



Monthly summary report

Hospital-Based Human Influenza Surveillance in Bangladesh

August 2023

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
August 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	88	50	57	50	31	62	1	0	0
RMCH	Rajshahi	36	14	39	29	11	38	0	0	0
CuMCH	Cumilla	23	12	52	35	14	40	1	0	0
KMCH	Khulna	29	20	69	41	8	20	0	0	0
JGH	Jashore	88	61	69	53	39	74	0	0	0
JRRMCH	Sylhet	56	26	46	53	23	43	1	0	0
SBMCH	Barishal	40	12	30	54	21	39	0	0	0
CMCH	Chattogram	63	27	43	85	34	40	0	0	0
MARMCH	Dinajpur	36	25	69	57	28	49	0	0	0
		459	247	54	457	209	46	3	0	0

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
August 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	139	81	58	45	36	0	0	28	0	0	17	0	36
RMCH	Rajshahi	65	25	38	18	7	0	0	15	0	0	3	0	7
CuMCH	Cumilla	59	26	44	18	8	0	0	13	0	0	5	0	8
KMCH	Khulna	70	28	40	15	12	1	0	9	0	0	6	0	12
JGH	Jashore	141	100	71	59	41	0	0	49	0	0	10	0	41
JRRMCH	Sylhet	110	49	45	27	22	0	0	11	0	0	16	0	22
SBMCH	Barishal	94	33	35	24	9	0	0	11	0	0	13	0	9
CMCH	Chattogram	148	61	41	36	25	0	0	20	0	0	16	0	25
MARMCH	Dinajpur	93	53	57	13	40	0	0	4	0	0	9	0	40
		919	456	50	255	200	1	0	160	0	0	95	0	200

[‡]One sample was co-infected with both Influenza A(H3) and Influenza B (Victoria lineage).

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	68	41	60	21	12	57	50	28	56
RMCH	Rajshahi	40	16	40	25	9	36	-	-	-
CuMCH	Cumilla	35	13	37	24	13	54	-	-	-
KMCH	Khulna	36	23	64	34	5	15	-	-	-
JGH	Jashore	75	53	71	16	10	63	50	37	74
JRRMCH	Sylhet	41	17	41	19	8	42	50	24	48
SBMCH	Barishal	56	19	34	38	14	37	-	-	-
CMCH	Chattogram	54	19	35	44	13	30	50	29	58
MARMCH	Dinajpur	27	16	59	26	11	42	40	26	65
		432	217	50	247	95	38	240	144	60

[‡]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
August 2023

Age groups	August 2023									Initiation - August 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	-	-	-	2	1	50	134	39	29	-	-	-	2,805	192	7	10,346	580	6
1-4 Years	-	-	-	35	21	60	113	56	50	-	-	-	4,548	642	14	4,456	614	14
5-14 Years	133	68	51	61	37	61	-	-	-	5,001	1,048	21	2,750	632	23	-	-	-
15-24 Years	79	48	61	69	45	65	-	-	-	5,094	1,176	23	2,664	519	19	-	-	-
25-39 Years	76	36	47	43	25	58	-	-	-	5,444	1,052	19	2,254	359	16	-	-	-
40-59 Years	76	34	45	22	11	50	-	-	-	6,868	1,080	16	1,474	222	15	-	-	-
≥ 60 Years	68	31	46	8	4	50	-	-	-	7,029	1,073	15	493	52	11	-	-	-
	432	217	50	240	144	60	247	95	38	29,436	5,429	18	16,988	2,618	15	14,802	1,194	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 - August 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 ^Y	Dhaka	Jun 2007	2,061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH ^Y	Mymensingh	Oct 2007	2,053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	7,613	1,387	18	896	491	0	9	483	0	0	402	64	257
RMCH	Rajshahi	May 2007	5,063	573	11	383	190	0	14	225	0	0	142	39	90
SZRMCH ^Y	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	6,494	780	12	515	262	3	9	276	0	0	229	28	84
KMCH	Khulna	Jul 2007	4,317	593	14	404	188	1	16	215	0	0	169	17	110
JGH ^{Y†}	Jashore	Sep 2007	5,657	1126	20	703	420	3	10	402	0	0	291	26	256
JRRMCH	Sylhet	Jul 2007	5,630	897	16	562	333	2	16	270	0	0	275	34	156
SBMCH	Barishal	Aug 2007	7,516	1046	14	677	365	4	7	333	0	0	333	56	160
CMCH	Chattogram	Apr 2014	5,031	809	16	548	257	4	0	260	0	0	288	41	196
MARMCH ²	Dinajpur	Apr 2014	3,315	494	15	289	205	0	0	153	0	0	133	28	156
			61,226	9,241	15	6,013	3,210	18	135	3,147	1	0	2,712	395	1,521

^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).

[†]Eight 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.

^YSurveillance 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.

[¶]Intensive care units (ICU) surveillance discontinued in January 2019.

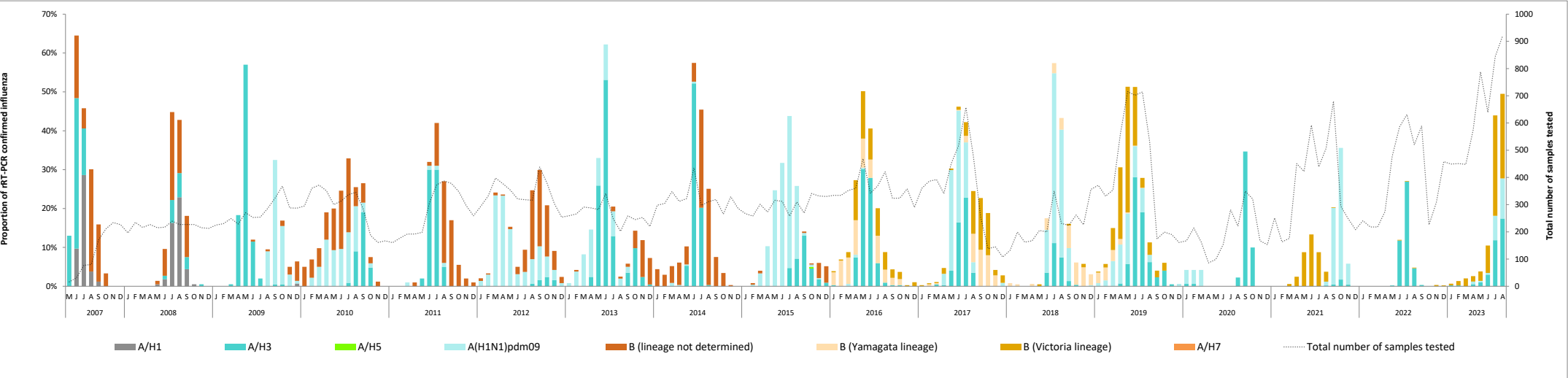
*One sample from CuMCH (Cumilla) and two samples from KMCH (Khulna) collected in November 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

[†]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 - August 2023



Hospital based influenza surveillance
Influenza seasonality graph
Week 35 of 2022 to week 34 of 2023

