh	20	8	40%	5	3	0	0	5	0	0	3	0
JIMCH	Kishoregonj	40	12	30%	10	2	0	0	10	0	0	0	2
RMCH	Rajshahi	29	16	55%	15	1	0	0	15	0	0	0	1
SZRMCH	Bogra	39	22	56%	18	4	0	0	18	0	0	3	0
CoMCH	Comilla	25	3	12%	3	0	0	0	3	0	0	0	0
KMCH	Khulna	17	9	53%	8	1	0	0	8	0	0	0	1
JGH	Jessore	33	24	73%	9	15	0	0	9	0	0	4	11
JRRMCH	Sylhet	33	17	52%	5	11	1	0	5	0	0	4	7
SBMCH	Barisal	42	6	14%	6	0	0	0	6	0	0	0	0
CMCH	Chittagong	25	5	20%	1	4	0	0	1	0	0	0	3
DjMCH	Dinajpur	25	14	56%	13	1	0	0	13	0	0	1	0
		<b>342</b>	<b>139</b>	<b>41%</b>	<b>95</b>	<b>43</b>	<b>1</b>	<b>0</b>	<b>95</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>26</b>

<sup>‡</sup>Analysis excluded seven samples which will undergo repeat rRT-PCR.

<sup>λ</sup>Two samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage).

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

Hospital	District	SARI (aged ≥ 5 years) <sup>‡</sup>			ILI <sup>†</sup>			SARI (aged < 5 years) <sup>‡</sup>		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	9	2	22%	-	-	-	5	1	20%
CBMCH	Mymensingh	15	8	53%	-	-	-	5	0	0%
JIMCH	Kishoregonj	24	8	33%	11	3	27%	5	1	20%
RMCH	Rajshahi	24	13	54%	-	-	-	5	3	60%
SZRMCH	Bogra	23	15	65%	11	6	55%	5	1	20%
CoMCH	Comilla	8	2	25%	12	0	0%	5	1	20%
KMCH	Khulna	12	5	42%	-	-	-	5	4	80%
JGH	Jessore	14	10	71%	14	12	86%	5	2	40%
JRRMCH	Sylhet	16	9	56%	13	8	62%	4	0	0%
SBMCH	Barisal	20	3	15%	16	2	13%	6	1	17%
CMCH	Chittagong	20	4	20%	-	-	-	5	1	20%
DjMCH	Dinajpur	20	12	60%	-	-	-	5	2	40%
		<b>205</b>	<b>91</b>	<b>44%</b>	<b>77</b>	<b>31</b>	<b>40%</b>	<b>60</b>	<b>17</b>	<b>28%</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 SARI (aged <5 years) collected from pediatrics inpatients. More than five SARI (aged <5 years) cases belong to the cluster.

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

Age groups	June 2016									Initiation - June 2016								
	SARI (aged ≥ 5 years) <sup>‡</sup>			ILI <sup>‡</sup>			SARI (aged < 5 years) <sup>‡</sup>			SARI (aged ≥ 5 years) <sup>‡</sup>			ILI <sup>‡</sup>			SARI (aged < 5 years) <sup>‡</sup>		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	15	3	20%	36	12	33%	-	-	-	2402	168	7%	4382	179	4%
1-4 Years	-	-	-	25	11	44%	24	5	21%	-	-	-	3788	535	14%	1288	124	10%
5-14 Years	31	8	26%	12	7	58%	-	-	-	1769	359	20%	2094	492	23%	-	-	-
15-24 Years	34	15	44%	15	5	33%	-	-	-	2181	490	22%	1999	381	19%	-	-	-
25-39 Years	41	14	34%	6	1	17%	-	-	-	2219	456	21%	1753	278	16%	-	-	-
40-59 Years	46	25	54%	4	4	100%	-	-	-	2515	475	19%	1119	179	16%	-	-	-
≥ 60 Years	53	29	55%	0	0	0%	-	-	-	2653	490	18%	363	40	11%	-	-	-
	<b>205</b>	<b>91</b>	<b>44%</b>	<b>77</b>	<b>31</b>	<b>40%</b>	<b>60</b>	<b>17</b>	<b>28%</b>	<b>11,337</b>	<b>2,270</b>	<b>20%</b>	<b>13,518</b>	<b>2,073</b>	<b>15%</b>	<b>5,670</b>	<b>303</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 SARI (aged <5 years) collected from pediatrics inpatients. More than five SARI (aged <5 years) cases belong to the cluster.

