



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**December 2021**

**Hospital based influenza surveillance**  
**Monthly enrollment by different wards (Medicine, Pediatrics and CCU)**  
**December 2021**

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	15	0	0	10	0	0	2	0	0
RMCH	Rajshahi	15	0	0	8	0	0	0	0	0
CuMCH	Cumilla	13	0	0	9	0	0	3	0	0
KMCH	Khulna	10	0	0	7	0	0	0	0	0
JGH	Jashore	7	0	0	11	0	0	1	0	0
JRRMCH	Sylhet	6	0	0	12	0	0	1	0	0
SBMCH	Barishal	9	0	0	13	0	0	1	0	0
CMCH	Chattogram	21	0	0	9	0	0	0	0	0
MARMCH	Dinajpur	6	0	0	13	0	0	1	0	0
		<b>102</b>	<b>0</b>	<b>0</b>	<b>92</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**  
**December 2021**

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	19	0	0	8	0	0
RMCH	Rajshahi	15	0	0	8	0	0
CuMCH	Cumilla	17	0	0	8	0	0
KMCH	Khulna	10	0	0	7	0	0
JGH	Jashore	10	0	0	9	0	0
JRRMCH	Sylhet	9	0	0	10	0	0
SBMCH	Barishal	14	0	0	9	0	0
CMCH	Chattogram	21	0	0	9	0	0
MARMCH	Dinajpur	11	0	0	9	0	0
		<b>126</b>	<b>0</b>	<b>0</b>	<b>77</b>	<b>0</b>	<b>0</b>

**Hospital based influenza surveillance**  
**Influenza results by different age groups**  
**December 2021**

Age groups	December 2021						Initiation - December 2021								
	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	-	-	-	50	0	0	-	-	-	2665	189	7	8,213	484	6
1-4 Years	-	-	-	27	0	0	-	-	-	4217	601	14	3,173	465	15
5-14 Years	18	0	0	-	-	-	3871	880	23	2317	547	24	-	-	-
15-24 Years	12	0	0	-	-	-	4403	1022	23	2167	413	19	-	-	-
25-39 Years	19	0	0	-	-	-	4769	924	19	1916	299	16	-	-	-
40-59 Years	36	0	0	-	-	-	6004	976	16	1245	201	16	-	-	-
≥ 60 Years	41	0	0	-	-	-	5995	962	16	400	46	12	-	-	-
	<b>126</b>	<b>0</b>	<b>0</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>25,042</b>	<b>4,764</b>	<b>19</b>	<b>14,927</b>	<b>2,296</b>	<b>15</b>	<b>11,386</b>	<b>949</b>	<b>8</b>

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

**Hospital based influenza surveillance**  
**Hospitalwise influenza lab results**  
**Surveillance initiation - December 2021**

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A <sup>ψ</sup>	Flu B <sup>λ</sup>	Flu A+B <sup>τ</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	6209	1188	19	795 <sup>ι</sup>	393	0	9	408	0	0	376	64	159
RMCH	Rajshahi	May 2007	4253	527	12	349 <sup>ι</sup>	178	0	14	194	0	0	139	39	78
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	5641	693	12	461*	229	3	9	229	0	0	222	28	51
KMCH	Khulna	Jul 2007	3622	496	14	349* <sup>ι</sup>	147	0	16	166	0	0	163	17	69
JGH <sup>γ†</sup>	Jashore	Sep 2007	4452	890	20	558	331	1	10	275	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	4480	737	16	466 <sup>ι</sup>	270	1	16	222	0	0	227	34	93
SBMCH	Barishal	Aug 2007	6445	957	15	619 <sup>ι</sup>	334	4	9	295	0	0	313	56	129
CMCH	Chattogram	Apr 2014	3473	600	17	417	180	3	0	149	0	0	268	41	119
MARMCH <sup>²</sup>	Dinajpur	Apr 2014	2190	385	18	247 <sup>ι</sup>	138	0	0	122	0	0	122	28	89
			<b>51,355</b>	<b>8,009</b>	<b>16</b>	<b>5,297</b>	<b>2,699</b>	<b>13</b>	<b>137</b>	<b>2,590</b>	<b>1</b>	<b>0</b>	<b>2,553</b>	<b>395</b>	<b>1,010</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>γ</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>τ</sup>Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

<sup>ι</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).

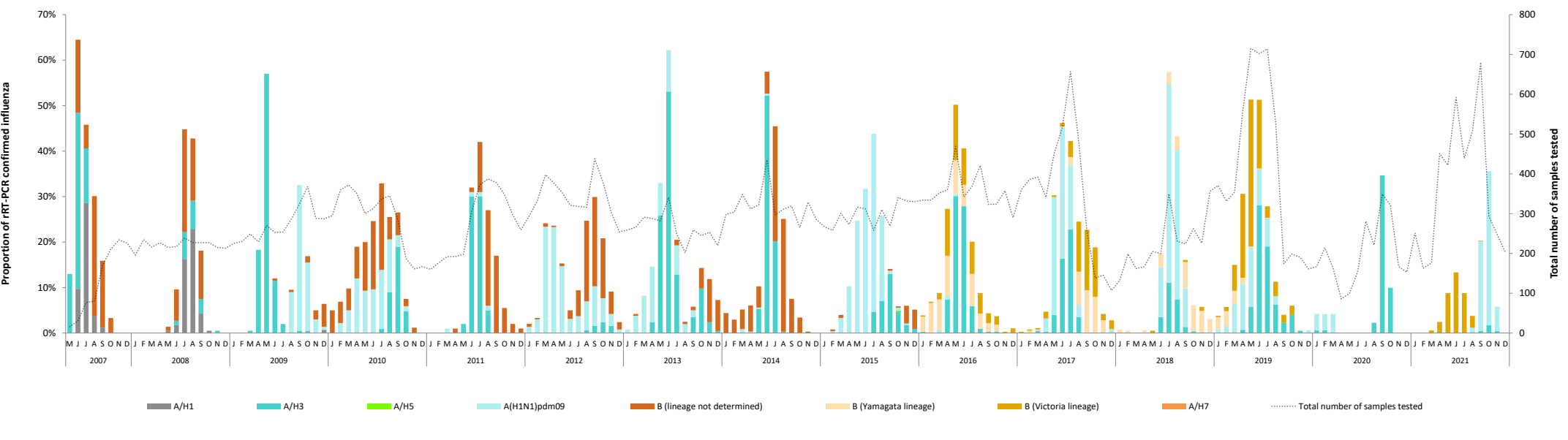
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

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

\*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>ι</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 - December 2021**



Note: Influenza B typing initiated in January 2016

**Hospital based influenza surveillance**  
**Influenza seasonality graph**  
**Week 01 of 2021 to week 52 of 2021**

