



Monthly summary report

Hospital-Based Human Influenza Surveillance in Bangladesh

July 2023

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
July 2023

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	85	47	55	55	21	38	1	0	0
RMCH	Rajshahi	33	7	21	23	1	4	1	0	0
CuMCH	Cumilla	26	10	38	20	7	35	2	2	100
KMCH	Khulna	12	9	75	33	17	52	0	0	0
JGH	Jashore	83	55	66	38	16	42	0	0	0
JRRMCH	Sylhet	48	25	52	62	27	44	2	2	100
SBMCH	Barishal	33	14	42	53	19	36	0	0	0
CMCH	Chattogram	79	38	48	63	29	46	0	0	0
MARMCH	Dinajpur	41	9	22	50	20	40	1	0	0
		440	214	49	397	157	40	7	4	57

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
July 2023

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	141	68	48	18	50	0	0	10	0	0	8	0	50
RMCH	Rajshahi	57	8	14	3	5	0	0	3	0	0	0	0	5
CuMCH	Cumilla	48	19	40	8	11	0	0	6	0	0	2	0	11
KMCH	Khulna	45	26	58	12	14	0	0	12	0	0	0	0	14
JGH	Jashore	121	71	59	31	38	2	0	27	0	0	4	0	38
JRRMCH	Sylhet	112	54	48	32	21	1	0	4	0	0	28	0	21
SBMCH	Barishal	86	33	38	14	19	0	0	9	0	0	5	0	19
CMCH	Chattogram	142	67	47	29	37	1	0	25	0	0	4	0	37
MARMCH	Dinajpur	92	29	32	6	23	0	0	4	0	0	2	0	23
		844	375	44	153	218	4	0	100	0	0	53	0	218

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
July 2023

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	66	45	68	25	7	28	50	16	32
RMCH	Rajshahi	35	7	20	22	1	5	-	-	-
CuMCH	Cumilla	33	15	45	15	4	27	-	-	-
KMCH	Khulna	26	19	73	19	7	37	-	-	-
JGH	Jashore	55	37	67	16	3	19	50	31	62
JRRMCH	Sylhet	37	21	57	30	9	30	45	24	53
SBMCH	Barishal	50	24	48	36	9	25	-	-	-
CMCH	Chattogram	49	21	43	43	17	40	50	29	58
MARMCH	Dinajpur	25	7	28	16	3	19	51	19	37
		376	196	52	222	60	27	246	119	48

[‡]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
July 2023

Age groups	July 2023									Initiation - July 2023								
	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	-	-	-	11	1	9	136	24	18	-	-	-	2,803	191	7	10,212	541	5
1-4 Years	-	-	-	31	11	35	86	36	42	-	-	-	4,513	621	14	4,343	558	13
5-14 Years	96	61	64	58	32	55	-	-	-	4,868	980	20	2,689	595	22	-	-	-
15-24 Years	92	48	52	76	41	54	-	-	-	5,015	1,128	22	2,595	474	18	-	-	-
25-39 Years	93	48	52	49	30	61	-	-	-	5,368	1,016	19	2,211	334	15	-	-	-
40-59 Years	57	24	42	15	4	27	-	-	-	6,792	1,046	15	1,452	211	15	-	-	-
≥ 60 Years	38	15	39	6	0	0	-	-	-	6,961	1,042	15	485	48	10	-	-	-
	376	196	52	246	119	48	222	60	27	29,004	5,212	18	16,748	2,474	15	14,555	1,099	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 - July 2023

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	7,474	1,306	17	851 ^ι	455	0	9	455	0	0	385	64	221
RMCH	Rajshahi	May 2007	4,998	548	11	365 ^ι	183	0	14	210	0	0	139	39	83
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	6,435	754	12	497*	254	3	9	263	0	0	224	28	76
KMCH	Khulna	Jul 2007	4,247	565	13	389* ^ι	176	0	16	206	0	0	163	17	98
JGH ^{γ†}	Jashore	Sep 2007	5,516	1026	19	644	379	3	10	353	0	0	281	26	215
JRRMCH	Sylhet	Jul 2007	5,520	848	15	535 ^ι	311	2	16	259	0	0	259	34	134
SBMCH	Barishal	Aug 2007	7,422	1013	14	653 ^ι	356	4	7	322	0	0	320	56	151
CMCH	Chattogram	Apr 2014	4,883	748	15	512	232	4	0	240	0	0	272	41	171
MARMCH ²	Dinajpur	Apr 2014	3,222	441	14	276 ^ι	165	0	0	149	0	0	124	28	116
			60,307	8,785	15	5,758	3,010	17	135	2,987	1	0	2,617	395	1,321

^λInfluenza B typing initiated in January 2016.

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

^γOne 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).

^ιSeven samples were 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 (Bogura) 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.

^φIntensive care units (ICU) surveillance discontinued in January 2019.

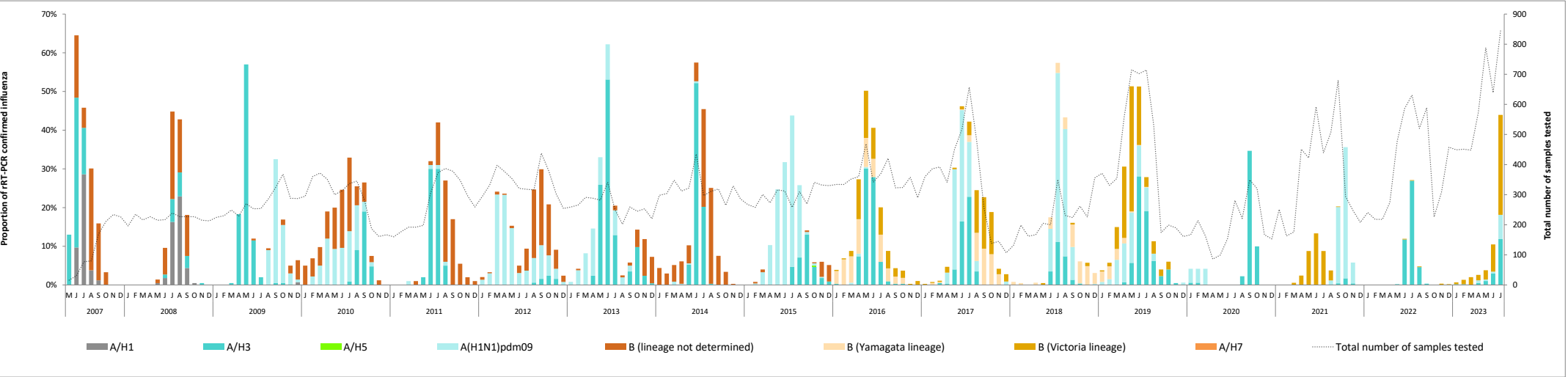
*One sample from CuMCH (Cumilla) and two samples from KMCH (Khulna) collected in November 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

^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 - July 2023



Hospital based influenza surveillance
Influenza seasonality graph
Week 31 of 2022 to week 30 of 2023

