



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

September 2022

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
September 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	26	0	0	45	0	0	2	0	0
RMCH	Rajshahi	29	0	0	36	0	0	0	0	0
CuMCH	Cumilla	25	0	0	44	0	0	1	0	0
KMCH	Khulna	19	0	0	42	1	2	0	0	0
JGH	Jashore	19	0	0	38	0	0	1	0	0
JRRMCH	Sylhet	10	0	0	39	0	0	1	0	0
SBMCH	Barishal	11	0	0	65	0	0	1	0	0
CMCH	Chattogram	35	0	0	50	1	2	1	0	0
MARMCH	Dinajpur	11	0	0	37	0	0	1	0	0
		185	0	0	396	2	0.5	8	0	0

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
September 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	73	0	0	0	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	65	0	0	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	70	0	0	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	61	1	2	1	0	0	0	1	0	0	0	0	0
JGH	Jashore	58	0	0	0	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	50	0	0	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	77	0	0	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	86	1	1	1	0	0	0	1	0	0	0	0	0
MARMCH	Dinajpur	49	0	0	0	0	0	0	0	0	0	0	0	0
		589	2	0.3	2	0	0	0	2	0	0	0	0	0

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

Hospital	District	SARI (aged $\geq$ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	32	0	0	41	0	0
RMCH	Rajshahi	32	0	0	33	0	0
CuMCH	Cumilla	29	0	0	41	0	0
KMCH	Khulna	25	0	0	36	1	3
JGH	Jashore	26	0	0	32	0	0
JRRMCH	Sylhet	19	0	0	31	0	0
SBMCH	Barishal	31	0	0	46	0	0
CMCH	Chattogram	44	0	0	42	1	2
MARMCH	Dinajpur	16	0	0	33	0	0
		254	0	0	335	2	0.6

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

Age groups	September 2022						Initiation - September 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	-	-	-	203	2	1	-	-	-	2665	189	7	9,299	505	5
1-4 Years	-	-	-	132	0	0	-	-	-	4217	601	14	3,865	508	13
5-14 Years	66	0	0	-	-	-	4308	907	21	2317	547	24	-	-	-
15-24 Years	31	0	0	-	-	-	4673	1071	23	2167	413	19	-	-	-
25-39 Years	48	0	0	-	-	-	5059	957	19	1916	299	16	-	-	-
40-59 Years	66	0	0	-	-	-	6411	1015	16	1245	201	16	-	-	-
≥ 60 Years	43	0	0	-	-	-	6573	1019	16	400	46	12	-	-	-
	254	0	0	335	2	0.6	27,024	4,969	18	14,927	2,296	15	13,164	1013	8

[‡]Outpatient ILI surveillance discontinued in October 2017.

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

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A ^ψ	Flu B ^λ	Flu A+B ^τ	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	6665	1225	18	831 ^ι	394	0	9	444	0	0	376	64	160
RMCH	Rajshahi	May 2007	4646	540	12	362 ^ι	178	0	14	207	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 ^τ	Cumilla	Oct 2007	6055	722	12	489 [*]	230	3	9	257	0	0	222	28	52
KMCH	Khulna	Jul 2007	3982	518	13	371 ^{*ι}	147	0	16	188	0	0	163	17	69
JGH ^{γι}	Jashore	Sep 2007	4836	937	19	605	331	1	10	322	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	4849	769	16	498 ^ι	270	1	16	254	0	0	227	34	93
SBMCH	Barishal	Aug 2007	6934	974	14	636 ^ι	334	4	9	312	0	0	313	56	129
CMCH	Chattogram	Apr 2014	4007	649	16	465	181	3	0	197	0	0	268	41	120
MARMCH ²	Dinajpur	Apr 2014	2551	408	16	270 ^ι	138	0	0	145	0	0	122	28	89
			55,115	8,278	15	5,563	2,702	13	137	2,856	1	0	2,553	395	1,013

^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.

^τThree 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).

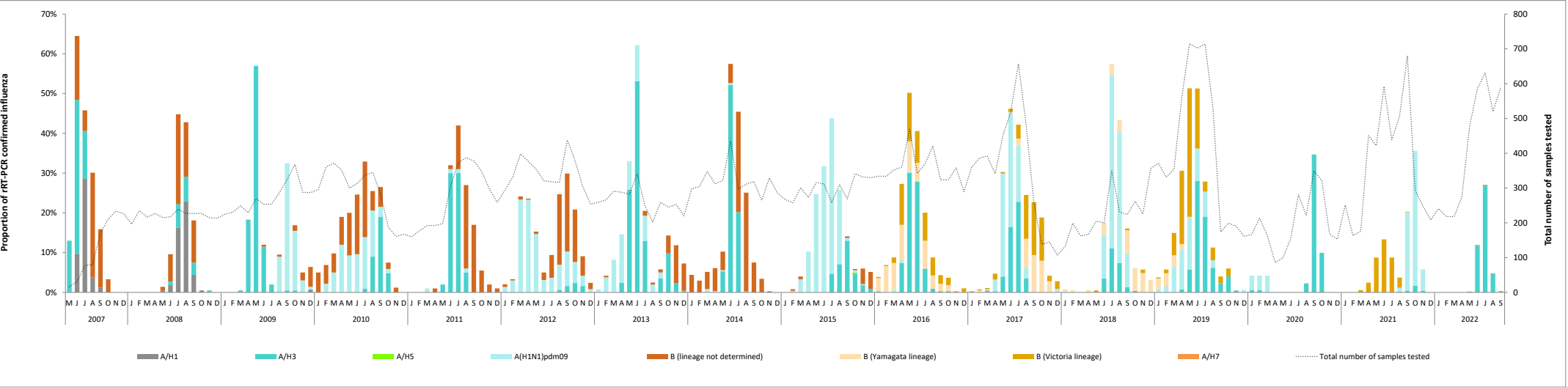
Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

^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 - September 2022



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance

Influenza seasonality graph

Week 39 of 2021 to week 38 of 2022

