

## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**October 2019**

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

Hospital	District	Medicine ward			Pediatrics ward (≤12 years of age)			Coronary Care Unit (CCU)		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	10	0	0%	6	1	17%	3	0	0%
RMCH	Rajshahi	15	2	13%	5	0	0%	5	1	20%
CuMCH	Cumilla	13	3	23%	6	0	0%	3	0	0%
KMCH	Khulna	17	0	0%	5	0	0%	3	0	0%
JGH	Jashore	10	2	20%	5	0	0%	3	0	0%
JRRMCH	Sylhet	7	0	0%	8	0	0%	6	1	17%
SBMCH	Barishal	15	1	7%	7	0	0%	6	1	17%
CMCH	Chattogram	6	0	0%	9	0	0%	6	0	0%
MARMCH	Dinajpur	8	0	0%	8	0	0%	4	0	0%
		<b>101</b>	<b>8</b>	<b>8%</b>	<b>59</b>	<b>1</b>	<b>2%</b>	<b>39</b>	<b>3</b>	<b>8%</b>

**Hospital based influenza surveillance**  
**Monthly hospitalwise influenza lab results**  
**October 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	19	1	5%	0	1	0	0	0	0	0	0	0	1
RMCH	Rajshahi	25	3	12%	1	2	0	0	1	0	0	0	0	2
CuMCH	Cumilla	22	3	14%	2	1	0	0	2	0	0	0	0	1
KMCH	Khulna	25	0	0%	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	18	2	11%	2	0	0	0	2	0	0	0	0	0
JRRMCH	Sylhet	21	1	5%	1	0	0	0	1	0	0	0	0	0
SBMCH	Barishal	28	2	7%	2	0	0	0	2	0	0	0	0	0
CMCH	Chattogram	21	0	0%	0	0	0	0	0	0	0	0	0	0
MARMCH	Dinajpur	20	0	0%	0	0	0	0	0	0	0	0	0	0
		<b>199</b>	<b>12</b>	<b>6%</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	14	0	0%	5	1	20%
RMCH	Rajshahi	20	3	15%	5	0	0%
CuMCH	Cumilla	17	3	18%	5	0	0%
KMCH	Khulna	20	0	0%	5	0	0%
JGH	Jashore	13	2	15%	5	0	0%
JRRMCH	Sylhet	16	1	6%	5	0	0%
SBMCH	Barishal	23	2	9%	5	0	0%
CMCH	Chattogram	16	0	0%	5	0	0%
MARMCH	Dinajpur	15	0	0%	5	0	0%
		<b>154</b>	<b>11</b>	<b>7%</b>	<b>45</b>	<b>1</b>	<b>2%</b>

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

Age groups	October 2019						Initiation - October 2019								
	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			SARI (aged ≥ 5 years)			ILI <sup>‡</sup>			SARI (aged < 5 years)		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	32	0	0%	-	-	-	2665	189	7%	6,521	382	6%
1-4 Years	-	-	-	13	1	8%	-	-	-	4217	601	14%	2,366	361	15%
5-14 Years	21	1	5%	-	-	-	3314	786	24%	2317	547	24%	-	-	-
15-24 Years	27	1	4%	-	-	-	4003	963	24%	2167	413	19%	-	-	-
25-39 Years	39	6	15%	-	-	-	3895	828	21%	1916	299	16%	-	-	-
40-59 Years	33	1	3%	-	-	-	4529	879	19%	1245	201	16%	-	-	-
≥ 60 Years	34	2	6%	-	-	-	4648	870	19%	400	46	12%	-	-	-
	<b>154</b>	<b>11</b>	<b>7%</b>	<b>45</b>	<b>1</b>	<b>2%</b>	<b>20,389</b>	<b>4,326</b>	<b>21%</b>	<b>14,927</b>	<b>2,296</b>	<b>15%</b>	<b>8,887</b>	<b>743</b>	<b>8%</b>

