



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**March 2021**

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

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%	7	0	0%	3	0	0%
RMCH	Rajshahi	15	0	0%	6	0	0%	1	0	0%
CuMCH	Cumilla	14	1	7%	9	0	0%	1	0	0%
KMCH	Khulna	11	0	0%	7	0	0%	1	0	0%
JGH	Jashore	6	0	0%	8	0	0%	1	0	0%
JRRMCH	Sylhet	9	0	0%	5	0	0%	1	0	0%
SBMCH	Barishal	11	0	0%	9	0	0%	2	0	0%
CMCH	Chattogram	21	0	0%	5	0	0%	0	0	0%
MARMCH	Dinajpur	5	0	0%	7	0	0%	0	0	0%
		<b>98</b>	<b>1</b>	<b>1%</b>	<b>63</b>	<b>0</b>	<b>0%</b>	<b>10</b>	<b>0</b>	<b>0%</b>



**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**March 2021**

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	11	0	0%	5	0	0%
RMCH	Rajshahi	17	0	0%	5	0	0%
CuMCH	Cumilla	19	1	5%	5	0	0%
KMCH	Khulna	14	0	0%	5	0	0%
JGH	Jashore	10	0	0%	5	0	0%
JRRMCH	Sylhet	10	0	0%	5	0	0%
SBMCH	Barishal	17	0	0%	5	0	0%
CMCH	Chattogram	21	0	0%	5	0	0%
MARMCH	Dinajpur	7	0	0%	5	0	0%
		<b>126</b>	<b>1</b>	<b>0.8%</b>	<b>45</b>	<b>0</b>	<b>0%</b>

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

Age groups	March 2021						Initiation - March 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	-	-	-	30	0	0%	-	-	-	2665	189	7%	7,221	424	6%
1-4 Years	-	-	-	15	0	0%	-	-	-	4217	601	14%	2,737	396	14%
5-14 Years	18	0	0%	-	-	-	3617	810	22%	2317	547	24%	-	-	-
15-24 Years	9	0	0%	-	-	-	4229	982	23%	2167	413	19%	-	-	-
25-39 Years	17	1	6%	-	-	-	4284	859	20%	1916	299	16%	-	-	-
40-59 Years	33	0	0%	-	-	-	5220	917	18%	1245	201	16%	-	-	-
≥ 60 Years	49	0	0%	-	-	-	5279	895	17%	400	46	12%	-	-	-
	<b>126</b>	<b>1</b>	<b>0.8%</b>	<b>45</b>	<b>0</b>	<b>0%</b>	<b>22,629</b>	<b>4,463</b>	<b>20%</b>	<b>14,927</b>	<b>2,296</b>	<b>15%</b>	<b>9,958</b>	<b>820</b>	<b>8%</b>

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

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

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	5702	1112	20%	765 <sup>†</sup>	347	0	9	408	0	0	346	64	113
RMCH	Rajshahi	May 2007	3810	497	13%	331 <sup>†</sup>	166	0	14	193	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	5206	648	12%	429*	216	3	9	228	0	0	191	28	38
KMCH	Khulna	Jul 2007	3279	462	14%	325* <sup>†</sup>	137	0	16	162	0	0	143	17	59
JGH <sup>γ†</sup>	Jashore	Sep 2007	4119	843	20%	535	307	1	10	274	0	0	251	26	143
JRRMCH	Sylhet	Jul 2007	4096	697	17%	442 <sup>†</sup>	254	1	16	222	0	0	203	34	77
SBMCH	Barishal	Aug 2007	5936	896	15%	576 <sup>†</sup>	316	4	9	293	0	0	272	56	111
CMCH	Chattogram	Apr 2014	2902	521	18%	363	155	3	0	148	0	0	215	41	94
MARMCH <sup>2</sup>	Dinajpur	Apr 2014	1874	367	20%	234 <sup>†</sup>	133	0	0	122	0	0	109	28	84
			<b>47,514</b>	<b>7,579</b>	<b>16%</b>	<b>5,036</b>	<b>2,530</b>	<b>13</b>	<b>137</b>	<b>2,580</b>	<b>1</b>	<b>0</b>	<b>2,302</b>	<b>395</b>	<b>841</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.

\*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**  
**Week 13 of 2020 to week 12 of 2021**

