





# Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

May 2022

## Hospital based influenza surveillance Monthly enrollment by different wards (Medicine, Pediatrics and CCU) May 2022

Hospital	District	Γ	Aedicine ware	d	Pediatric	s ward (≤12 ye	ars of age)	Coronary Care Unit (CCU)			
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	
JIMCH	Kishoregonj	15	0	0	41	0	0	2	0	0	
RMCH	Rajshahi	28	0	0	25	0	0	0	0	0	
CuMCH	Cumilla	20	0	0	30	0	0	0	0	0	
КМСН	Khulna	16	0	0	31	0	0	0	0	0	
JGH	Jashore	13	0	0	35	0	0	1	0	0	
JRRMCH	Sylhet	11	0	0	35	0	0	0	0	0	
SBMCH	Barishal	14	0	0	45	0	0	1	0	0	
СМСН	Chattogram	27	0	0	39	0	0	4	0	0	
MARMCH	Dinajpur	17	1	6	27	0	0	1	0	0	
		161	1	0.6	308	0	0	9	0	0	

### Hospital based influenza surveillance Monthly hospitalwise influenza lab results May 2022

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	58	0	0	0	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	53	0	0	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	50	0	0	0	0	0	0	0	0	0	0	0	0
КМСН	Khulna	47	0	0	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	49	0	0	0	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	46	0	0	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	60	0	0	0	0	0	0	0	0	0	0	0	0
СМСН	Chattogram	70	0	0	0	0	0	0	0	0	0	0	0	0
MARMCH	Dinajpur	45	1	2	1	0	0	0	1	0	0	0	0	0
		478	1	0.2	1	0	0	0	1	0	0	0	0	0

# Hospital based influenza surveillance Monthly enrollment by different surveillance groups May 2022

Hospital	District	SA	ARI (aged ≥ 5 year	rs)	SARI (aged < 5 years)						
	DISTLICT	Sample	Flu	Flu %	Sample	Flu	Flu %				
JIMCH	Kishoregonj	23	0	0	35	0	0				
RMCH	Rajshahi	28	0	0	25	0	0				
CuMCH	Cumilla	22	0	0	28	0	0				
КМСН	Khulna	19	0	0	28	0	0				
JGH	Jashore	21	0	0	28	0	0				
JRRMCH	Sylhet	16	0	0	30	0	0				
SBMCH	Barishal	24	0	0	36	0	0				
СМСН	Chattogram	37	0	0	33	0	0				
MARMCH	Dinajpur	26	1	4	19	0	0				
		216	1	0.5	262	0	0				

# Hospital based influenza surveillance Influenza results by different age groups May 2022

	May 2022							Initiation - May 2022									
Age groups	SARI (aged ≥ 5 years)			SARI (a	aged < 5	years)	SARI (	aged ≥ 5	years)		ILI <sup>‡</sup>		SARI (a	aged < 5	years)		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %		
<1 Year	-	-	-	164	0	0	-	-	-	2665	189	7	8,651	484	6		
1-4 Years	-	-	-	98	0	0	-	-	-	4217	601	14	3,396	465	14		
5-14 Years	51	0	0	-	-	-	4038	880	22	2317	547	24	-	-	-		
15-24 Years	38	0	0	-	-	-	4490	1022	23	2167	413	19	-	-	-		
25-39 Years	28	0	0	-	-	-	4874	924	19	1916	299	16	-	-	-		
40-59 Years	45	1	2	-	-	-	6161	977	16	1245	201	16	-	-	-		
≥ 60 Years	54	0	0	-	-	-	6252	962	15	400	46	12	-	-	-		
	216	1	0.5	262	0	0	25,815	4,765	18	14,927	2,296	15	12,047	949	8		

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

#### Hospital based influenza surveillance Hospitalwise influenza lab results Surveillance initiation - May 2022

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A <sup>♥</sup>	Flu Β <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>Y</sup>	Dhaka	Jun 2007	2061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH <sup>Y</sup>	Mymensingh	Oct 2007	2053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	6372	1188	19	795 <sup>î</sup>	393	0	9	408	0	0	376	64	159
RMCH	Rajshahi	May 2007	4416	527	12	349 <sup>î</sup>	178	0	14	194	0	0	139	39	78
SZRMCH <sup>Y</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
$CuMCH^{T}$	Cumilla	Oct 2007	5800	693	12	461*	229	3	9	229	0	0	222	28	51
КМСН	Khulna	Jul 2007	3767	496	13	349* <sup>î</sup>	147	0	16	166	0	0	163	17	69
JGH <sup>YI</sup>	Jashore	Sep 2007	4593	890	19	558	331	1	10	275	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	4620	737	16	466 <sup>î</sup>	270	1	16	222	0	0	227	34	93
SBMCH	Barishal	Aug 2007	6621	957	14	619 <sup>î</sup>	334	4	9	295	0	0	313	56	129
СМСН	Chattogram	Apr 2014	3679	600	16	417	180	3	0	149	0	0	268	41	119
MARMCH <sup>2</sup>	Dinajpur	Apr 2014	2331	386	17	248 <sup>ï</sup>	138	0	0	123	0	0	122	28	89
			52,789	8,010	15	5,298	2,699	13	137	2,591	1	0	2,553	395	1,010

<sup>1</sup>Influenza B typing initiated in January 2016.

 ${}^{\Psi}$ rRT-PCR result of four samples were equivocal positive for Influenza A.

<sup>v</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>1</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>i</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>Ÿ</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).

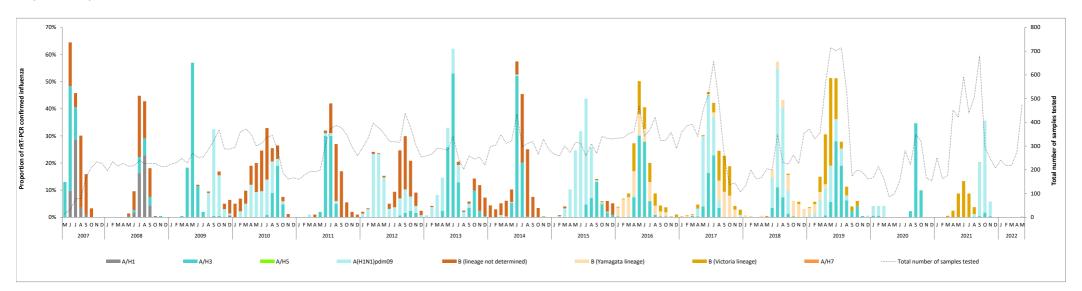
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

<sup>(\*)</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>î</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 - May 2022



Note: Influenza B typing initiated in January 2016

## Hospital based influenza surveillance Influenza seasonality graph Week 22 of 2021 to week 21 of 2022

