

## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**January 2019**

**Hospital based influenza surveillance**  
**Monthly enrollment by different wards (Medicine, Pediatrics and CCU)**  
**January 2019**

Hospital	District	Medicine ward			Pediatrics ward ( $\leq 12$ years of age)			Coronary Care Unit (CCU)		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	27	3	11%	20	2	10%	8	1	13%
RMCH	Rajshahi	15	1	7%	11	0	0%	4	0	0%
CuMCH	Cumilla	17	1	6%	11	0	0%	11	0	0%
KMCH	Khulna	24	2	8%	10	0	0%	3	0	0%
JGH	Jashore	21	1	5%	10	0	0%	6	0	0%
JRRMCH	Sylhet	11	0	0%	12	0	0%	5	0	0%
SBMCH	Barishal	38	1	3%	10	0	0%	7	0	0%
CMCH	Chattogram	37	1	3%	10	0	0%	12	0	0%
MARMCH	Dinajpur	16	1	6%	10	0	0%	5	0	0%
		<b>206</b>	<b>11</b>	<b>5%</b>	<b>104</b>	<b>2</b>	<b>2%</b>	<b>61</b>	<b>1</b>	<b>2%</b>

<sup>φ</sup> Intensive care units (ICU) surveillance discontinued in January 2019.

**Hospital based influenza surveillance**  
**Monthly hospitalwise influenza lab results**  
**January 2019**

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	55	6	11%	0	6	0	0	0	0	0	0	6	0
RMCH	Rajshahi	30	1	3%	0	1	0	0	0	0	0	0	1	0
CuMCH	Cumilla	39	1	3%	0	1	0	0	0	0	0	0	1	0
KMCH	Khulna	37	2	5%	2	0	0	0	0	0	0	2	0	0
JGH	Jashore	37	1	3%	0	1	0	0	0	0	0	0	1	0
JRRMCH	Sylhet	28	0	0%	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	55	1	2%	0	1	0	0	0	0	0	0	1	0
CMCH	Chattogram	59	1	2%	1	0	0	0	0	0	0	1	0	0
MARMCH	Dinajpur	31	1	3%	0	1	0	0	0	0	0	0	0	1
		<b>371</b>	<b>14</b>	<b>4%</b>	<b>3</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>10</b>	<b>1</b>

**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**January 2019**

Hospital	District	SARI (aged ≥ 5 years) <sup>‡</sup>			SARI (aged < 5 years) <sup>‡</sup>		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	38	6	16%	17	0	0%
RMCH	Rajshahi	20	1	5%	10	0	0%
CuMCH	Cumilla	29	1	3%	10	0	0%
KMCH	Khulna	27	2	7%	10	0	0%
JGH	Jashore	27	1	4%	10	0	0%
JRRMCH	Sylhet	18	0	0%	10	0	0%
SBMCH	Barishal	45	1	2%	10	0	0%
CMCH	Chattogram	49	1	2%	10	0	0%
MARMCH	Dinajpur	21	1	5%	10	0	0%
		<b>274</b>	<b>14</b>	<b>5%</b>	<b>97</b>	<b>0</b>	<b>0%</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. More than ten SARI (aged <5 years) cases belong to the cluster.

**Hospital based influenza surveillance  
Influenza results by different age groups  
January 2019**

Age groups	January 2019						Initiation - January 2019								
	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	-	-	-	65	0	0%	-	-	-	2665	189	7%	5,566	244	4%
1-4 Years	-	-	-	32	0	0%	-	-	-	4217	601	14%	1,877	206	11%
5-14 Years	29	5	17%	-	-	-	2808	576	21%	2317	547	24%	-	-	-
15-24 Years	18	0	0%	-	-	-	3434	734	21%	2167	413	19%	-	-	-
25-39 Years	44	3	7%	-	-	-	3349	649	19%	1916	299	16%	-	-	-
40-59 Years	78	3	4%	-	-	-	3905	701	18%	1245	201	16%	-	-	-
≥ 60 Years	105	3	3%	-	-	-	4058	708	17%	400	46	12%	-	-	-
	<b>274</b>	<b>14</b>	<b>5%</b>	<b>97</b>	<b>0</b>	<b>0%</b>	<b>17,554</b>	<b>3,368</b>	<b>19%</b>	<b>14,927</b>	<b>2,296</b>	<b>15%</b>	<b>7,443</b>	<b>450</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 - January 2019**

