

## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**November 2018**

**Hospital based influenza surveillance**  
**Monthly enrollment by different wards (Medicine, Pediatrics, CCU and ICU)**  
**November 2018**

Hospital	District	Medicine ward			Pediatrics ward ( $\leq 12$ years of age)			Intensive Care Unit (ICU)			Coronary Care Unit (CCU)		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	22	6	27%	10	0	0%	-	-	-	4	0	0%
RMCH	Rajshahi	15	2	13%	9	1	11%	-	-	-	5	0	0%
CuMCH	Cumilla	9	1	11%	10	0	0%	-	-	-	4	0	0%
KMCH	Khulna	14	1	7%	4	1	25%	-	-	-	3	0	0%
JRRMCH	Sylhet	6	0	0%	13	0	0%	-	-	-	3	0	0%
SBMCH	Barishal	9	1	11%	11	0	0%	-	-	-	5	0	0%
CMCH	Chattogram	20	0	0%	10	0	0%	-	-	-	13	0	0%
MARMCH	Dinajpur	11	0	0%	10	0	0%	-	-	-	6	0	0%
		<b>106</b>	<b>11</b>	<b>10%</b>	<b>77</b>	<b>2</b>	<b>3%</b>	-	-	-	<b>43</b>	<b>0</b>	<b>0%</b>

**Hospital based influenza surveillance**  
**Monthly hospitalwise influenza lab results**  
**November 2018**

Hospital	District	Sample	Flu	Flu %	Flu A	Flu B	Flu A+B	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
JIMCH	Kishoregonj	36	6	17%	0	6	0	0	0	0	0	0	6	0
RMCH	Rajshahi	29	3	10%	0	3	0	0	0	0	0	0	3	0
CuMCH	Cumilla	23	1	4%	0	1	0	0	0	0	0	0	1	0
KMCH	Khulna	21	2	10%	0	2	0	0	0	0	0	0	0	2
JRRMCH	Sylhet	22	0	0%	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	25	1	4%	0	1	0	0	0	0	0	0	1	0
CMCH	Chattogram	43	0	0%	0	0	0	0	0	0	0	0	0	0
MARMCH	Dinajpur	27	0	0%	0	0	0	0	0	0	0	0	0	0
		<b>226</b>	<b>13</b>	<b>6%</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>2</b>

**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**November 2018**

Hospital	District	SARI (aged ≥ 5 years) <sup>‡</sup>			SARI (aged < 5 years) <sup>‡</sup>		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	26	6	23%	10	0	0%
RMCH	Rajshahi	19	3	16%	10	0	0%
CuMCH	Cumilla	13	1	8%	10	0	0%
KMCH	Khulna	17	1	6%	4	1	25%
JRRMCH	Sylhet	12	0	0%	10	0	0%
SBMCH	Barishal	15	1	7%	10	0	0%
CMCH	Chattogram	33	0	0%	10	0	0%
MARMCH	Dinajpur	17	0	0%	10	0	0%
		<b>152</b>	<b>12</b>	<b>8%</b>	<b>74</b>	<b>1</b>	<b>1%</b>

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

<sup>‡</sup> First ten SARI (aged <5 years) collected from pediatrics inpatients.

**Hospital based influenza surveillance**  
**Influenza results by different age groups**  
**November 2018**

Age groups	November 2018						Initiation - November 2018								
	SARI (aged ≥ 5 years) <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 %
<1 Year	-	-	-	55	0	0%	-	-	-	2665	189	7%	5427	243	4%
1-4 Years	-	-	-	19	1	5%	-	-	-	4217	601	14%	1819	206	11%
5-14 Years	18	3	17%	-	-	-	2753	570	21%	2317	547	24%	-	-	-
15-24 Years	21	5	24%	-	-	-	3389	729	22%	2167	413	19%	-	-	-
25-39 Years	26	3	12%	-	-	-	3265	646	20%	1916	299	16%	-	-	-
40-59 Years	43	0	0%	-	-	-	3758	696	19%	1245	201	16%	-	-	-
≥ 60 Years	44	1	2%	-	-	-	3859	703	18%	400	46	12%	-	-	-
	<b>152</b>	<b>12</b>	<b>8%</b>	<b>74</b>	<b>1</b>	<b>1%</b>	<b>17,024</b>	<b>3,344</b>	<b>20%</b>	<b>14,927</b>	<b>2,296</b>	<b>15%</b>	<b>7,246</b>	<b>449</b>	<b>6%</b>

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

<sup>‡</sup> First ten SARI (aged <5 years) collected from pediatrics inpatients.

<sup>‡</sup> Outpatient ILI surveillance discontinued in October 2017.

