



Monthly summary report

Hospital-Based Human Influenza Surveillance in Bangladesh

January 2024

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
January 2024

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	34	0	0	33	1	3	1	0	0
RMCH	Rajshahi	15	0	0	11	0	0	0	0	0
CuMCH	Cumilla	17	0	0	17	0	0	2	0	0
KMCH	Khulna	12	0	0	11	0	0	0	0	0
JGH	Jashore	42	1	2	31	0	0	0	0	0
JRRMCH	Sylhet	28	1	4	33	2	6	0	0	0
SBMCH	Barishal	15	0	0	14	0	0	0	0	0
CMCH	Chattogram	54	0	0	32	1	3	0	0	0
MARMCH	Dinajpur	31	0	0	28	0	0	1	0	0
		248	2	1	210	4	2	4	0	0

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
January 2024

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	1	1	1	0	0	0	1	0	0	0	0	0
RMCH	Rajshahi	26	0	0	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	36	0	0	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	23	0	0	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	73	1	1	1	0	0	0	0	0	0	1	0	0
JRRMCH	Sylhet	61	3	5	3	0	0	0	1	0	0	2	0	0
SBMCH	Barishal	29	0	0	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	86	1	1	1	0	0	0	0	0	0	1	0	0
MARMCH	Dinajpur	60	0	0	0	0	0	0	0	0	0	0	0	0
		462	6	1	6	0	0	0	2	0	0	4	0	0

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
January 2024

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	14	1	7	8	0	0	46	0	0
RMCH	Rajshahi	17	0	0	9	0	0	-	-	-
CuMCH	Cumilla	26	0	0	10	0	0	-	-	-
KMCH	Khulna	13	0	0	10	0	0	-	-	-
JGH	Jashore	15	0	0	8	0	0	50	1	2
JRRMCH	Sylhet	6	0	0	10	0	0	45	3	7
SBMCH	Barishal	20	0	0	9	0	0	-	-	-
CMCH	Chattogram	26	0	0	10	1	10	50	0	0
MARMCH	Dinajpur	18	0	0	9	0	0	33	0	0
		155	1	1	83	1	1	224	4	2

[‡]Outpatient ILI surveillance reinitiated at JIMCH (Kishoregonj), JGH (Jashore), JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2023.

Hospital based influenza surveillance
Influenza results by different age groups
January 2024

Age groups	January 2024									Initiation - January 2024								
	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	-	-	-	20	0	0	48	0	0	-	-	-	2,856	193	7	10,796	616	6
1-4 Years	-	-	-	43	0	0	35	1	3	-	-	-	4,671	652	14	4,678	659	14
5-14 Years	40	1	3	31	2	6	-	-	-	5,243	1096	21	2,869	655	23	-	-	-
15-24 Years	29	0	0	42	0	0	-	-	-	5,263	1204	23	2,807	535	19	-	-	-
25-39 Years	27	0	0	37	0	0	-	-	-	5,585	1063	19	2,376	376	16	-	-	-
40-59 Years	28	0	0	43	1	2	-	-	-	7,060	1107	16	1,576	230	15	-	-	-
≥ 60 Years	31	0	0	8	1	13	-	-	-	7,181	1098	15	514	56	11	-	-	-
	155	1	1	224	4	2	83	1	1	30,332	5,568	18	17,669	2,697	15	15,474	1,275	8

[‡]Outpatient ILI surveillance reinitiated at JIMCH (Kishoregonj), JGH (Jashore), JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2023.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation (May 2007) - January 2024

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	7,949	1,431	18	923	507	1	9	500	0	0	411	64	273
RMCH	Rajshahi	May 2007	5,227	590	11	396	194	0	14	233	0	0	147	39	94
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	6,684	807	12	534	270	3	9	287	0	0	237	28	92
KMCH	Khulna	Jul 2007	4,474	608	14	417	190	1	16	218	0	0	179	17	112
JGH ^{γ†}	Jashore	Sep 2007	5,972	1186	20	734	449	3	10	411	0	0	312	26	285
JRRMCH	Sylhet	Jul 2007	5,903	936	16	588	346	2	16	281	0	0	287	34	169
SBMCH	Barishal	Aug 2007	7,724	1060	14	685	371	4	7	336	0	0	338	56	166
CMCH	Chattogram	Apr 2014	5,408	847	16	570	273	4	0	269	0	0	300	41	212
MARMCH [‡]	Dinajpur	Apr 2014	3,544	539	15	319	220	0	0	158	0	0	158	28	171
			63,475	9,540	15	6,202	3,319	19	135	3,225	1	0	2,823	395	1,630

^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.

