



Monthly summary report

Hospital-Based Human Influenza Surveillance in Bangladesh

June 2024

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
June 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	11	19	45	11	24	4	2	50
RMCH	Rajshahi	26	7	27	24	7	29	1	0	0
CuMCH	Cumilla	29	4	14	21	2	10	2	0	0
KMCH	Khulna	17	8	47	14	8	57	0	0	0
JGH	Jashore	65	43	66	39	27	69	0	0	0
JRRMCH	Sylhet	41	13	32	37	28	76	2	1	50
SBMCH	Barishal	23	10	43	33	11	33	0	0	0
CMCH	Chattogram	60	17	28	52	14	27	0	0	0
MARMCH	Dinajpur	45	22	49	51	34	67	1	1	100
		363	135	37	316	142	45	10	4	40

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
June 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	106	24	23	24	0	0	0	16	0	0	8	0	0
RMCH	Rajshahi	51	14	27	14	0	0	0	11	0	0	3	0	0
CuMCH	Cumilla	52	6	12	6	0	0	0	5	0	0	1	0	0
KMCH	Khulna	31	16	52	16	0	0	0	12	0	0	4	0	0
JGH	Jashore	104	70	67	70	0	0	0	48	0	0	22	0	0
JRRMCH	Sylhet	80	42	53	42	0	0	0	33	0	0	9	0	0
SBMCH	Barishal	56	21	38	21	0	0	0	18	0	0	3	0	0
CMCH	Chattogram	112	31	28	31	0	0	0	17	0	0	14	0	0
MARMCH	Dinajpur	97	57	59	57	0	0	0	53	0	0	4	0	0
		689	281	41	281	0	0	0	213	0	0	68	0	0

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	35	10	29	25	9	36	46	5	11
RMCH	Rajshahi	31	9	29	20	5	25	-	-	-
CuMCH	Cumilla	31	4	13	21	2	10	-	-	-
KMCH	Khulna	21	11	52	10	5	50	-	-	-
JGH	Jashore	40	30	75	20	14	70	44	26	59
JRRMCH	Sylhet	21	13	62	22	18	82	37	11	30
SBMCH	Barishal	28	11	39	28	10	36	-	-	-
CMCH	Chattogram	34	8	24	32	6	19	46	17	37
MARMCH	Dinajpur	26	14	54	28	19	68	43	24	56
		267	110	41	206	88	43	216	83	38

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

Age groups	June 2024									Initiation - June 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	-	-	-	4	0	0	110	35	32	-	-	-	2,889	195	7	11,257	704	6
1-4 Years	-	-	-	26	11	42	96	53	55	-	-	-	4,850	706	15	5,040	785	16
5-14 Years	48	23	48	40	20	50	-	-	-	5,476	1184	22	3,068	716	23	-	-	-
15-24 Years	56	19	34	78	30	38	-	-	-	5,498	1273	23	3,068	602	20	-	-	-
25-39 Years	47	17	36	32	15	47	-	-	-	5,787	1119	19	2,540	417	16	-	-	-
40-59 Years	63	25	40	28	6	21	-	-	-	7,360	1177	16	1,703	254	15	-	-	-
≥ 60 Years	53	26	49	8	1	13	-	-	-	7,447	1160	16	579	64	11	-	-	-
	267	110	41	216	83	38	206	88	43	31,568	5,913	19	18,697	2,954	16	16,297	1,489	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 - June 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	8,434	1,522	18	1014	507	1	9	570	0	0	433	64	273
RMCH	Rajshahi	May 2007	5,435	617	11	423	194	0	14	256	0	0	151	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	6,923	859	12	586	270	3	9	316	0	0	260	28	92
KMCH	Khulna	Jul 2007	4,643	656	14	465	190	1	16	252	0	0	193	17	112
JGH ^{γ†}	Jashore	Sep 2007	6,408	1337	21	885	449	3	10	491	0	0	384	26	285
JRRMCH	Sylhet	Jul 2007	6,271	1046	17	698	346	2	16	366	0	0	315	34	169
SBMCH	Barishal	Aug 2007	7,982	1141	14	766	371	4	7	403	0	0	352	56	166
CMCH	Chattogram	Apr 2014	5,946	1004	17	727	273	4	0	386	0	0	340	41	212
MARMCH ²	Dinajpur	Apr 2014	3,930	638	16	418	220	0	0	238	0	0	177	28	171
			66,562	10,356	16	7,018	3,319	19	135	3,808	1	0	3,055	395	1,630