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

**Hospital based influenza surveillance**  
**Hospitalwise influenza lab results**  
**Surveillance initiation - October 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	5311	1083	20%	736	347	0	9	386	0	0	340	64	113
RMCH	Rajshahi	May 2007	3385	479	14%	313	166	0	14	177	0	0	122	39	66
SZRMCH <sup>γ</sup>	Bogra	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 <sup>‡</sup>	Cumilla	Oct 2007	4894	631	13%	413	215	3	9	220	0	0	184	28	37
KMCH	Khulna	Jul 2007	2893	448	15%	311	137	0	16	153	0	0	142	17	59
JGH <sup>γ†</sup>	Jashore	Sep 2007	3822	820	21%	512	307	1	10	257	0	0	245	26	143
JRRMCH	Sylhet	Jul 2007	3750	668	18%	413	254	1	16	199	0	0	198	34	77
SBMCH	Barishal	Aug 2007	5509	855	16%	535	316	4	9	258	0	0	268	56	111
CMCH	Chattogram	Apr 2014	2448	491	20%	333	155	3	0	128	0	0	205	41	94
MARMCH <sup>²</sup>	Dinajpur	Apr 2014	1601	354	22%	221	133	0	0	111	0	0	108	28	84
			<b>44,203</b>	<b>7,365</b>	<b>17%</b>	<b>4,823</b>	<b>2,529</b>	<b>13</b>	<b>137</b>	<b>2,419</b>	<b>1</b>	<b>0</b>	<b>2,262</b>	<b>395</b>	<b>840</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>Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

<sup>†</sup>One sample collected in May 2019 was co-infected with both Influenza A(H3) 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 Cumilla Medical College Hospital (CuMCH), Cumilla in January 2018.

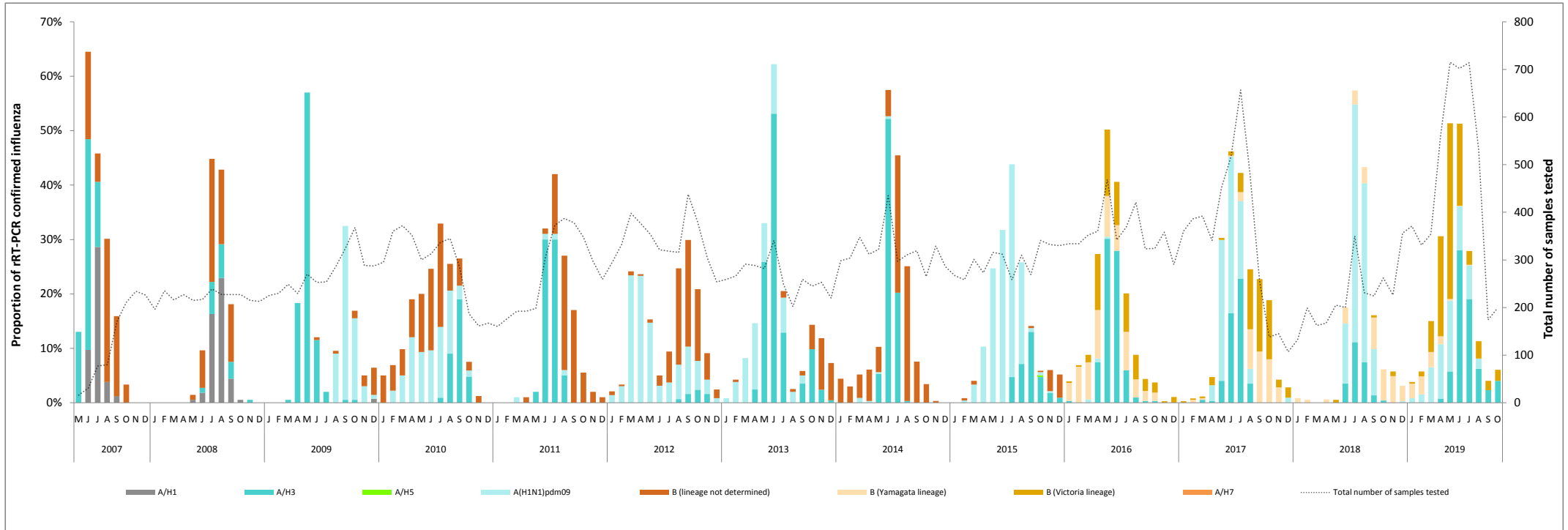
<sup>†</sup>Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

<sup>²</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 - October 2019



Note: Influenza B typing initiated in January 2016

**Hospital based influenza surveillance**  
**Influenza seasonality graph**  
**Week 44 of 2018 to week 43 of 2019**

