



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**June 2017**

**Hospital based influenza surveillance**  
**Monthly hospitalwise influenza lab results**  
**June 2017**

Hospital	District	Sample	Flu	Flu %	Flu A <sup>Ψ</sup>	Flu B	Flu A+B <sup>‡</sup>	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH	Dhaka	29	6	21%	4	2	0	0	4	0	0	1	1
CBMCH	Mymensingh	27	13	48%	13	0	0	0	6	0	7	0	0
JIMCH	Kishoregonj	84	61	73%	61	0	0	0	30	0	31	0	0
RMCH	Rajshahi	26	8	31%	8	0	0	0	1	0	7	0	0
SZRMCH	Bogra	73	36	49%	35	1	0	0	18	0	17	0	1
CoMCH	Comilla	39	12	31%	11	1	0	0	4	0	7	0	1
KMCH	Khulna	27	13	48%	13	0	0	0	1	0	12	0	0
JGH	Jessore	46	30	65%	30	0	0	0	5	0	25	0	0
JRRMCH	Sylhet	32	8	25%	7	1	0	0	3	0	4	0	1
SBMCH	Barisal	58	23	40%	23	0	0	0	7	0	15	0	0
CMCH	Chittagong	39	20	51%	19	0	1	0	4	0	15	0	0
DjMCH	Dinaipur	37	11	30%	11	0	0	0	2	0	9	0	0
		<b>517</b>	<b>241</b>	<b>47%</b>	<b>235</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>85</b>	<b>0</b>	<b>149</b>	<b>1</b>	<b>4</b>

<sup>Ψ</sup>One sample collected in June 2017 was co-infected with both A(H3) and A(H1N1)pdm09.

<sup>‡</sup>One sample collected in June 2017 was co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**June 2017**

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	26	5	19%	-	-	-	3	1	33%
CBMCH	Mymensingh	22	11	50%	-	-	-	5	2	40%
JIMCH	Kishoregonj	58	41	71%	21	17	81%	5	3	60%
RMCH	Rajshahi	21	6	29%	-	-	-	5	2	40%
SZRMCH	Bogra	40	19	48%	27	15	56%	6	2	33%
CoMCH	Comilla	21	7	33%	13	4	31%	5	1	20%
KMCH	Khulna	22	9	41%	-	-	-	5	4	80%
JGH	Jessore	23	17	74%	18	11	61%	5	2	40%
JRRMCH	Sylhet	16	5	31%	11	3	27%	5	0	0%
SBMCH	Barisal	37	14	38%	14	5	36%	7	4	57%
CMCH	Chittagong	34	18	53%	-	-	-	5	2	40%
DjMCH	Dinajpur	32	11	34%	-	-	-	5	0	0%
		<b>352</b>	<b>163</b>	<b>46%</b>	<b>104</b>	<b>55</b>	<b>53%</b>	<b>61</b>	<b>23</b>	<b>38%</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 2017**

Age groups	June 2017									Initiation - June 2017								
	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	-	-	-	16	8	50%	36	10	28%	-	-	-	2621	180	7%	4874	201	4%
1-4 Years	-	-	-	23	10	43%	25	13	52%	-	-	-	4116	562	14%	1554	152	10%
5-14 Years	36	18	50%	17	12	71%	-	-	-	2302	429	19%	2263	514	23%	-	-	-
15-24 Years	85	39	46%	16	10	63%	-	-	-	2789	591	21%	2132	397	19%	-	-	-
25-39 Years	77	31	40%	15	6	40%	-	-	-	2738	527	19%	1879	292	16%	-	-	-
40-59 Years	85	39	46%	12	6	50%	-	-	-	3061	556	18%	1213	193	16%	-	-	-
≥ 60 Years	69	36	52%	5	3	60%	-	-	-	3118	557	18%	397	45	11%	-	-	-
	<b>352</b>	<b>163</b>	<b>46%</b>	<b>104</b>	<b>55</b>	<b>53%</b>	<b>61</b>	<b>23</b>	<b>38%</b>	<b>14,008</b>	<b>2,660</b>	<b>19%</b>	<b>14,621</b>	<b>2,183</b>	<b>15%</b>	<b>6,428</b>	<b>353</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 2017**

