



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

December 2022

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
December 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	31	0	0	33	0	0	4	0	0
RMCH	Rajshahi	15	0	0	8	0	0	1	0	0
CuMCH	Cumilla	13	0	0	13	0	0	7	0	0
KMCH	Khulna	11	0	0	10	0	0	0	0	0
JGH	Jashore	24	0	0	41	0	0	0	0	0
JRRMCH	Sylhet	19	1	5	41	0	0	2	0	0
SBMCH	Barishal	11	0	0	22	0	0	0	0	0
CMCH	Chattogram	44	0	0	37	0	0	0	0	0
MARMCH	Dinajpur	28	0	0	40	0	0	1	0	0
		196	1	0.5	245	0	0	15	0	0

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
December 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	68	0	0	0	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	24	0	0	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	33	0	0	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	21	0	0	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	65	0	0	0	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	62	1	2	0	1	0	0	0	0	0	0	0	1
SBMCH	Barishal	33	0	0	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	81	0	0	0	0	0	0	0	0	0	0	0	0
MARMCH	Dinajpur	69	0	0	0	0	0	0	0	0	0	0	0	0
		456	1	0.2	0	1	0	0	0	0	0	0	0	1

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	19	0	0	8	0	0	41	0	0
RMCH	Rajshahi	16	0	0	8	0	0	-	-	-
CuMCH	Cumilla	25	0	0	8	0	0	-	-	-
KMCH	Khulna	13	0	0	8	0	0	-	-	-
JGH	Jashore	9	0	0	10	0	0	46	0	0
JRRMCH	Sylhet	13	0	0	8	0	0	41	1	2
SBMCH	Barishal	23	0	0	10	0	0	-	-	-
CMCH	Chattogram	23	0	0	8	0	0	50	0	0
MARMCH	Dinajpur	11	0	0	8	0	0	50	0	0
		152	0	0	76	0	0	228	1	0.4

[‡]Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022 and JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

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

Age groups	December 2022									Initiation - December 2022								
	SARI (aged ≥ 5 years)			ILI [‡]			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 %	Sample	Flu	Flu %
<1 Year	-	-	-	35	0	0	52	0	0	-	-	-	2,705	189	7	9,470	505	5
1-4 Years	-	-	-	60	0	0	24	0	0	-	-	-	4,294	601	14	3,959	508	13
5-14 Years	38	0	0	38	0	0	-	-	-	4,430	907	20	2,365	547	23	-	-	-
15-24 Years	20	0	0	25	1	4	-	-	-	4,751	1,071	23	2,202	414	19	-	-	-
25-39 Years	22	0	0	32	0	0	-	-	-	5,123	957	19	1,954	299	15	-	-	-
40-59 Years	31	0	0	26	0	0	-	-	-	6,494	1,016	16	1,279	201	16	-	-	-
≥ 60 Years	41	0	0	12	0	0	-	-	-	6,665	1,019	15	414	46	11	-	-	-
	152	0	0	228	1	0.4	76	0	0	27,463	4,970	18	15,213	2,297	15	13,429	1013	8

[‡] Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022 and JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - December 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	2,061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH ^γ	Mymensingh	Oct 2007	2,053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	6,791	1,225	18	831 ^ι	394	0	9	444	0	0	376	64	160
RMCH	Rajshahi	May 2007	4,727	540	11	362 ^ι	178	0	14	207	0	0	139	39	78
SZRMCH ^γ	Bogura	Sep 2007	3,865	653	17	439	213	1	12	256	0	0	170	29	39
LAMB [†]	Dinajpur	Oct 2007	1,171	112	10	72	40	0	7	41	0	0	24	1	0
BBMH [†]	Chattogram	Aug 2007	1,440	157	11	118	39	0	13	42	0	0	63	3	0
CuMCH [‡]	Cumilla	Oct 2007	6,151	723	12	489*	231	3	9	257	0	0	222	28	53
KMCH	Khulna	Jul 2007	4,042	518	13	371 ^{*ι}	147	0	16	188	0	0	163	17	69
JGH ^{γι}	Jashore	Sep 2007	4,947	937	19	605	331	1	10	322	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	4,972	770	15	498 ^ι	271	1	16	254	0	0	227	34	94
SBMCH	Barishal	Aug 2007	7,039	974	14	636 ^ι	334	4	9	312	0	0	313	56	129
CMCH	Chattogram	Apr 2014	4,157	649	16	465	181	3	0	197	0	0	268	41	120
MARMCH ²	Dinajpur	Apr 2014	2,689	408	15	270 ^ι	138	0	0	145	0	0	122	28	89
			56,105	8,280	15	5,563	2,704	13	137	2,856	1	0	2,553	395	1,015

^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.

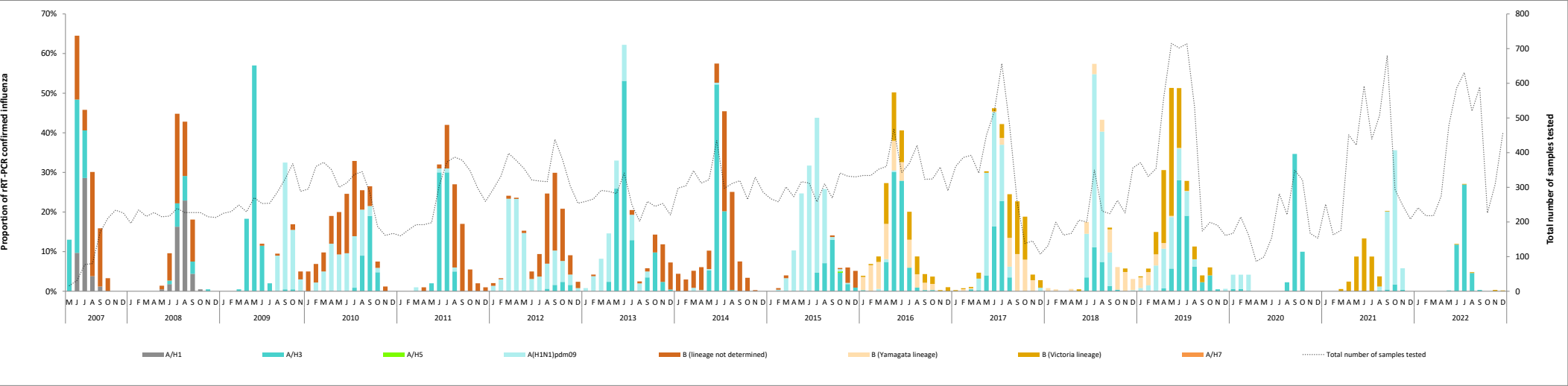
*One sample from CuMCH (Cumilla) and two samples from KMCH (Khulna) collected in November 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

^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.

Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022.

Outpatient ILI surveillance reinitiated at JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - December 2022



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 01 of 2022 to week 52 of 2022