[‡]Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

[†]Nine 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.

Outpatient ILI surveillance discontinued in October 2017.

^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.

[‡]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.

^γ 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.

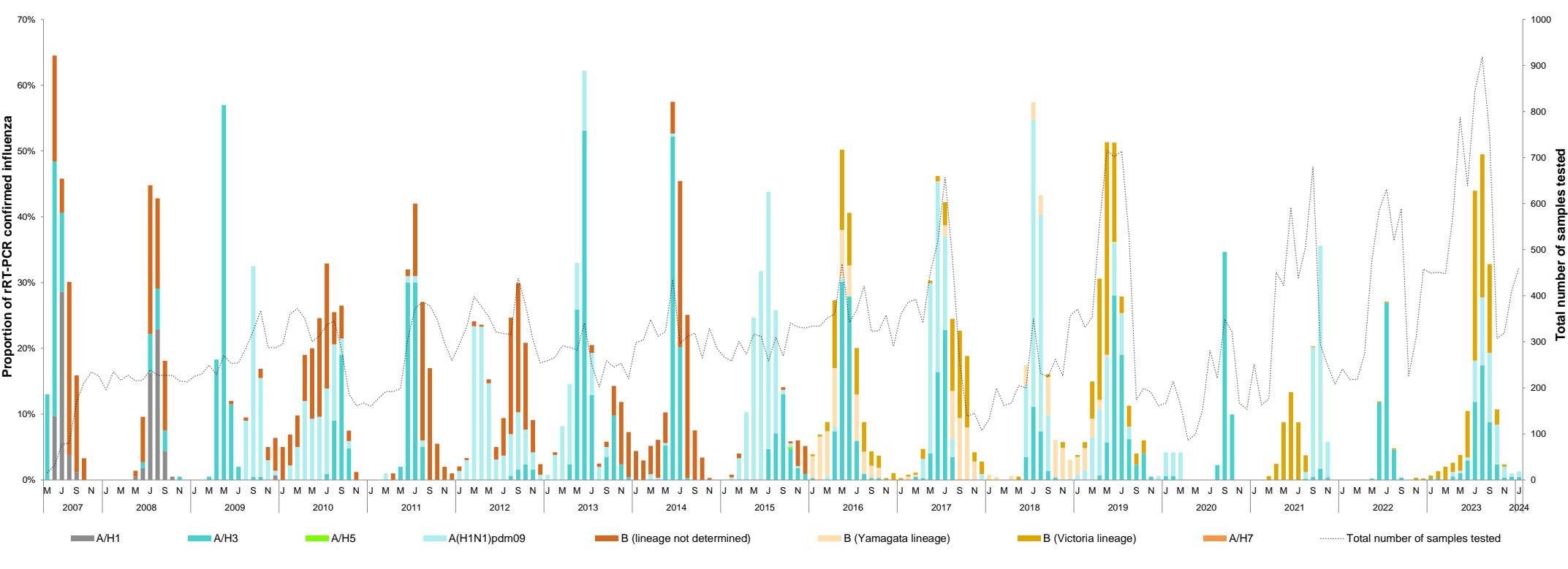
Outpatient ILI surveillance discontinued in October 2023.

Outpatient ILI surveillance reinitiated at JIMCH (Kishoregonj), JGH (Jashore), JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2023.

Hospital based influenza surveillance

Influenza seasonality graph

May 2007 - January 2024



Note: Influenza B lineages initiated in January 2016

Hospital based influenza surveillance
Hospital-wise SARS-CoV-2 lab results
January 2024

Hospital	District	January 2024			March 2020 - January 2024		
		Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
JIMCH	Kishoregonj	68	4	6	2,556	135	5
RMCH	Rajshahi	26	0	0	1,760	141	8
CuMCH	Cumilla	36	2	6	1,706	125	7
KMCH	Khulna	23	1	4	1,495	203	14
JGH	Jashore	73	3	4	2,088	193	9
JRRMCH	Sylhet	61	7	11	2,070	179	9
SBMCH	Barishal	29	1	3	2,117	165	8
CMCH	Chattogram	86	10	12	2,867	255	9
MARMCH	Dinajpur	60	1	2	1,881	122	6
		462	29	6	18,540	1,518	8