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	4687	924	20%	641	283	0	9	316	0	0	315	59	54
RMCH	Rajshahi	May 2007	2910	331	11%	224	107	0	14	108	0	0	102	27	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	4540	567	12%	375	190	2	9	187	0	0	179	27	13
KMCH	Khulna	Jul 2007	2513	345	14%	248	97	0	16	126	0	0	106	17	19
JGH <sup>γ‡</sup>	Jashore	Sep 2007	3380	611	18%	404	206	1	10	202	0	0	192	19	49
JRRMCH	Sylhet	Jul 2007	3363	566	17%	360	205	1	16	152	0	0	192	33	29
SBMCH	Barishal	Aug 2007	4937	692	14%	444	245	3	9	207	0	0	228	52	44
CMCH	Chattogram	Apr 2014	1804	311	17%	213	96	2	0	85	0	0	128	41	35
MARMCH <sup>‡</sup>	Dinajpur	Apr 2014	1200	231	19%	168	63	0	0	83	0	0	83	25	17
			<b>39,924</b>	<b>6,114</b>	<b>15%</b>	<b>4,113</b>	<b>1,991</b>	<b>10</b>	<b>137</b>	<b>1,996</b>	<b>1</b>	<b>0</b>	<b>1,975</b>	<b>362</b>	<b>335</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.

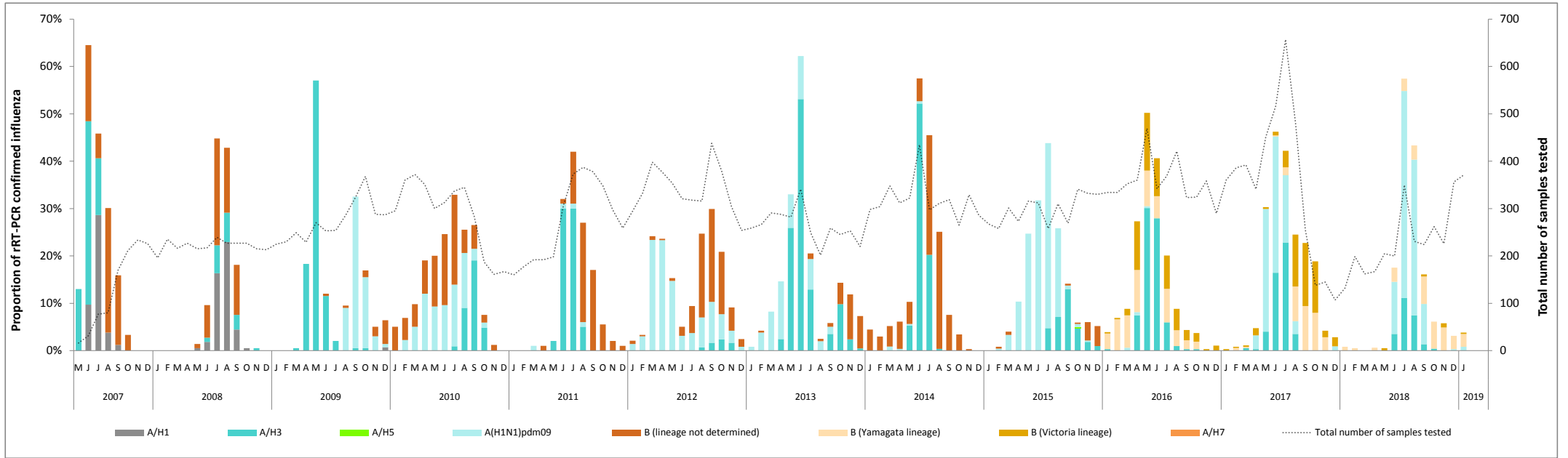
<sup>‡</sup>Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

<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.

<sup>φ</sup>Intensive care units (ICU) surveillance discontinued in January 2019.

**Hospital based influenza surveillance**  
**Influenza seasonality graph**  
**May 2007 - January 2019**



Note: Influenza B typing initiated in January 2016

**Hospital based influenza surveillance**  
**Influenza seasonality graph**  
**Week 05 of 2018 to week 04 of 2019**

