



Monthly summary report

Hospital-Based Human Influenza Surveillance in Bangladesh

August 2024

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
August 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	116	10	9	10	0	0	0	6	0	0	4	0	0
RMCH	Rajshahi	50	1	2	1	0	0	0	0	0	0	1	0	0
CuMCH	Cumilla	58	3	5	3	0	0	0	1	0	0	2	0	0
KMCH	Khulna	34	4	12	4	0	0	0	3	0	0	1	0	0
JGH	Jashore	83	13	16	13	0	0	0	9	0	0	4	0	0
JRRMCH	Sylhet	93	0	0	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	63	5	8	5	0	0	0	2	0	0	3	0	0
CMCH	Chattogram	126	10	8	10	0	0	0	2	0	0	8	0	0
MARMCH	Dinajpur	84	2	2	2	0	0	0	1	0	0	1	0	0
		707	48	7	48	0	0	0	24	0	0	24	0	0

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
August 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	57	10	18	57	0	0	2	0	0
RMCH	Rajshahi	27	1	4	23	0	0	0	0	0
CuMCH	Cumilla	28	3	11	28	0	0	2	0	0
KMCH	Khulna	18	2	11	16	2	13	0	0	0
JGH	Jashore	49	11	22	34	2	6	0	0	0
JRRMCH	Sylhet	41	0	0	52	0	0	0	0	0
SBMCH	Barishal	15	4	27	48	1	2	0	0	0
CMCH	Chattogram	59	5	8	67	5	7	0	0	0
MARMCH	Dinajpur	38	0	0	44	2	5	2	0	0
		332	36	11	369	12	3	6	0	0

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	30	6	20	36	0	0	50	4	8
RMCH	Rajshahi	29	1	3	21	0	0	-	-	-
CuMCH	Cumilla	31	3	10	27	0	0	-	-	-
KMCH	Khulna	21	2	10	13	2	15	-	-	-
JGH	Jashore	24	6	25	16	1	6	43	6	14
JRRMCH	Sylhet	17	0	0	32	0	0	44	0	0
SBMCH	Barishal	18	4	22	45	1	2	-	-	-
CMCH	Chattogram	34	4	12	44	1	2	48	5	10
MARMCH	Dinajpur	14	1	7	26	0	0	44	1	2
		218	27	12	260	5	2	229	16	7

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

Age groups	August 2024									Initiation - August 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	-	-	-	7	0	0	160	1	1	-	-	-	2,908	195	7	11,527	725	6
1-4 Years	-	-	-	34	2	6	100	4	4	-	-	-	4,910	717	15	5,235	824	16
5-14 Years	43	5	12	39	1	3	-	-	-	5,583	1209	22	3,149	735	23	-	-	-
15-24 Years	47	5	11	60	8	13	-	-	-	5,613	1298	23	3,187	625	20	-	-	-
25-39 Years	32	5	16	47	4	9	-	-	-	5,867	1149	20	2,616	434	17	-	-	-
40-59 Years	54	6	11	29	0	0	-	-	-	7,469	1201	16	1,760	257	15	-	-	-
≥ 60 Years	42	6	14	13	1	8	-	-	-	7,546	1177	16	604	66	11	-	-	-
	218	27	12	229	16	7	260	5	2	32,078	6,034	19	19,134	3,029	16	16,762	1,549	9

[‡]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 - August 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	8,653	1,569	18	1061	507	1	9	592	0	0	458	64	273
RMCH	Rajshahi	May 2007	5,529	635	11	441	194	0	14	272	0	0	153	39	94
SZRMCH ^γ	Bogra	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	7,043	868	12	595	270	3	9	323	0	0	262	28	92
KMCH	Khulna	Jul 2007	4,710	673	14	482	190	1	16	263	0	0	198	17	112
JGH ^{γ†}	Jashore	Sep 2007	6,584	1401	21	949	449	3	10	537	0	0	402	26	285
JRRMCH	Sylhet	Jul 2007	6,453	1072	17	724	346	2	16	382	0	0	325	34	169
SBMCH	Barishal	Aug 2007	8,112	1154	14	779	371	4	7	410	0	0	358	56	166
CMCH	Chattogram	Apr 2014	6,196	1032	17	755	273	4	0	395	0	0	359	41	212
MARMCH ²	Dinajpur	Apr 2014	4,104	672	16	450	222	0	0	268	0	0	179	28	173
			67,974	10,612	16	7,272	3,321	19	135	3,972	1	0	3,144	395	1,632

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

^γThree samples 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 (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.

