



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**May 2017**

**Hospital based influenza surveillance**  
**Monthly hospitalwise influenza lab results**  
**May 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	42	22	52%	22	0	0	0	5	0	17	0	0
CBMCH	Mymensingh	24	1	4%	1	0	0	0	0	0	1	0	0
JIMCH	Kishoregonj	69	31	45%	29	2	0	0	4	0	25	0	2
RMCH	Rajshahi	23	3	13%	3	0	0	0	0	0	3	0	0
SZRMCH	Bogra	44	3	7%	3	0	0	0	1	0	2	0	0
CoMCH	Comilla	34	6	18%	6	0	0	0	1	0	5	0	0
KMCH	Khulna	21	6	29%	6	0	0	0	1	0	5	0	0
JGH	Jessore	33	8	24%	8	0	0	0	2	0	6	0	0
JRRMCH	Sylhet	19	1	5%	1	0	0	0	0	0	1	0	0
SBMCH	Barisal	60	22	37%	22	0	0	0	3	0	19	0	0
CMCH	Chittagong	57	31	54%	31	0	0	0	0	0	31	0	0
DjMCH	Dinaipur	25	3	12%	3	0	0	0	1	0	2	0	0
		<b>451</b>	<b>137</b>	<b>30%</b>	<b>135</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>117</b>	<b>0</b>	<b>2</b>

**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**May 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	37	19	51%	-	-	-	5	3	60%
CBMCH	Mymensingh	19	1	5%	-	-	-	5	0	0%
JIMCH	Kishoregonj	51	27	53%	13	3	23%	5	1	20%
RMCH	Rajshahi	18	3	17%	-	-	-	5	0	0%
SZRMCH	Bogra	24	1	4%	15	1	7%	5	1	20%
CoMCH	Comilla	15	3	20%	14	3	21%	5	0	0%
KMCH	Khulna	16	5	31%	-	-	-	5	1	20%
JGH	Jessore	17	7	41%	11	1	9%	5	0	0%
JRRMCH	Sylhet	7	1	14%	7	0	0%	5	0	0%
SBMCH	Barisal	38	14	37%	17	7	41%	5	1	20%
CMCH	Chittagong	52	30	58%	-	-	-	5	1	20%
DjMCH	Dinajpur	20	3	15%	-	-	-	5	0	0%
		<b>314</b>	<b>114</b>	<b>36%</b>	<b>77</b>	<b>15</b>	<b>19%</b>	<b>60</b>	<b>8</b>	<b>13%</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.

**Hospital based influenza surveillance**  
**Influenza results by different age groups**  
**May 2017**

Age groups	May 2017									Initiation - May 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	-	-	-	14	1	7%	45	2	4%	-	-	-	2605	172	7%	4838	191	4%
1-4 Years	-	-	-	20	4	20%	15	6	40%	-	-	-	4093	552	13%	1529	139	9%
5-14 Years	44	17	39%	18	2	11%	-	-	-	2266	411	18%	2246	502	22%	-	-	-
15-24 Years	96	36	38%	6	1	17%	-	-	-	2704	552	20%	2116	387	18%	-	-	-
25-39 Years	61	21	34%	7	2	29%	-	-	-	2661	496	19%	1864	286	15%	-	-	-
40-59 Years	64	28	44%	9	4	44%	-	-	-	2976	517	17%	1201	187	16%	-	-	-
≥ 60 Years	49	12	24%	3	1	33%	-	-	-	3049	521	17%	392	42	11%	-	-	-
	<b>314</b>	<b>114</b>	<b>36%</b>	<b>77</b>	<b>15</b>	<b>19%</b>	<b>60</b>	<b>8</b>	<b>13%</b>	<b>13,656</b>	<b>2,497</b>	<b>18%</b>	<b>14,517</b>	<b>2,128</b>	<b>15%</b>	<b>6,367</b>	<b>330</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 - May 2017**

