



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

June 2022

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

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	21	4	19	49	2	4	4	0	0
RMCH	Rajshahi	25	1	4	33	0	0	0	0	0
CuMCH	Cumilla	26	8	31	32	1	3	2	0	0
KMCH	Khulna	12	2	17	41	0	0	1	0	0
JGH	Jashore	24	6	25	35	0	0	1	0	0
JRRMCH	Sylhet	18	2	11	27	1	4	2	1	50
SBMCH	Barishal	9	1	11	65	4	6	3	1	33
CMCH	Chattogram	43	25	58	55	10	18	2	0	0
MARMCH	Dinajpur	15	0	0	40	1	3	1	0	0
		193	49	25	377	19	5	16	2	13

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
June 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	74	6	8	6	0	0	0	6	0	0	0	0	0
RMCH	Rajshahi	58	1	2	1	0	0	0	1	0	0	0	0	0
CuMCH	Cumilla	60	9	15	8	1	0	0	8	0	0	0	0	1
KMCH	Khulna	54	2	4	2	0	0	0	2	0	0	0	0	0
JGH	Jashore	60	6	10	6	0	0	0	6	0	0	0	0	0
JRRMCH	Sylhet	47	4	9	4	0	0	0	4	0	0	0	0	0
SBMCH	Barishal	77	6	8	6	0	0	0	6	0	0	0	0	0
CMCH	Chattogram	100	35	35	35	0	0	0	35	0	0	0	0	0
MARMCH	Dinajpur	56	1	2	1	0	0	0	1	0	0	0	0	0
		586	70	12	69	1	0	0	69	0	0	0	0	1

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
June 2022

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	33	5	15	41	1	2
RMCH	Rajshahi	26	1	4	32	0	0
CuMCH	Cumilla	32	8	25	28	1	4
KMCH	Khulna	18	2	11	36	0	0
JGH	Jashore	28	6	21	32	0	0
JRRMCH	Sylhet	21	3	14	26	1	4
SBMCH	Barishal	36	5	14	41	1	2
CMCH	Chattogram	55	27	49	45	8	18
MARMCH	Dinajpur	24	0	0	32	1	3
		273	57	21	313	13	4

Hospital based influenza surveillance
Influenza results by different age groups
June 2022

Age groups	June 2022						Initiation - June 2022								
	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			SARI (aged ≥ 5 years)			ILI [‡]			SARI (aged < 5 years)		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	193	3	2	-	-	-	2665	189	7	8,844	487	6
1-4 Years	-	-	-	120	10	8	-	-	-	4217	601	14	3,516	475	14
5-14 Years	68	6	9	-	-	-	4106	886	22	2317	547	24	-	-	-
15-24 Years	55	20	36	-	-	-	4545	1042	23	2167	413	19	-	-	-
25-39 Years	45	11	24	-	-	-	4919	935	19	1916	299	16	-	-	-
40-59 Years	51	9	18	-	-	-	6212	986	16	1245	201	16	-	-	-
≥ 60 Years	54	11	20	-	-	-	6306	973	15	400	46	12	-	-	-
	273	57	21	313	13	4	26,088	4,822	18	14,927	2,296	15	12,360	962	8

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - June 2022

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A ^ψ	Flu B ^λ	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
DNMCH ^γ	Dhaka	Jun 2007	2061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH ^γ	Mymensingh	Oct 2007	2053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	6446	1194	19	801 ^ι	393	0	9	414	0	0	376	64	159
RMCH	Rajshahi	May 2007	4474	528	12	350 ^ι	178	0	14	195	0	0	139	39	78
SZRMCH ^γ	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 [‡]	Cumilla	Oct 2007	5860	702	12	469 [*]	230	3	9	237	0	0	222	28	52
KMCH	Khulna	Jul 2007	3821	498	13	351 ^{*ι}	147	0	16	168	0	0	163	17	69
JGH ^{γ1}	Jashore	Sep 2007	4653	896	19	564	331	1	10	281	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	4667	741	16	470 ^ι	270	1	16	226	0	0	227	34	93
SBMCH	Barishal	Aug 2007	6698	963	14	625 ^ι	334	4	9	301	0	0	313	56	129
CMCH	Chattogram	Apr 2014	3779	635	17	452	180	3	0	184	0	0	268	41	119
MARMCH ²	Dinajpur	Apr 2014	2387	387	16	249 ^ι	138	0	0	124	0	0	122	28	89
			53,375	8,080	15	5,367	2,700	13	137	2,660	1	0	2,553	395	1,011

^λInfluenza B typing initiated in January 2016.

^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.

^λThree 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).

^ιOne 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.

^γSurveillance 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).

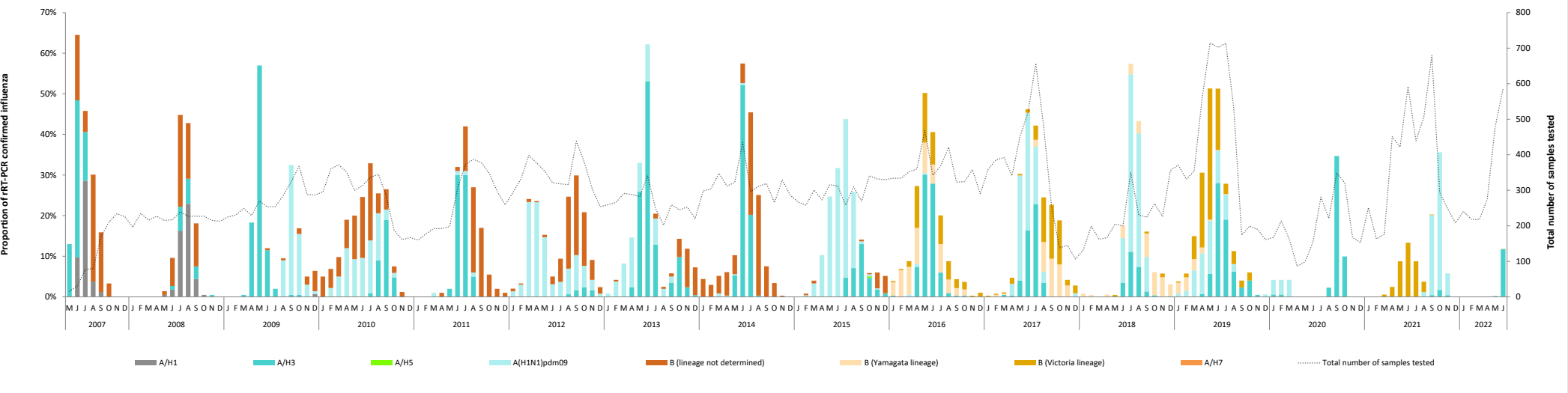
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^φ 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.

^ιNine 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 - June 2022



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance

Influenza seasonality graph

Week 26 of 2021 to week 25 of 2022

