



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**July 2017**

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

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	23	4	17%	2	2	0	0	1	0	1	0	2
CBMCH	Mymensingh	28	11	39%	9	2	0	0	6	0	3	0	2
JIMCH	Kishoregonj	97	44	45%	36	8	0	0	32	0	4	3	5
RMCH	Rajshahi	36	20	56%	19	1	0	0	9	0	10	1	0
SZRMCH	Bogra	79	39	49%	35	4	0	0	24	0	11	0	4
CoMCH	Comilla	42	9	21%	9	0	0	0	7	0	2	0	0
KMCH	Khulna	41	23	56%	21	2	0	0	11	0	10	2	0
JGH	Jessore	52	30	58%	30	0	0	0	13	0	17	0	0
JRRMCH	Sylhet	54	34	63%	34	0	0	0	17	0	17	0	0
SBMCH	Barisal	66	15	23%	10	5	0	0	10	0	0	5	0
CMCH	Chittagong	90	21	23%	12	9	0	0	7	0	5	0	9
DjMCH	Dinaipur	49	27	55%	26	1	0	0	13	0	13	0	1
		<b>657</b>	<b>277</b>	<b>42%</b>	<b>243</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>93</b>	<b>11</b>	<b>23</b>

**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**July 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	18	3	17%	-	-	-	5	1	20%
CBMCH	Mymensingh	23	10	43%	-	-	-	5	1	20%
JIMCH	Kishoregonj	64	28	44%	28	13	46%	5	3	60%
RMCH	Rajshahi	31	16	52%	-	-	-	5	4	80%
SZRMCH	Bogra	45	20	44%	29	15	52%	5	4	80%
CoMCH	Comilla	24	4	17%	13	4	31%	5	1	20%
KMCH	Khulna	36	19	53%	-	-	-	5	4	80%
JGH	Jessore	29	17	59%	18	10	56%	5	3	60%
JRRMCH	Sylhet	26	17	65%	23	14	61%	5	3	60%
SBMCH	Barisal	39	4	10%	22	9	41%	5	2	40%
CMCH	Chittagong	78	19	24%	-	-	-	12	2	17%
DJMCH	Dinajpur	44	22	50%	-	-	-	5	5	100%
		<b>457</b>	<b>179</b>	<b>39%</b>	<b>133</b>	<b>65</b>	<b>49%</b>	<b>67</b>	<b>33</b>	<b>49%</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**  
**July 2017**

Age groups	July 2017									Initiation - July 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	5	31%	32	16	50%	-	-	-	2637	185	7%	4906	217	4%
1-4 Years	-	-	-	47	29	62%	35	17	49%	-	-	-	4163	591	14%	1589	169	11%
5-14 Years	77	29	38%	26	17	65%	-	-	-	2379	458	19%	2289	531	23%	-	-	-
15-24 Years	110	44	40%	14	7	50%	-	-	-	2899	635	22%	2146	404	19%	-	-	-
25-39 Years	73	29	40%	12	0	0%	-	-	-	2811	556	20%	1891	292	15%	-	-	-
40-59 Years	96	40	42%	16	6	38%	-	-	-	3157	596	19%	1229	199	16%	-	-	-
≥ 60 Years	101	37	37%	2	1	50%	-	-	-	3219	594	18%	399	46	12%	-	-	-
	<b>457</b>	<b>179</b>	<b>39%</b>	<b>133</b>	<b>65</b>	<b>49%</b>	<b>67</b>	<b>33</b>	<b>49%</b>	<b>14,465</b>	<b>2,839</b>	<b>20%</b>	<b>14,754</b>	<b>2,248</b>	<b>15%</b>	<b>6,495</b>	<b>386</b>	<b>6%</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 - July 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	2029	305	15%	200	105	0	15	83	0	102	9	5
CBMCH	Mymensingh	Oct 2007	2013	293	15%	206	87	0	7	107	1	91	12	5
JIMCH	Kishoregonj	Sep 2007	3994	776	19%	556	220	0	9	308	0	238	24	26
RMCH	Rajshahi	May 2007	2435	272	11%	187	85	0	14	103	0	70	12	12
SZRMCH	Bogra	Sep 2007	3788	625	16%	432	192	1	12	251	0	168	23	24
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	4173	539	13%	355	182	2	9	182	0	164	22	10
KMCH	Khulna	Jul 2007	2136	297	14%	218	79	0	16	114	0	88	9	9
JGH	Jessore	Sep 2007	3247	593	18%	399	193	1	10	199	0	190	12	43
JRRMCH	Sylhet	Jul 2007	2984	507	17%	325	181	1	16	150	0	159	12	26
SBMCH	Barisal	Aug 2007	4402	614	14%	407	204	3	9	199	0	199	25	30
CMCH	Chittagong	Apr 2014	1097	211	19%	145	64	2	0	61	0	84	20	24
DJMCH	Dinajpur	Apr 2014	805	172	21%	121	51	0	0	72	0	47	20	10
			<b>35,714</b>	<b>5,473</b>	<b>15%</b>	<b>3,741</b>	<b>1,722</b>	<b>10</b>	<b>137</b>	<b>1,912</b>	<b>1</b>	<b>1,687</b>	<b>204</b>	<b>224</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.

