



Monthly summary report

Hospital-Based Human Influenza Surveillance in Bangladesh

June 2023

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
June 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	52	4	8	49	3	6	1	0	0
RMCH	Rajshahi	16	0	0	26	0	0	0	0	0
CuMCH	Cumilla	23	1	4	17	2	12	3	0	0
KMCH	Khulna	20	8	40	20	4	20	0	0	0
JGH	Jashore	43	4	9	37	3	8	1	0	0
JRRMCH	Sylhet	31	6	19	50	8	16	0	0	0
SBMCH	Barishal	18	0	0	37	0	0	0	0	0
CMCH	Chattogram	56	13	23	57	9	16	0	0	0
MARMCH	Dinajpur	29	1	3	52	1	2	1	0	0
		288	37	13	345	30	9	6	0	0

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
June 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	102	7	7	1	6	0	0	0	0	0	1	0	6
RMCH	Rajshahi	42	0	0	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	43	3	7	0	3	0	0	0	0	0	0	0	3
KMCH	Khulna	40	12	30	4	8	0	0	4	0	0	0	0	8
JGH	Jashore	81	7	9	1	6	0	0	1	0	0	0	0	6
JRRMCH	Sylhet	81	14	17	3	11	0	0	1	0	0	2	0	11
SBMCH	Barishal	55	0	0	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	113	22	19	13	9	0	0	13	0	0	0	0	9
MARMCH	Dinajpur	82	2	2	0	2	0	0	0	0	0	0	0	2
		639	67	10	22	45	0	0	19	0	0	3	0	45

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	32	1	3	23	0	0	47	6	13
RMCH	Rajshahi	18	0	0	24	0	0	-	-	-
CuMCH	Cumilla	32	2	6	11	1	9	-	-	-
KMCH	Khulna	26	8	31	14	4	29	-	-	-
JGH	Jashore	20	3	15	17	0	0	44	4	9
JRRMCH	Sylhet	18	6	33	27	3	11	36	5	14
SBMCH	Barishal	33	0	0	22	0	0	-	-	-
CMCH	Chattogram	37	3	8	32	2	6	44	17	39
MARMCH	Dinajpur	17	2	12	22	0	0	43	0	0
		233	25	11	192	10	5	214	32	15

[‡]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
June 2023

Age groups	June 2023									Initiation - June 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	-	-	-	14	0	0	112	6	5	-	-	-	2,792	190	7	10,076	511	5
1-4 Years	-	-	-	28	5	18	80	4	5	-	-	-	4,482	605	13	4,257	518	12
5-14 Years	73	6	8	51	10	20	-	-	-	4,772	913	19	2,631	553	21	-	-	-
15-24 Years	40	3	8	56	10	18	-	-	-	4,923	1,077	22	2,519	423	17	-	-	-
25-39 Years	38	7	18	32	1	3	-	-	-	5,275	961	18	2,162	303	14	-	-	-
40-59 Years	41	5	12	28	5	18	-	-	-	6,735	1,017	15	1,437	202	14	-	-	-
≥ 60 Years	41	4	10	5	1	20	-	-	-	6,923	1,023	15	479	47	10	-	-	-
	233	25	11	214	32	15	192	10	5	28,628	4,991	17	16,502	2,323	14	14,333	1,029	7

[‡] 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 - June 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	7,333	1,238	17	833 ^ι	405	0	9	445	0	0	377	64	171
RMCH	Rajshahi	May 2007	4,941	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 ^τ	Cumilla	Oct 2007	6,387	735	12	489*	243	3	9	257	0	0	222	28	65
KMCH	Khulna	Jul 2007	4,202	539	13	377* ^ι	162	0	16	194	0	0	163	17	84
JGH ^{γτ}	Jashore	Sep 2007	5,395	955	18	613	341	1	10	326	0	0	277	26	177
JRRMCH	Sylhet	Jul 2007	5,408	794	15	503 ^ι	290	1	16	255	0	0	231	34	113
SBMCH	Barishal	Aug 2007	7,336	980	13	639 ^ι	337	4	7	313	0	0	315	56	132
CMCH	Chattogram	Apr 2014	4,741	681	14	483	195	3	0	215	0	0	268	41	134
MARMCH ²	Dinajpur	Apr 2014	3,130	412	13	270 ^ι	142	0	0	145	0	0	122	28	93
			59,463	8,410	14	5,605	2,792	13	135	2,887	1	0	2,564	395	1,103

^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.

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

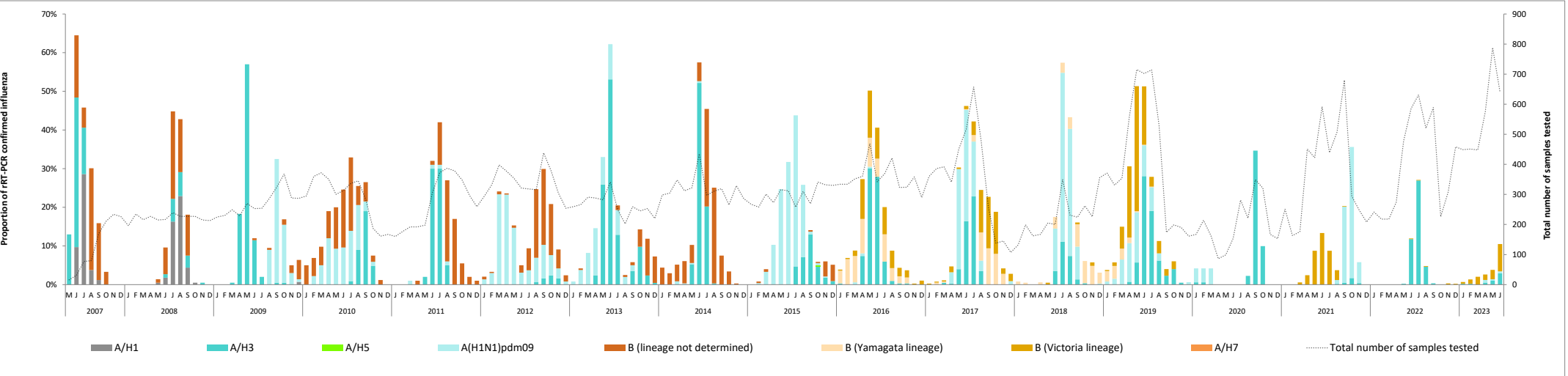
*One sample from CuMCH (Cumilla) and two samples from KMCH (Khulna) collected in November 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

^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 - June 2023



Hospital based influenza surveillance
Influenza seasonality graph
Week 28 of 2022 to week 27 of 2023

