



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

March 2023

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
March 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	43	1	2	33	1	3	4	0	0
RMCH	Rajshahi	9	0	0	9	0	0	0	0	0
CuMCH	Cumilla	14	1	7	17	1	6	1	0	0
KMCH	Khulna	3	0	0	9	0	0	0	0	0
JGH	Jashore	43	2	5	24	0	0	1	0	0
JRRMCH	Sylhet	29	0	0	31	2	6	0	0	0
SBMCH	Barishal	20	0	0	19	0	0	0	0	0
CMCH	Chattogram	47	0	0	31	0	0	1	0	0
MARMCH	Dinajpur	29	0	0	27	1	4	2	0	0
		237	4	1.7	200	5	2.5	9	0	0

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	27	0	0	9	1	11	44	1	2
RMCH	Rajshahi	9	0	0	9	0	0	-	-	-
CuMCH	Cumilla	22	1	5	10	1	10	-	-	-
KMCH	Khulna	4	0	0	8	0	0	-	-	-
JGH	Jashore	13	0	0	9	0	0	46	2	4
JRRMCH	Sylhet	10	1	10	8	0	0	42	1	2
SBMCH	Barishal	26	0	0	13	0	0	-	-	-
CMCH	Chattogram	23	0	0	10	0	0	46	0	0
MARMCH	Dinajpur	9	0	0	8	0	0	41	1	2
		143	2	1.4	84	2	2.4	219	5	2.3

[‡]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
March 2023

Age groups	March 2023									Initiation - March 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	-	-	-	18	0	0	56	1	2	-	-	-	2,750	190	7	9,649	506	5
1-4 Years	-	-	-	27	1	4	28	1	4	-	-	-	4,395	602	14	4,023	511	13
5-14 Years	37	1	3	48	2	4	-	-	-	4,551	908	20	2,502	551	22	-	-	-
15-24 Years	16	0	0	61	2	3	-	-	-	4,805	1,071	22	2,359	417	18	-	-	-
25-39 Years	17	1	6	30	0	0	-	-	-	5,176	958	19	2,057	301	15	-	-	-
40-59 Years	34	0	0	28	0	0	-	-	-	6,596	1,016	15	1,361	201	15	-	-	-
≥ 60 Years	39	0	0	7	0	0	-	-	-	6,785	1,020	15	451	46	10	-	-	-
	143	2	1.4	219	5	2.3	84	2	2.4	27,913	4,973	18	15,875	2,308	15	13,672	1,017	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 - March 2023

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	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	7,027	1,228	17	831 [†]	397	0	9	444	0	0	376	64	163
RMCH	Rajshahi	May 2007	4,793	540	11	362 [†]	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	6,248	727	12	489 [*]	235	3	9	257	0	0	222	28	57
KMCH	Khulna	Jul 2007	4,088	518	13	371 ^{*†}	147	0	16	188	0	0	163	17	69
JGH [‡]	Jashore	Sep 2007	5,148	940	18	606	333	1	10	322	0	0	274	26	169
JRRMCH	Sylhet	Jul 2007	5,159	775	15	498 [†]	276	1	16	254	0	0	227	34	99
SBMCH	Barishal	Aug 2007	7,142	974	14	636 [†]	334	4	9	312	0	0	313	56	129
CMCH	Chattogram	Apr 2014	4,389	650	15	466	181	3	0	198	0	0	268	41	120
MARMCH [‡]	Dinajpur	Apr 2014	2,876	410	14	270 [†]	140	0	0	145	0	0	122	28	91
			57,460	8,298	14	5,565	2,720	13	137	2,857	1	0	2,554	395	1,031

^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).

[†]One 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.

[‡]Dinajpur 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.

[†]Nine 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.

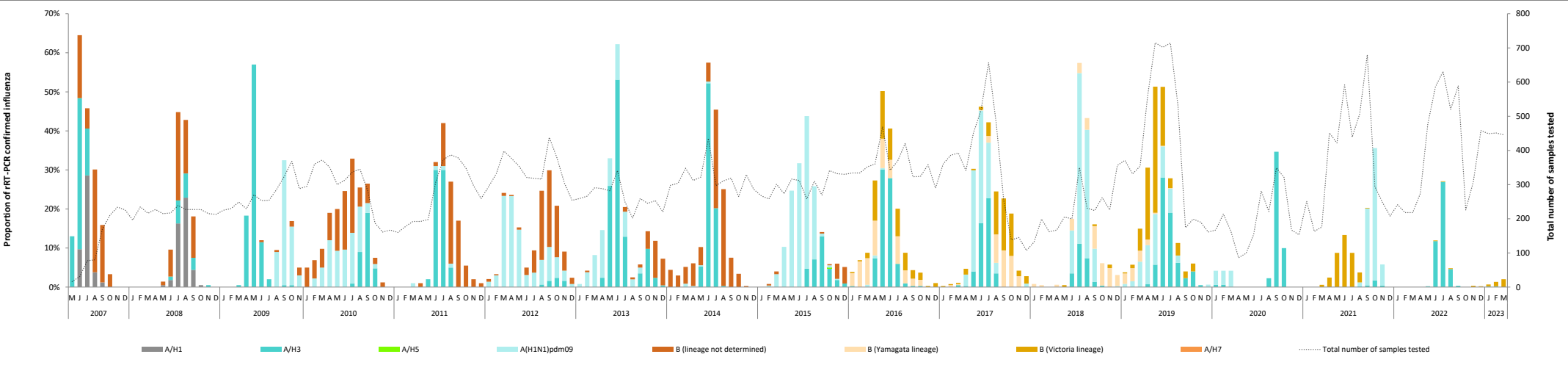
Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022.

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

Hospital based influenza surveillance

Influenza seasonality graph

May 2007 - March 2023



Note: Lineage determining for influenza B/Victoria and B/Yamagata initiated in January 2016