**Hospital based influenza surveillance**  
**Hospitalwise influenza lab results**  
**Surveillance initiation - November 2018**

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/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH <sup>γ</sup>	Dhaka	Jun 2007	2061	312	15%	201	111	0	15	84	0	0	102	13	7
CBMCH <sup>γ</sup>	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	4581	917	20%	641	276	0	9	316	0	0	315	52	54
RMCH	Rajshahi	May 2007	2852	328	12%	224	104	0	14	108	0	0	102	24	19
SZRMCH <sup>γ</sup>	Bogura	Sep 2007	3865	653	17%	439	213	1	12	256	0	0	170	29	39
LAMB <sup>†</sup>	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	0	24	1	0
BBMH <sup>†</sup>	Chattogram	Aug 2007	1440	157	11%	118	39	0	13	42	0	0	63	3	0
CuMCH	Cumilla	Oct 2007	4462	566	13%	375	189	2	9	187	0	0	179	26	13
KMCH	Khulna	Jul 2007	2442	342	14%	246	96	0	16	126	0	0	104	16	19
JGH <sup>γ</sup>	Jashore	Sep 2007	3310	608	18%	403	204	1	10	202	0	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3301	565	17%	360	204	1	16	152	0	0	192	32	29
SBMCH	Barishal	Aug 2007	4828	689	14%	444	242	3	9	207	0	0	228	49	44
CMCH	Chattogram	Apr 2014	1695	308	18%	212	94	2	0	85	0	0	127	39	35
MARMCH <sup>‡</sup>	Dinajpur	Apr 2014	1136	230	20%	168	62	0	0	83	0	0	83	25	16
			<b>39,197</b>	<b>6,089</b>	<b>16%</b>	<b>4,109</b>	<b>1,970</b>	<b>10</b>	<b>137</b>	<b>1,996</b>	<b>1</b>	<b>0</b>	<b>1,971</b>	<b>342</b>	<b>334</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).

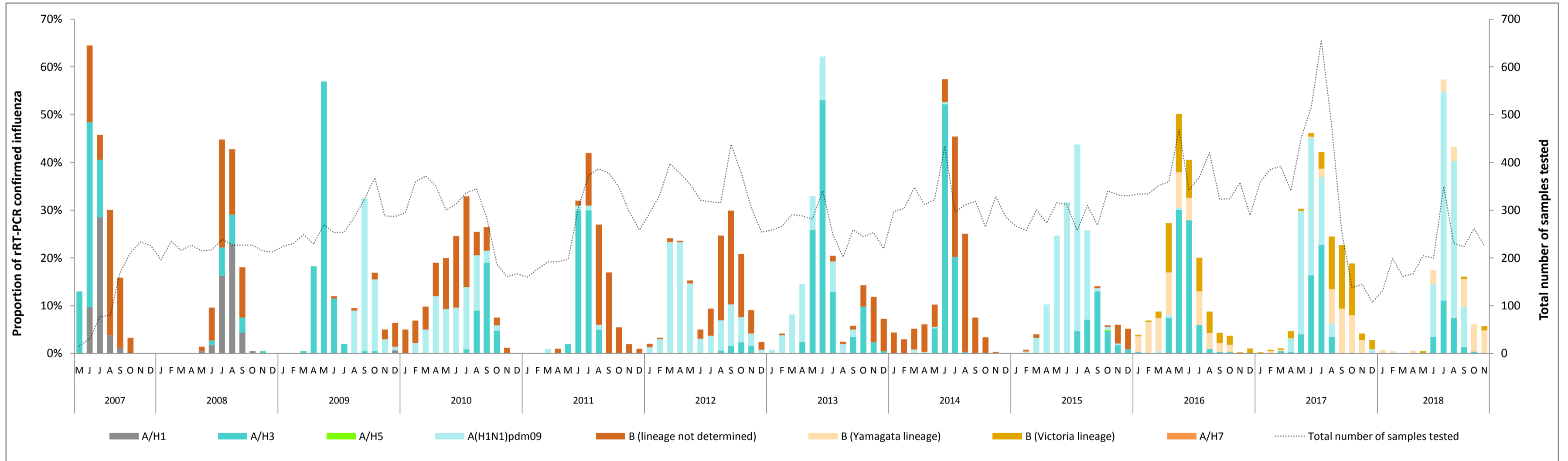
<sup>†</sup>Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

<sup>γ</sup>Surveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

<sup>‡</sup>Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH)

Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018

**Hospital based influenza surveillance**  
**Influenza seasonality graph**  
**May 2007 - November 2018**



Note: Influenza B typing initiated in January 2016

