



Monthly summary report

Hospital-Based Human Influenza Surveillance in Bangladesh

October 2024

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
October 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	80	9	11	9	0	0	0	0	0	0	9	0	0
RMCH	Rajshahi	25	0	0	0	0	0	0	0	0	0	7	0	0
CuMCH	Cumilla	36	7	19	7	0	0	0	0	0	0	2	0	0
KMCH	Khulna	20	2	10	2	0	0	0	1	0	0	7	0	0
JGH	Jashore	70	8	11	8	0	0	0	0	0	0	5	0	0
JRRMCH	Sylhet	71	5	7	5	0	0	0	0	0	0	6	0	0
SBMCH	Barishal	34	6	18	6	0	0	0	0	0	0	14	0	0
CMCH	Chattogram	87	14	16	14	0	0	0	0	0	0	4	0	0
MARMCH	Dinajpur	63	4	6	4	0	0	0	0	0	0	0	0	0
		486	55	11	55	0	0	0	1	0	0	54	0	0

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
October 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	42	5	12	36	4	11	2	0	0
RMCH	Rajshahi	15	0	0	10	0	0	0	0	0
CuMCH	Cumilla	20	4	20	12	1	8	4	2	50
KMCH	Khulna	9	2	22	11	0	0	0	0	0
JGH	Jashore	41	6	15	29	2	7	0	0	0
JRRMCH	Sylhet	43	3	7	28	2	7	0	0	0
SBMCH	Barishal	22	5	23	12	1	8	0	0	0
CMCH	Chattogram	50	13	26	37	1	3	0	0	0
MARMCH	Dinajpur	34	3	9	29	1	3	0	0	0
		276	41	15	204	12	6	6	2	33

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	20	1	5	13	0	0	47	8	17
RMCH	Rajshahi	15	0	0	10	0	0	-	-	-
CuMCH	Cumilla	26	6	23	10	1	10	-	-	-
KMCH	Khulna	10	2	20	10	0	0	-	-	-
JGH	Jashore	10	1	10	10	1	10	50	6	12
JRRMCH	Sylhet	12	1	8	10	0	0	49	4	8
SBMCH	Barishal	24	6	25	10	0	0	-	-	-
CMCH	Chattogram	29	2	7	10	0	0	48	12	25
MARMCH	Dinajpur	13	1	8	10	0	0	40	3	8
		159	20	13	93	2	2	234	33	14

**Hospital based influenza surveillance
Influenza results by different age groups
October 2024**

Age groups	October 2024									Initiation—October 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	-	-	-	8	1	13	58	0	0	-	-	-	2,934	196	7	11,823	729	6
1-4 Years	-	-	-	32	5	16	35	2	6	-	-	-	4,980	725	15	5,422	828	15
5-14 Years	34	1	3	45	5	11	-	-	-	5,676	1216	21	3,234	743	23	-	-	-
15-24 Years	34	6	18	69	11	16	-	-	-	5,699	1307	23	3,321	639	19	-	-	-
25-39 Years	32	5	16	38	4	11	-	-	-	5,942	1158	19	2,700	439	16	-	-	-
40-59 Years	27	3	11	36	4	11	-	-	-	7,547	1211	16	1,819	263	14	-	-	-
≥ 60 Years	32	5	16	6	3	50	-	-	-	7,623	1189	16	619	69	11	-	-	-
	159	20	13	234	33	14	93	2	2	32,487	6,081	19	19,607	3,074	16	17,245	1,557	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—October 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	8,874	1,589	18	1081	507	1	9	594	0	0	476	64	273
RMCH	Rajshahi	May 2007	5,621	638	11	444	194	0	14	272	0	0	156	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	7,146	882	12	609	270	3	9	326	0	0	273	28	92
KMCH	Khulna	Jul 2007	4,782	677	14	486	190	1	16	265	0	0	200	17	112
JGH ^{γ†}	Jashore	Sep 2007	6,760	1418	21	966	449	3	10	541	0	0	415	26	285
JRRMCH	Sylhet	Jul 2007	6,625	1078	16	730	346	2	16	383	0	0	330	34	169
SBMCH	Barishal	Aug 2007	8,235	1167	14	792	371	4	7	411	0	0	370	56	166
CMCH	Chattogram	Apr 2014	6,432	1051	16	774	273	4	0	395	0	0	378	41	212
MARMCH ²	Dinajpur	Apr 2014	4,274	676	16	454	222	0	0	268	0	0	183	28	173
			69,339	10,712	15	7,372	3,321	19	135	3,985	1	0	3,231	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.