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

Hospital	District	Initiation	Sample <sup>‡</sup>	Flu	Flu %	Flu A <sup>ψ</sup>	Flu B <sup>λ</sup>	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	1741	267	15%	167	100	0	15	72	0	80	8	1
CBMCH	Mymensingh	Oct 2007	1748	264	15%	181	83	0	7	94	1	79	10	3
JIMCH	Kishoregonj	Sep 2007	3253	617	19%	417	200	0	9	229	0	178	18	12
RMCH	Rajshahi	May 2007	2114	218	10%	154	64	0	14	90	0	50	0	4
SZRMCH	Bogra	Sep 2007	3225	519	16%	353	165	1	12	202	0	138	11	9
LAMB <sup>†</sup>	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	24	1	0
BBMH <sup>†</sup>	Chittagong	Aug 2007	1440	157	11%	118	39	0	13	42	0	63	3	0
CoMCH	Comilla	Oct 2007	3744	500	13%	326	172	2	9	171	0	148	19	3
KMCH	Khulna	Jul 2007	1866	252	14%	178	74	0	16	101	0	61	7	6
JGH	Jessore	Sep 2007	2810	508	18%	331	176	1	10	179	0	142	9	29
JRRMCH	Sylhet	Jul 2007	2633	449	17%	280	168	1	16	127	0	137	10	16
SBMCH	Barisal	Aug 2007	3697	545	15%	349	193	3	9	177	0	165	19	26
CMCH	Chittagong	Apr 2014	593	132	22%	83	48	1	0	50	0	33	17	13
DJMCH	Dinajpur	Apr 2014	490	106	22%	77	29	0	0	55	0	21	6	3
			<b>30,525</b>	<b>4,646</b>	<b>15%</b>	<b>3,086</b>	<b>1,551</b>	<b>9</b>	<b>137</b>	<b>1,630</b>	<b>1</b>	<b>1,319</b>	<b>138</b>	<b>125</b>

<sup>‡</sup>Analysis excluded seven samples of June 2016, which will undergo repeat rRT-PCR.

<sup>ψ</sup>rRT-PCR result of three samples were equivocal positive for Influenza A.

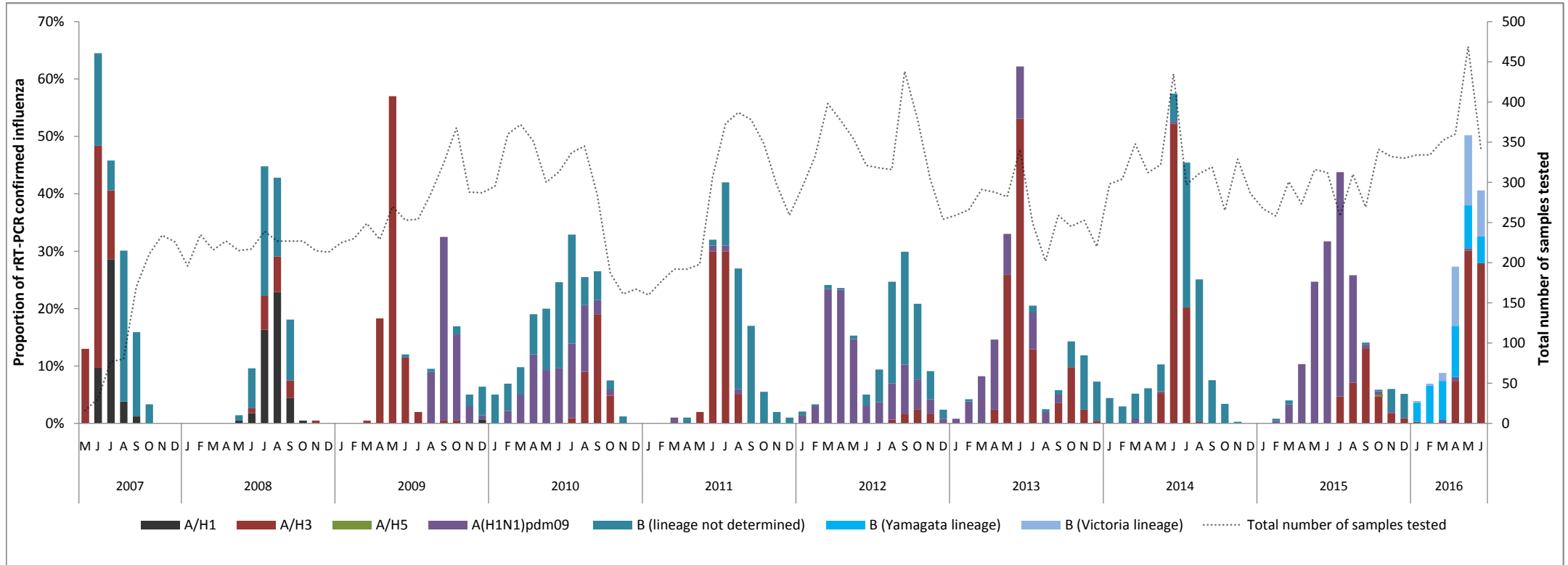
<sup>ψ</sup>One sample collected in June 2013 was co-infected with both A(H3) and A(H1N1)pdm09.

<sup>λ</sup>Three samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage).

<sup>λ</sup>Influenza B typing initiated in January 2016.

<sup>†</sup>Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

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



Note: Influenza B typing initiated in January 2016