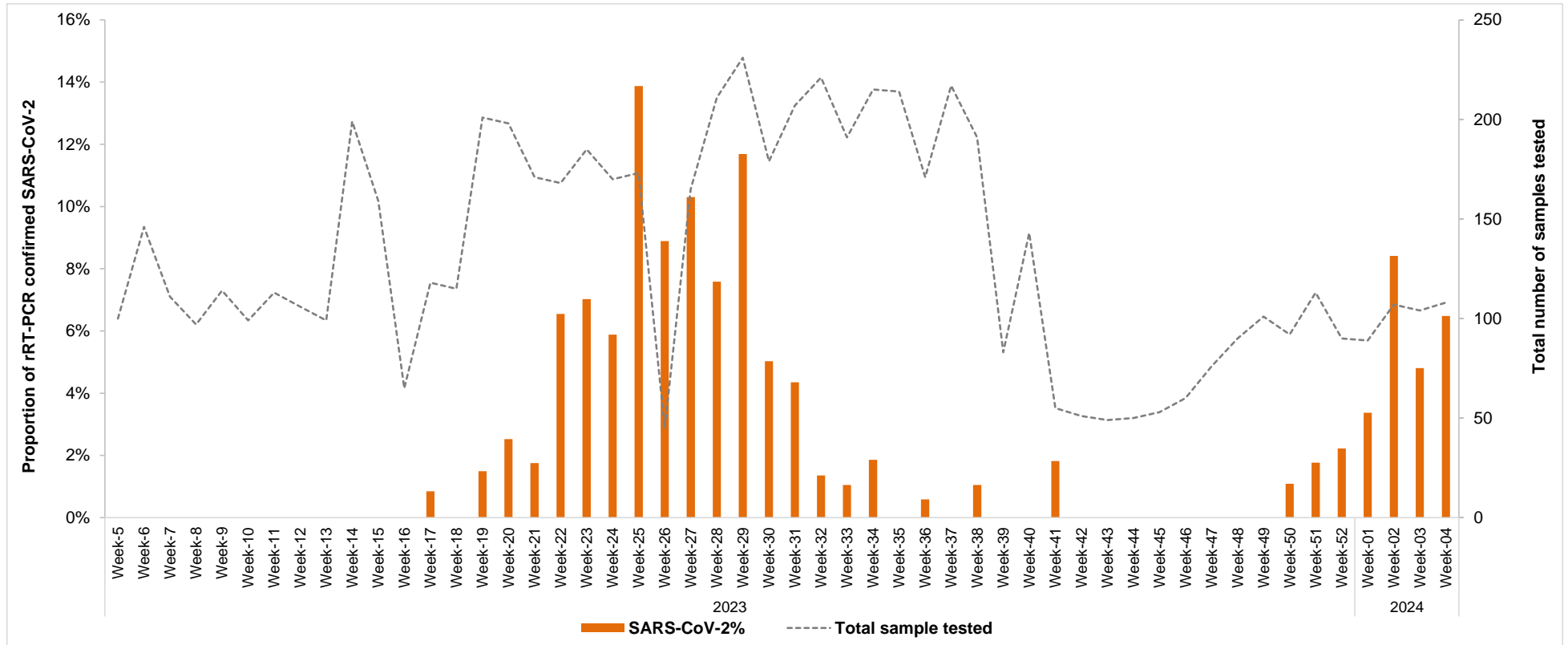
**Hospital based influenza surveillance
SARS-CoV-2 results by different age groups
January 2024**

Age groups	January 2024			March 2020 - January 2024		
	Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
<1 Year	68	5	7	4350	144	3
1-4 Years	78	2	3	2692	36	1
5-14 Years	71	5	7	2,392	53	2
15-24 Years	71	4	6	1,822	101	6
25-39 Years	64	4	6	2,063	288	14
40-59 Years	71	7	10	2,729	474	17
≥ 60 Years	39	2	5	2,492	422	17
	462	29	6	18,540	1,518	8

Hospital based influenza surveillance

SARS-CoV-2 positivity trend by week

Week 05 of 2023 to week 04 of 2024



Hospital based influenza surveillance
Influenza and SARS-CoV-2 positivity graph
March 2020 - January 2024