^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.

[†]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.

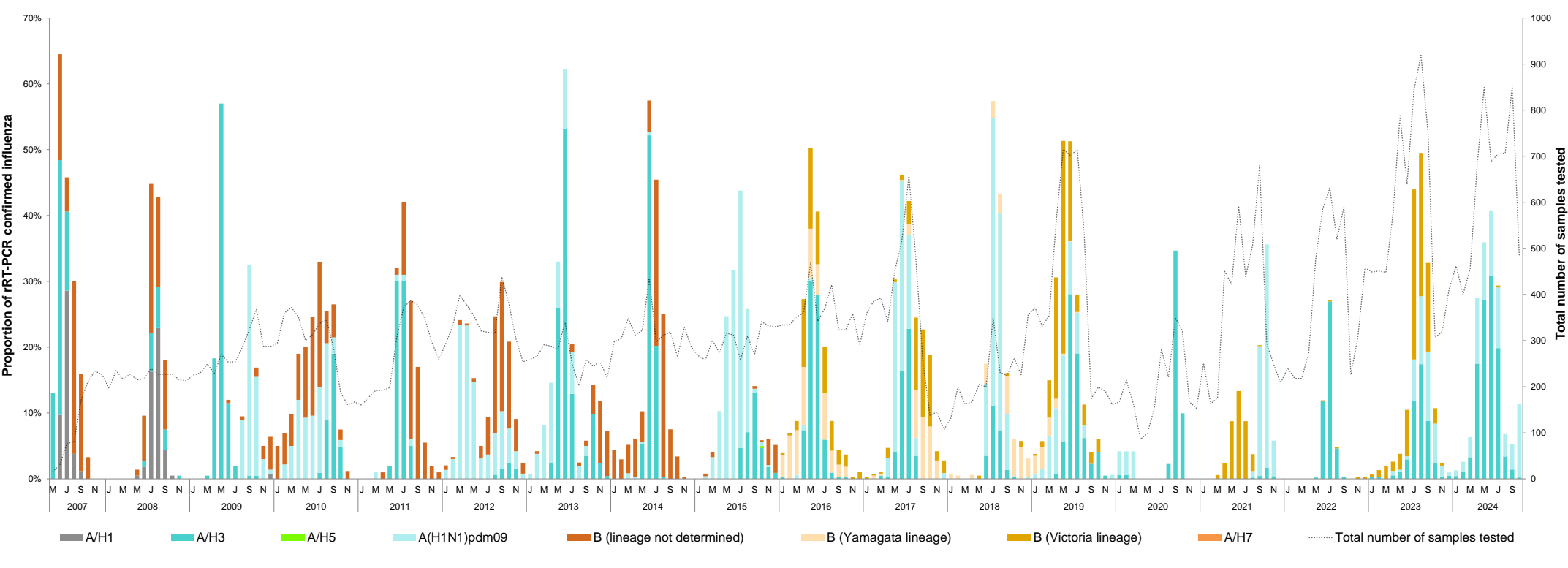
Outpatient ILI surveillance discontinued in October 2023.

