





Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

July 2021

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

Hospital	District	N	Medicine ward	d	Pediatrio	s ward (≤12 ye	ears of age)	Coronary Care Unit (CCU)			
	DISTRICT	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	
JIMCH	Kishoregonj	58	3	5	19	7	37	5	1	20	
RMCH	Rajshahi	35	1	3	11	2	18	0	0	0	
CuMCH	Cumilla	40	2	5	7	1	14	3	0	0	
KMCH	Khulna	11	2	18	16	3	19	0	0	0	
JGH	Jashore	15	0	0	0	0	0	2	0	0	
JRRMCH	Sylhet	43	1	2	5	1	20	0	0	0	
SBMCH	Barishal	42	0	0	27	2	7	0	0	0	
CMCH	Chattogram	54	0	0	11	0	0	0	0	0	
MARMCH	Dinajpur	27	0	0	8	2	25	0	0	0	
		325	9	3	104	18	17	10	1	10	

Hospital based influenza surveillance Monthly hospitalwise influenza lab results July 2021

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 Iineage	Flu B Victoria lineage
JIMCH	Kishoregonj	82	11	13	0	11	0	0	0	0	0	0	0	11
RMCH	Rajshahi	46	3	7	0	3	0	0	0	0	0	0	0	3
CuMCH	Cumilla	50	3	6	0	3	0	0	0	0	0	0	0	3
KMCH	Khulna	27	5	19	0	5	0	0	0	0	0	0	0	5
JGH	Jashore	17	0	0	0	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	48	2	4	0	2	0	0	0	0	0	0	0	2
SBMCH	Barishal	69	2	3	0	2	0	0	0	0	0	0	0	2
СМСН	Chattogram	65	0	0	0	0	0	0	0	0	0	0	0	0
MARMCH	Dinajpur	35	2	6	0	2	0	0	0	0	0	0	0	2
		439	28	6	0	28	0	0	0	0	0	0	0	28

Hospital based influenza surveillance Monthly enrollment by different surveillance groups July 2021

Hospital	District	SA	ARI (aged ≥ 5 year	rs)	SARI (aged < 5 years)					
Hospital	District	Sample	Flu	Flu %	Sample	Flu	Flu %			
JIMCH	Kishoregonj	66	6	9	16	5	31			
RMCH	Rajshahi	36	2	6	10	1	10			
CuMCH	Cumilla	43	2	5	7	1	14			
KMCH	Khulna	13	2	15	14	3	21			
JGH	Jashore	17	0	0	0	0	0			
JRRMCH	Sylhet	43	1	2	5	1	20			
SBMCH	Barishal	44	1	2	25	1	4			
CMCH	Chattogram	54	0	0	11	0	0			
MARMCH	Dinajpur	30	2	7	5	0	0			
		346	16	5	93	12	13			

Hospital based influenza surveillance Influenza results by different age groups July 2021

			July	2021			Initiation - July 2021									
Age groups	SARI (aged ≥ 5 years)			SARI (a	aged < 5	years)	SARI (aged ≥ 5	years)		ILI [‡]		SARI (a	aged < 5	years)	
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	
<1 Year	-	-	-	62	4	6	-	-	-	2665	189	7	7,590	453	6	
1-4 Years	-	-	-	31	8	26	-	-	-	4217	601	14	2,923	438	15	
5-14 Years	11	6	55	-	-	-	3689	830	22	2317	547	24	-	-	-	
15-24 Years	18	4	22	-	-	-	4318	1003	23	2167	413	19	-	-	-	
25-39 Years	83	1	1	-	-	-	4570	885	19	1916	299	16	-	-	-	
40-59 Years	121	2	2	-	-	-	5702	926	16	1245	201	16	-	-	-	
≥ 60 Years	113	3	3	-	-	-	5704	903	16	400	46	12	-	-	-	
	346	16	5	93	12	13	23,983	4,547	19	14,927	2,296	15	10,513	891	8	

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance Hospitalwise influenza lab results Surveillance initiation - July 2021