^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.

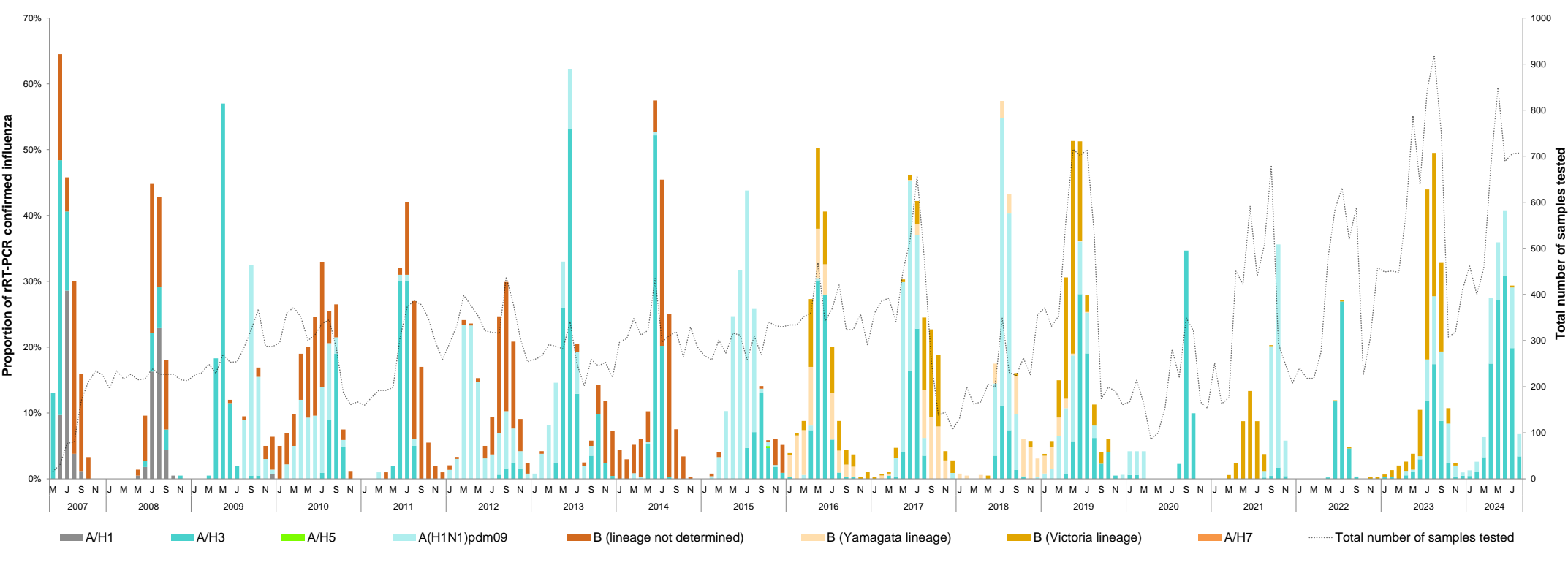
Outpatient ILI surveillance discontinued in October 2023.