Hospital	District	Initiation	Sample	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	1977	295	15%	194	101	0	15	78	0	101	8	2
CBMCH	Mymensingh	Oct 2007	1958	269	14%	184	85	0	7	95	1	81	12	3
JIMCH	Kishoregonj	Sep 2007	3813	671	18%	459	212	0	9	246	0	203	21	21
RMCH	Rajshahi	May 2007	2373	244	10%	160	84	0	14	93	0	53	11	12
SZRMCH	Bogra	Sep 2007	3636	550	15%	362	187	1	12	209	0	140	23	19
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	4092	518	13%	335	181	2	9	171	0	155	22	9
KMCH	Khulna	Jul 2007	2068	261	13%	184	77	0	16	102	0	66	7	9
JGH	Jessore	Sep 2007	3149	533	17%	339	193	1	10	181	0	148	12	43
JRRMCH	Sylhet	Jul 2007	2898	465	16%	284	180	1	16	130	0	138	12	25
SBMCH	Barisal	Aug 2007	4278	576	13%	374	199	3	9	182	0	184	20	30
CMCH	Chittagong	Apr 2014	968	170	18%	114	55	1	0	50	0	64	20	15
DjMCH	Dinajpur	Apr 2014	719	134	19%	84	50	0	0	57	0	25	20	9
			<b>34,540</b>	<b>4,955</b>	<b>14%</b>	<b>3,263</b>	<b>1,683</b>	<b>9</b>	<b>137</b>	<b>1,677</b>	<b>1</b>	<b>1,445</b>	<b>192</b>	<b>197</b>

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

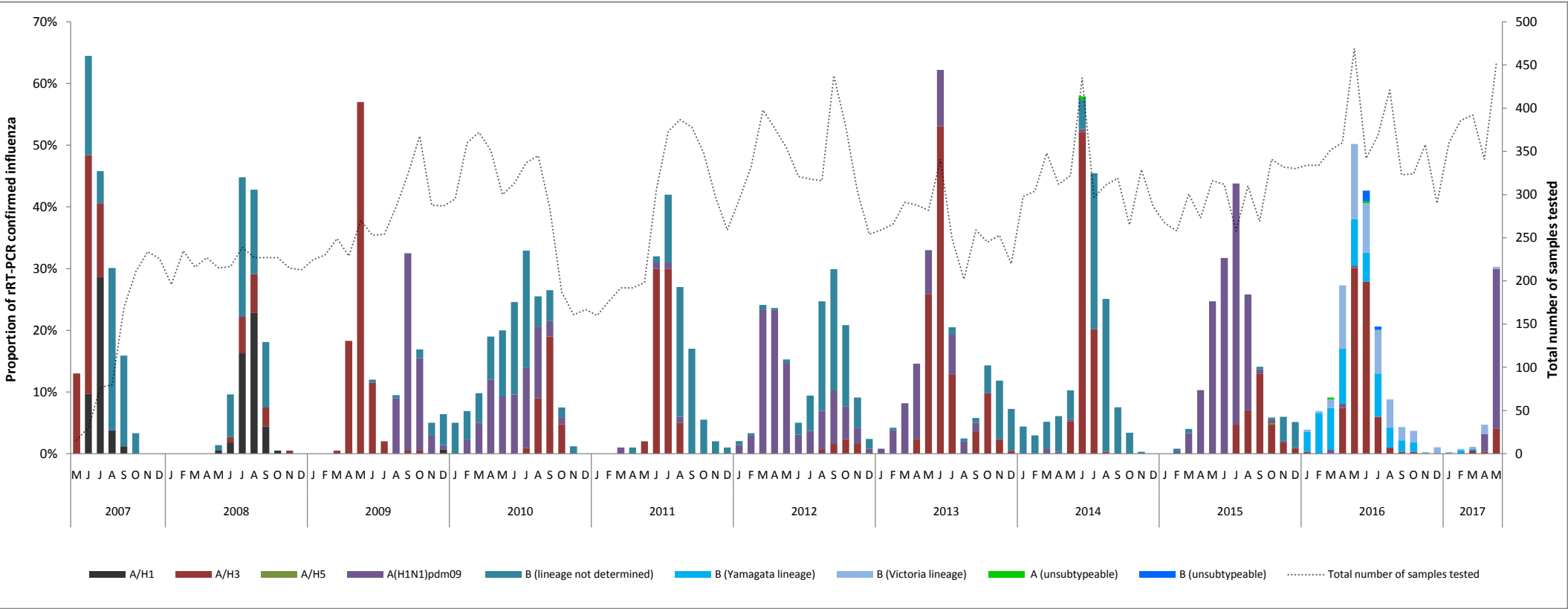
<sup>ψ</sup>rRT-PCR result of four samples were equivocal positive for Influenza A.

<sup>ψ</sup>One sample collected in June 2013 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), another eight samples were unsubtypeable.

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

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



Note: Influenza B typing initiated in January 2016