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A ^Ψ	Flu B ^x	Flu A+B [∓]	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata Iineage	Flu B Victoria Iineage
DNMCH	Dhaka	Jun 2007	2061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH ^Ÿ	Mymensingh	Oct 2007	2053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	5970	1158	19	765 ^î	393	0	9	408	0	0	346	64	159
RMCH	Rajshahi	May 2007	4009	503	13	331 ^ī	172	0	14	193	0	0	122	39	72
SZRMCH ^Y	Bogura	Sep 2007	3865	653	17	439	213	1	12	256	0	0	170	29	39
LAMB [†]	Dinajpur	Oct 2007	1171	112	10	72	40	0	7	41	0	0	24	1	0
BBMH [†]	Chattogram	Aug 2007	1440	157	11	118	39	0	13	42	0	0	63	3	0
CuMCH ^T	Cumilla	Oct 2007	5420	660	12	429*	228	3	9	228	0	0	191	28	50
KMCH	Khulna	Jul 2007	3440	472	14	325* ^î	147	0	16	162	0	0	143	17	69
JGH ^{YT}	Jashore	Sep 2007	4275	862	20	535	326	1	10	274	0	0	251	26	162
JRRMCH	Sylhet	Jul 2007	4302	713	17	442 ^î	270	1	16	222	0	0	203	34	93
SBMCH	Barishal	Aug 2007	6198	914	15	576 ^î	334	4	9	293	0	0	272	56	129
СМСН	Chattogram	Apr 2014	3191	545	17	363	179	3	0	148	0	0	215	41	118
MARMCH ²	Dinajpur	Apr 2014	2028	371	18	234 ^î	137	0	0	122	0	0	109	28	88
			49,423	7,734	16	5,036	2,685	13	137	2,580	1	0	2,302	395	996

¹Influenza B typing initiated in January 2016.

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

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.

^ΨrRT-PCR result of four samples were equivocal positive for Influenza A.

^ΨOne sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

¹Three samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage), another ten samples were unsubtypeable.

[†]Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

¹One sample collected in May 2019 was co-infected with both Influenza A(H3) and Influenza B (Victoria lineage).

[†]Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

^ŶSurveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

[†]Surveillance activities reinitiated at Cumilla Medical College Hospital (CuMCH), Cumilla in January 2018.

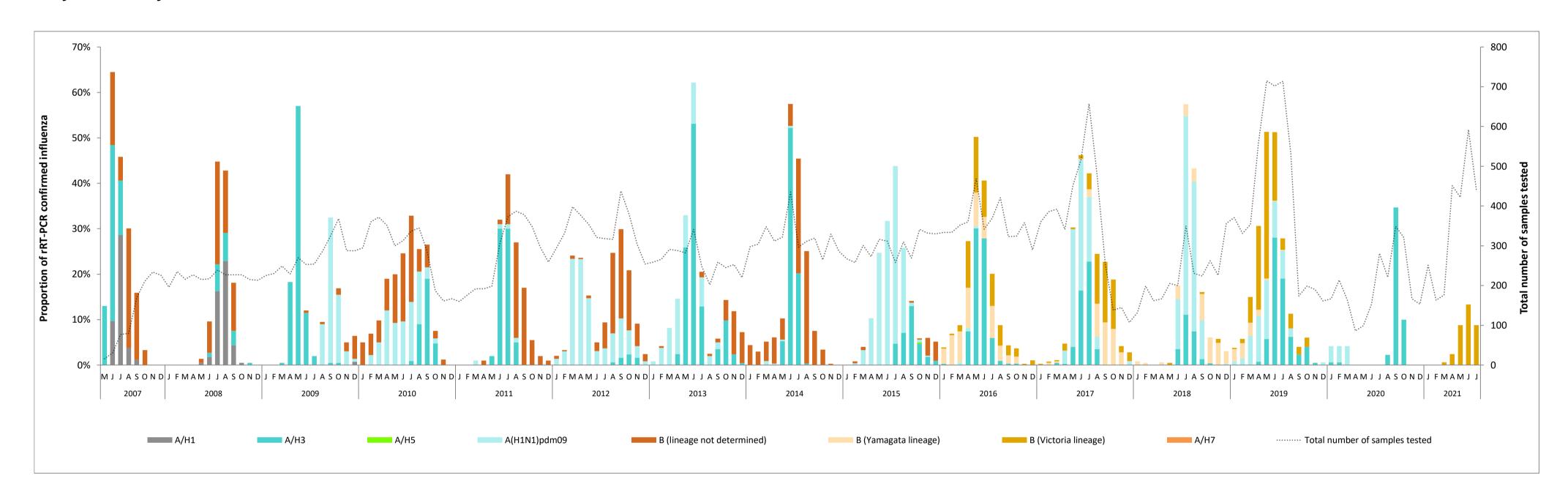
[†]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

²Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH).

^φIntensive 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.

Hospital based influenza surveillance Influenza seasonality graph May 2007 - July 2021



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance Influenza seasonality graph Week 31 of 2020 to week 30 of 2021

