



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**July 2020**

**Hospital based influenza surveillance**  
**Monthly enrollment by different wards (Medicine, Pediatrics and CCU)**  
**July 2020**

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	6	0	0%	17	0	0%	5	0	0%
RMCH	Rajshahi	27	0	0%	11	0	0%	0	0	0%
CuMCH	Cumilla	24	0	0%	2	0	0%	0	0	0%
KMCH	Khulna	36	0	0%	3	0	0%	0	0	0%
JGH	Jashore	23	0	0%	3	0	0%	0	0	0%
JRRMCH	Sylhet	15	0	0%	12	0	0%	3	0	0%
SBMCH	Barishal	22	0	0%	13	0	0%	1	0	0%
CMCH	Chattogram	34	0	0%	3	0	0%	0	0	0%
MARMCH	Dinajpur	13	0	0%	8	0	0%	0	0	0%
		<b>200</b>	<b>0</b>	<b>0%</b>	<b>72</b>	<b>0</b>	<b>0%</b>	<b>9</b>	<b>0</b>	<b>0%</b>



**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**July 2020**

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	16	0	0%	12	0	0%
RMCH	Rajshahi	27	0	0%	11	0	0%
CuMCH	Cumilla	24	0	0%	2	0	0%
KMCH	Khulna	36	0	0%	3	0	0%
JGH	Jashore	23	0	0%	3	0	0%
JRRMCH	Sylhet	20	0	0%	10	0	0%
SBMCH	Barishal	25	0	0%	11	0	0%
CMCH	Chattogram	36	0	0%	1	0	0%
MARMCH	Dinajpur	15	0	0%	6	0	0%
		<b>222</b>	<b>0</b>	<b>0%</b>	<b>59</b>	<b>0</b>	<b>0%</b>

**Hospital based influenza surveillance**  
**Influenza results by different age groups**  
**July 2020**

Age groups	July 2020						Initiation - July 2020								
	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	-	-	-	44	0	0%	-	-	-	2665	189	7%	6,821	384	6%
1-4 Years	-	-	-	15	0	0%	-	-	-	4217	601	14%	2,514	367	15%
5-14 Years	15	0	0%	-	-	-	3468	790	23%	2317	547	24%	-	-	-
15-24 Years	18	0	0%	-	-	-	4129	967	23%	2167	413	19%	-	-	-
25-39 Years	38	0	0%	-	-	-	4088	835	20%	1916	299	16%	-	-	-
40-59 Years	86	0	0%	-	-	-	4853	897	18%	1245	201	16%	-	-	-
≥ 60 Years	65	0	0%	-	-	-	4918	884	18%	400	46	12%	-	-	-
	<b>222</b>	<b>0</b>	<b>0%</b>	<b>59</b>	<b>0</b>	<b>0%</b>	<b>21,456</b>	<b>4,373</b>	<b>20%</b>	<b>14,927</b>	<b>2,296</b>	<b>15%</b>	<b>9,335</b>	<b>751</b>	<b>8%</b>

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

**Hospital based influenza surveillance**  
**Hospitalwise influenza lab results**  
**Surveillance initiation - July 2020**

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	5485	1091	20%	744 <sup>†</sup>	347	0	9	387	0	0	346	64	113
RMCH	Rajshahi	May 2007	3574	481	13%	315 <sup>†</sup>	166	0	14	177	0	0	122	39	66
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 <sup>‡</sup>	Cumilla	Oct 2007	5039	639	13%	421 <sup>*</sup>	215	3	9	220	0	0	191	28	37
KMCH	Khulna	Jul 2007	3101	453	15%	316 <sup>*†</sup>	137	0	16	153	0	0	143	17	59
JGH <sup>‡</sup>	Jashore	Sep 2007	3957	826	21%	518	307	1	10	257	0	0	251	26	143
JRRMCH	Sylhet	Jul 2007	3917	674	17%	419 <sup>†</sup>	254	1	16	199	0	0	203	34	77
SBMCH	Barishal	Aug 2007	5684	863	15%	543 <sup>†</sup>	316	4	9	260	0	0	272	56	111
CMCH	Chattogram	Apr 2014	2661	501	19%	343	155	3	0	128	0	0	215	41	94
MARMCH <sup>²</sup>	Dinajpur	Apr 2014	1710	356	21%	223 <sup>†</sup>	133	0	0	111	0	0	109	28	84
			<b>45,718</b>	<b>7,420</b>	<b>16%</b>	<b>4,878</b>	<b>2,529</b>	<b>13</b>	<b>137</b>	<b>2,422</b>	<b>1</b>	<b>0</b>	<b>2,302</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).

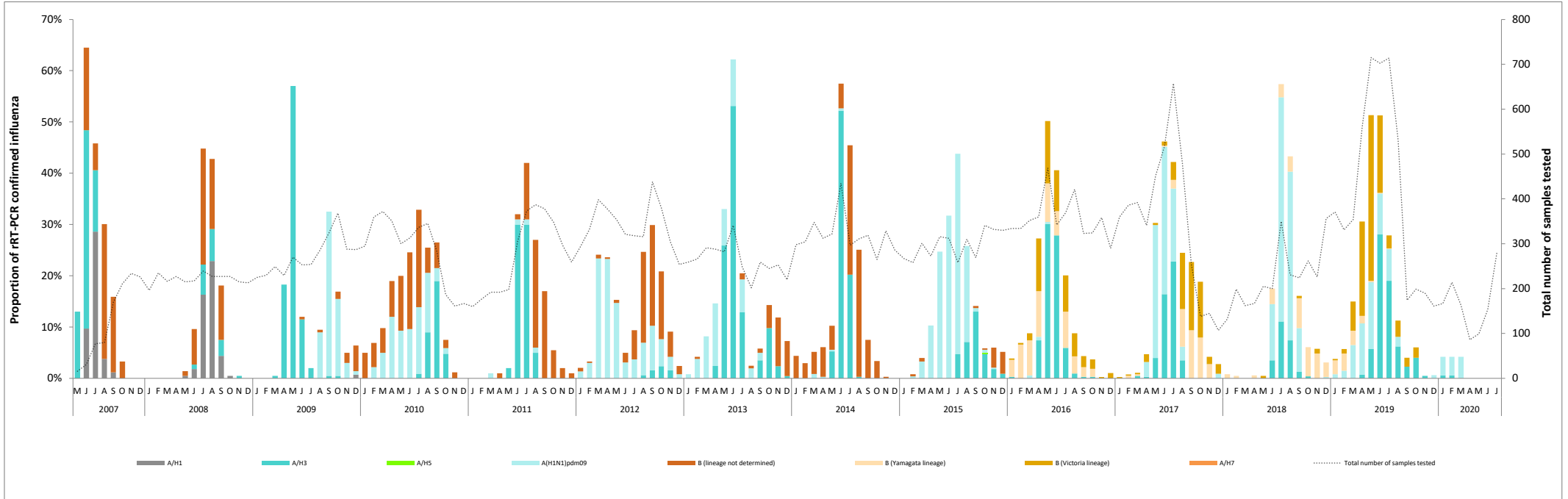
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

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

<sup>\*</sup>One sample from CuMCH (Cumilla) and two samples from KMCH (Khulna) collected in November 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

<sup>†</sup>Nine samples (one each from JIMCH, JRRMCH and MARMCH and two each from RMCH, KMCH and SBMCH) collected in December 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

**Hospital based influenza surveillance  
Influenza seasonality graph  
May 2007 - July 2020**



Note: Influenza B typing initiated in January 2016