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—October 2024

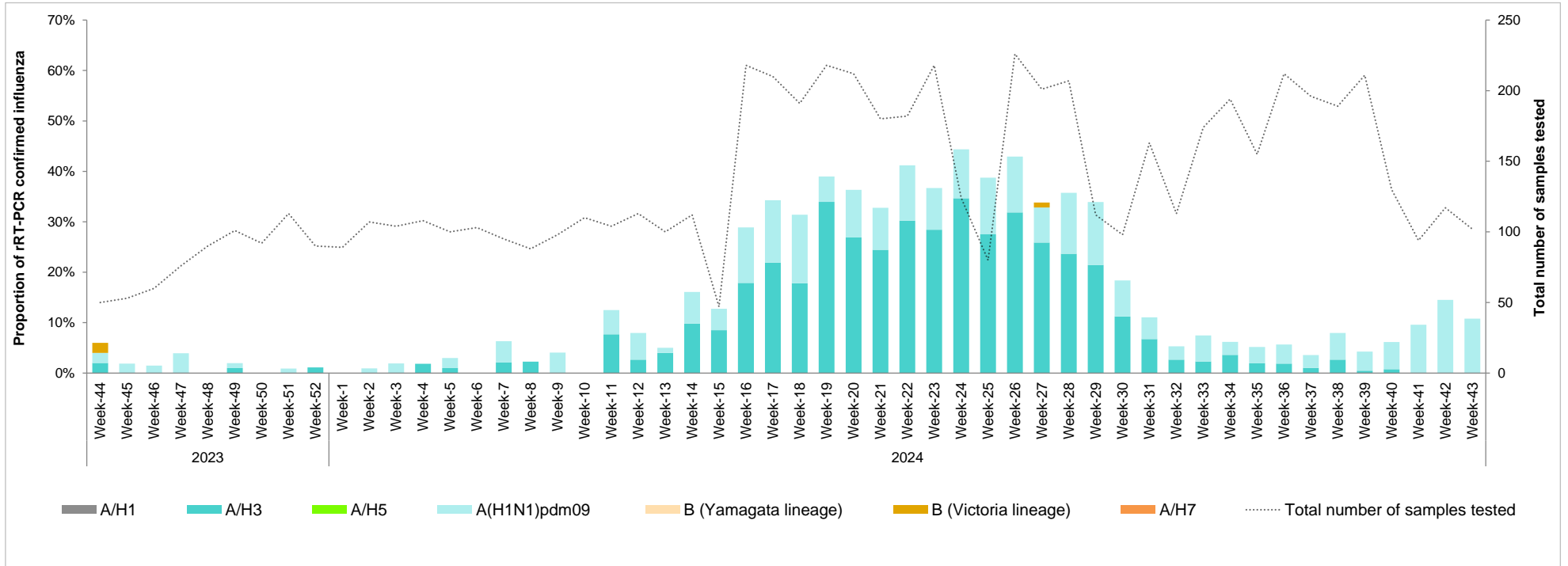


Note: Influenza B lineages initiated in January 2016

Hospital based influenza surveillance

Influenza seasonality graph

Week 44 of 2023 to week 43 of 2024



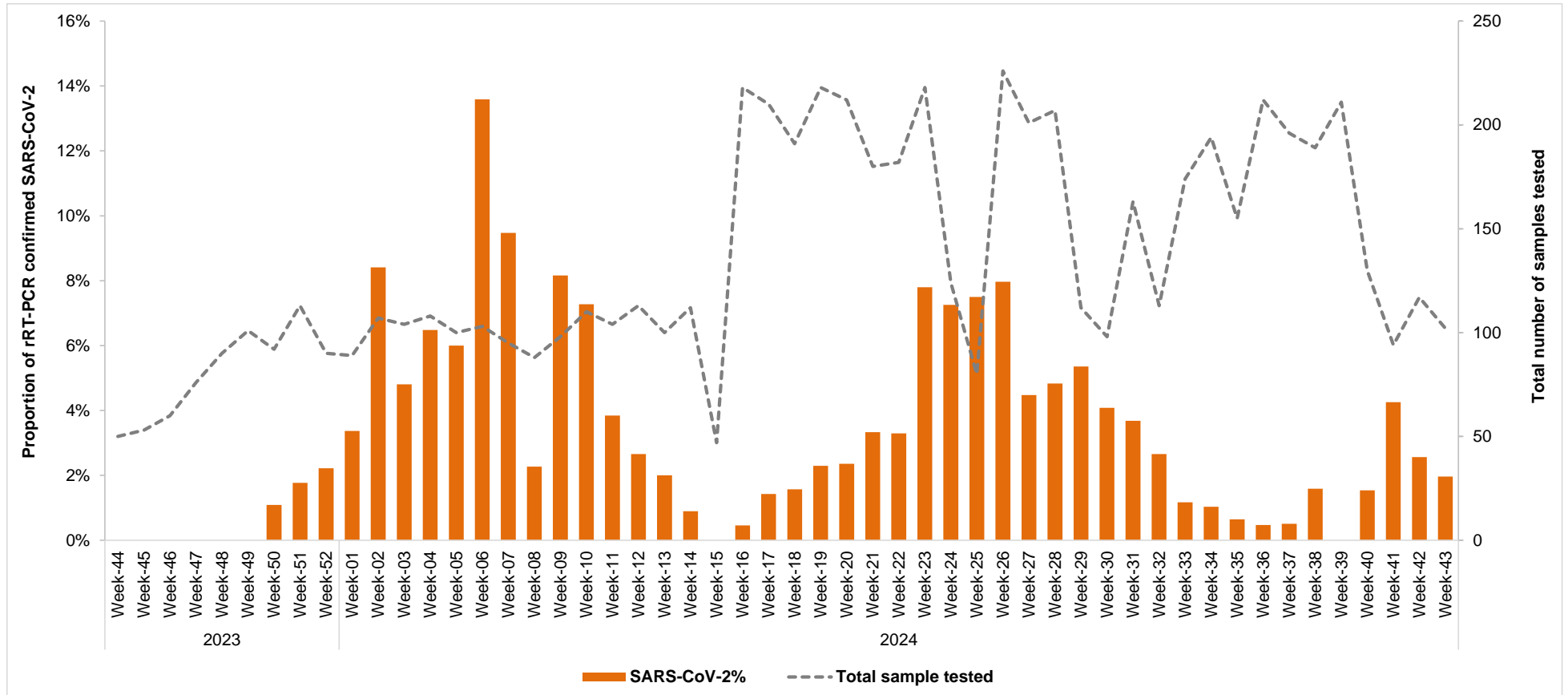
**Hospital based influenza surveillance
Hospital-wise SARS-CoV-2 lab results
October 2024**

Hospital	District	October 2024			March 2020—October 2024		
		Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
JIMCH	Kishoregonj	80	1	1	3,481	169	5
RMCH	Rajshahi	25	0	0	2,154	149	7
CuMCH	Cumilla	36	1	3	2,168	137	6
KMCH	Khulna	20	1	5	1,803	219	12
JGH	Jashore	70	2	3	2,876	227	8
JRRMCH	Sylhet	71	1	1	2,792	193	7
SBMCH	Barishal	34	1	3	2,628	183	7
CMCH	Chattogram	87	4	5	3,891	285	7
MARMCH	Dinajpur	63	2	3	2,611	152	6
		486	13	3	24,404	1,714	7

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

Age groups	October 2024			March 2020—October 2024		
	Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
<1 Year	66	1	2	5455	183	3
1-4 Years	67	0	0	3745	49	1
5-14 Years	79	0	0	3,190	69	2
15-24 Years	103	7	7	2,772	150	5
25-39 Years	70	1	1	2,744	306	11
40-59 Years	63	3	5	3,459	513	15
≥ 60 Years	38	1	3	3,039	444	15
	486	13	3	24,404	1,714	7

**Hospital based influenza surveillance
SARS-CoV-2 positivity trend by week
Week 44 of 2023 to week 43 of 2024**



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