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 - August 2024

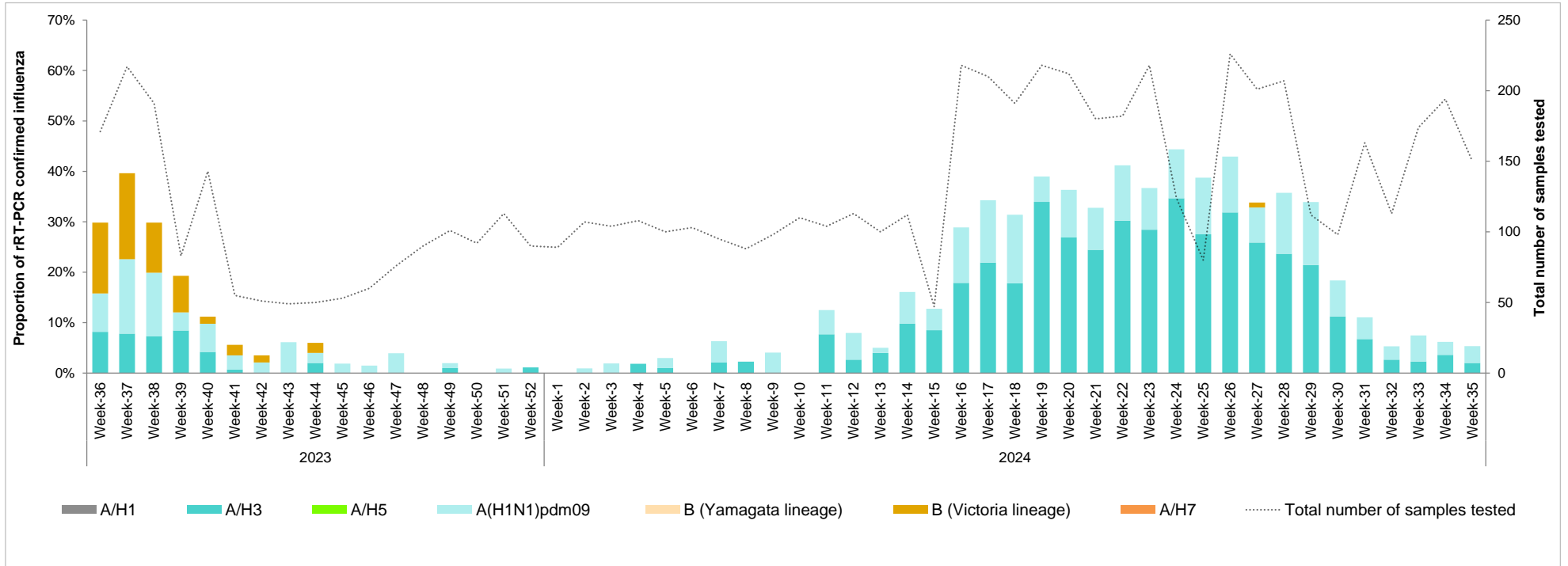


Note: Influenza B lineages initiated in January 2016

Hospital based influenza surveillance

Influenza seasonality graph

Week 36 of 2023 to week 35 of 2024



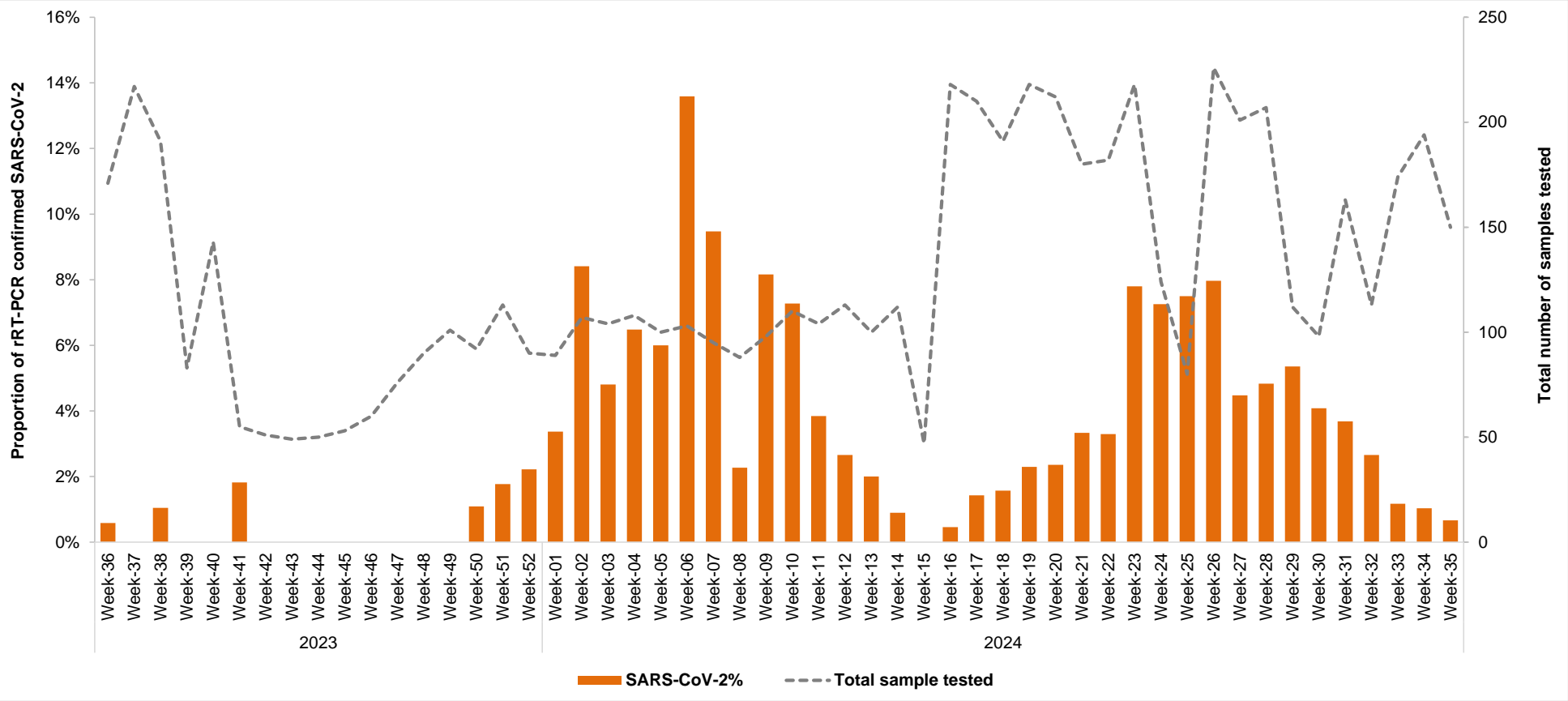
Hospital based influenza surveillance
Hospital-wise SARS-CoV-2 lab results
August 2024

Hospital	District	August 2024			March 2020 - August 2024		
		Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
JIMCH	Kishoregonj	116	1	1	3,260	168	5
RMCH	Rajshahi	50	0	0	2,062	149	7
CuMCH	Cumilla	58	0	0	2,065	136	7
KMCH	Khulna	34	1	3	1,731	218	13
JGH	Jashore	83	3	4	2,700	223	8
JRRMCH	Sylhet	93	0	0	2,620	192	7
SBMCH	Barishal	63	1	2	2,505	181	7
CMCH	Chattogram	126	0	0	3,655	278	8
MARMCH	Dinajpur	84	3	4	2,441	147	6
		707	9	1	23,039	1,692	7

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

Age groups	August 2024			March 2020 - August 2024		
	Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
<1 Year	167	1	1	5133	179	3
1-4 Years	134	2	1	3488	49	1
5-14 Years	82	0	0	3,012	69	2
15-24 Years	107	1	1	2,552	140	5
25-39 Years	79	1	1	2,585	303	12
40-59 Years	83	3	4	3,322	510	15
≥ 60 Years	55	1	2	2,947	442	15
	707	9	1	23,039	1,692	7

**Hospital based influenza surveillance
SARS-CoV-2 positivity trend by week
Week 36 of 2023 to week 35 of 2024**



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