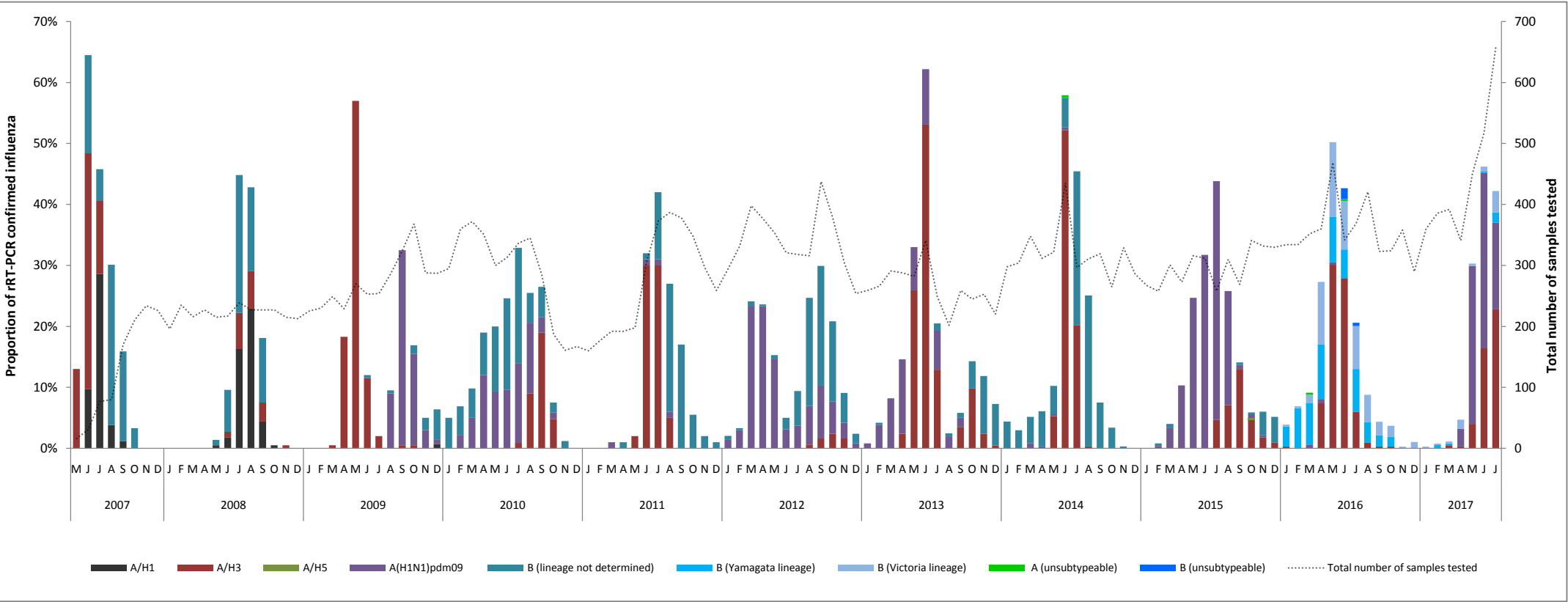
<sup>ψ</sup>One sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

<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 - July 2017



Note: Influenza B typing initiated in January 2016