^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.

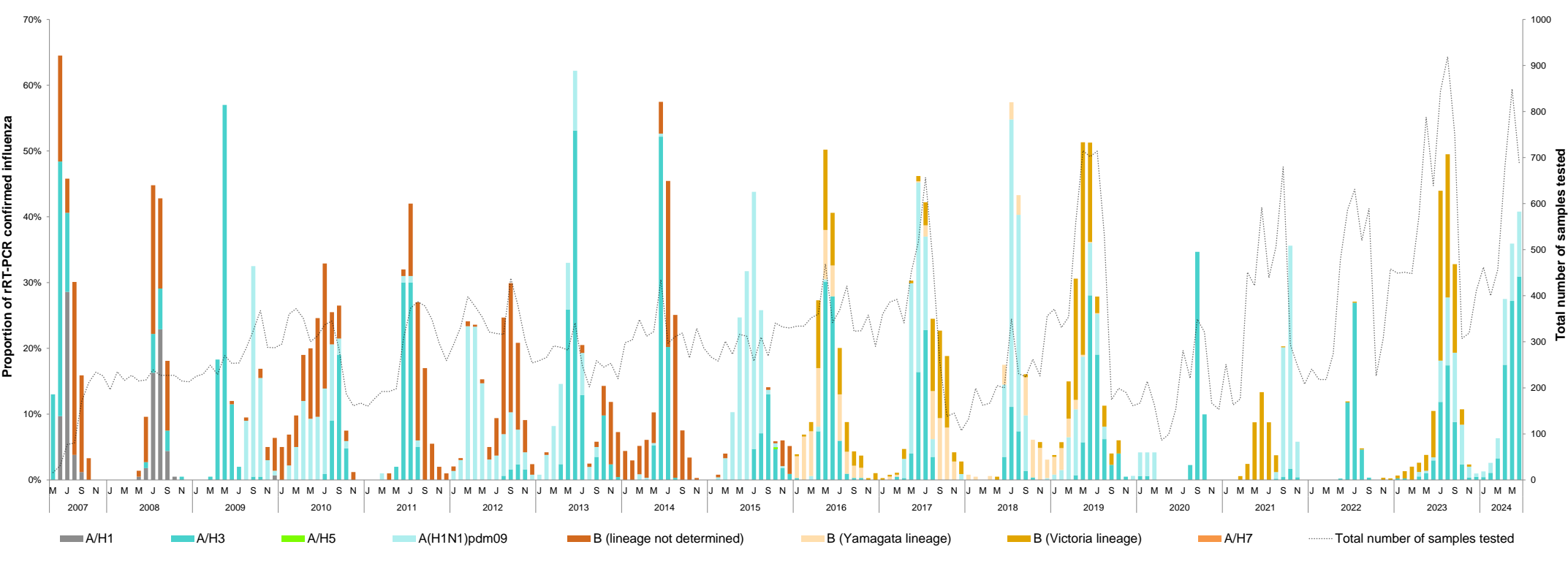
Outpatient ILI surveillance discontinued in October 2023.