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A <sup>ψ</sup>	Flu B <sup>λ</sup>	Flu A+B <sup>⌘</sup>	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	2006	301	15%	198	103	0	15	82	0	101	9	3
CBMCH	Mymensingh	Oct 2007	1985	282	14%	197	85	0	7	101	1	88	12	3
JIMCH	Kishoregonj	Sep 2007	3897	732	19%	520	212	0	9	276	0	234	21	21
RMCH	Rajshahi	May 2007	2399	252	11%	168	84	0	14	94	0	60	11	12
SZRMCH	Bogra	Sep 2007	3709	586	16%	397	188	1	12	227	0	157	23	20
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	4131	530	13%	346	182	2	9	175	0	162	22	10
KMCH	Khulna	Jul 2007	2095	274	13%	197	77	0	16	103	0	78	7	9
JGH	Jessore	Sep 2007	3195	563	18%	369	193	1	10	186	0	173	12	43
JRRMCH	Sylhet	Jul 2007	2930	473	16%	291	181	1	16	133	0	142	12	26
SBMCH	Barisal	Aug 2007	4336	599	14%	397	199	3	9	189	0	199	20	30
CMCH	Chittagong	Apr 2014	1007	190	19%	133	55	2	0	54	0	79	20	15
DjMCH	Dinajpur	Apr 2014	756	145	19%	95	50	0	0	59	0	34	20	9
			<b>35,057</b>	<b>5,196</b>	<b>15%</b>	<b>3,498</b>	<b>1,688</b>	<b>10</b>	<b>137</b>	<b>1,762</b>	<b>1</b>	<b>1,594</b>	<b>193</b>	<b>201</b>

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

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

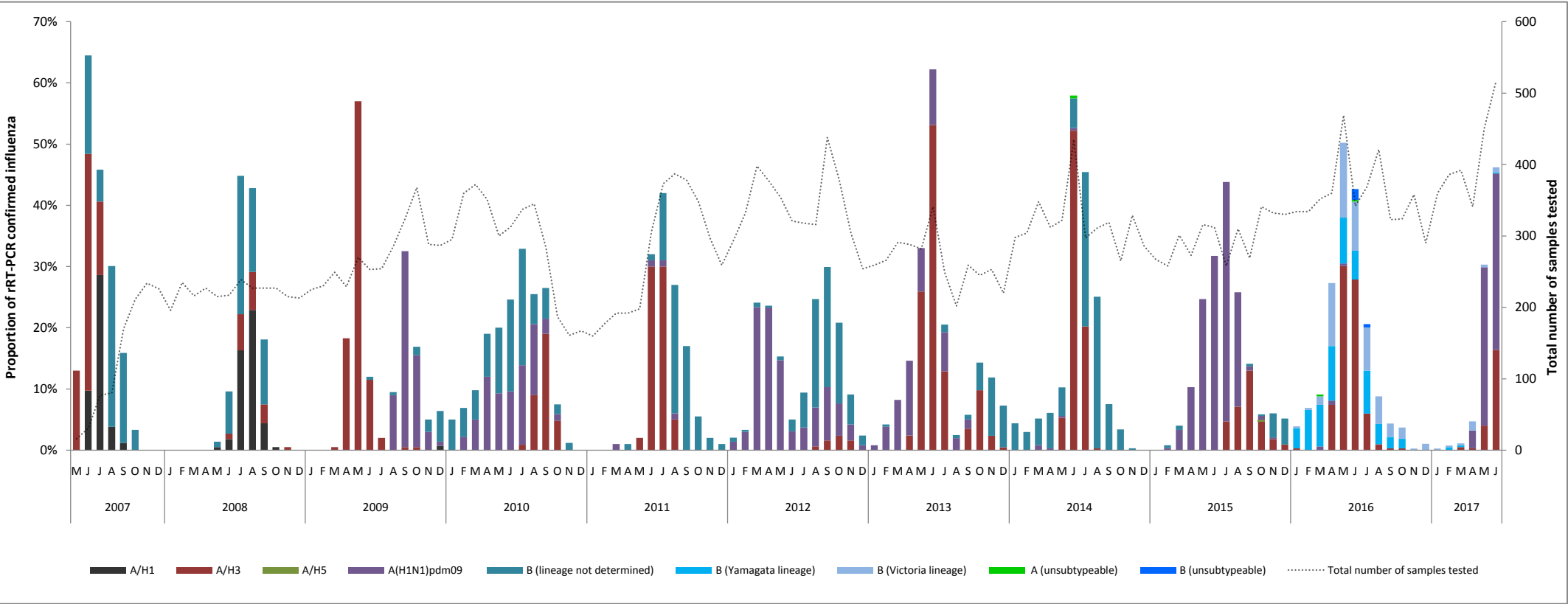
<sup>ψ</sup>One sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

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

<sup>⌘</sup>One sample collected in June 2017 was co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

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

Hospital based influenza surveillance  
Influenza seasonality graph  
May 2007 - June 2017



Note: Influenza B typing initiated in January 2016