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 - June 2024

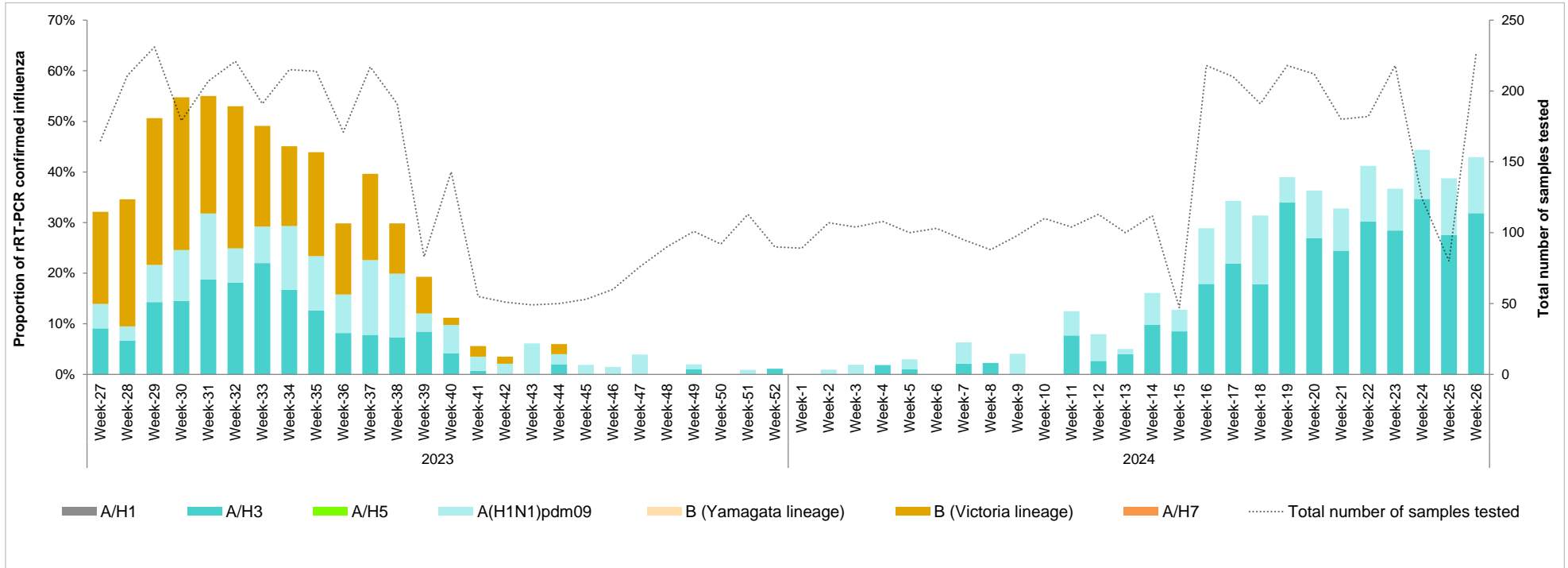


Note: Influenza B lineages initiated in January 2016

Hospital based influenza surveillance

Influenza seasonality graph

Week 27 of 2023 to week 26 of 2024



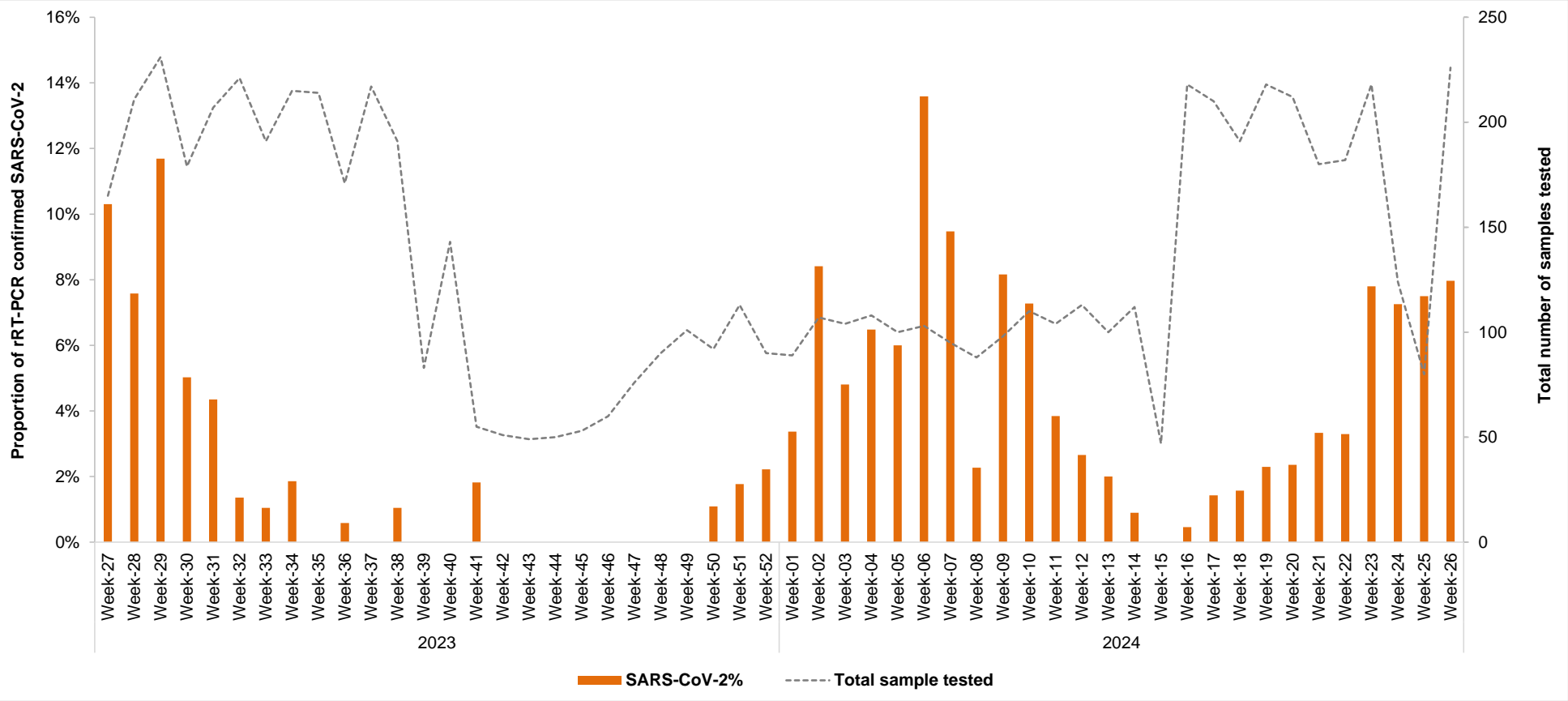
Hospital based influenza surveillance
Hospital-wise SARS-CoV-2 lab results
June 2024

Hospital	District	June 2024			March 2020 - June 2024		
		Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
JIMCH	Kishoregonj	106	17	16	3,041	161	5
RMCH	Rajshahi	51	1	2	1,968	146	7
CuMCH	Cumilla	52	4	8	1,945	134	7
KMCH	Khulna	31	2	6	1,664	212	13
JGH	Jashore	104	6	6	2,524	216	9
JRRMCH	Sylhet	80	3	4	2,438	188	8
SBMCH	Barishal	56	6	11	2,375	178	7
CMCH	Chattogram	112	6	5	3,405	277	8
MARMCH	Dinajpur	97	6	6	2,267	137	6
		689	51	7	21,627	1,649	8

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

Age groups	June 2024			March 2020 - June 2024		
	Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
<1 Year	114	9	8	4844	167	3
1-4 Years	122	6	5	3233	47	1
5-14 Years	88	3	3	2,824	64	2
15-24 Years	134	14	10	2,318	132	6
25-39 Years	79	2	3	2,429	299	12
40-59 Years	91	9	10	3,156	502	16
≥ 60 Years	61	8	13	2,823	438	16
	689	51	7	21,627	1,649	8

**Hospital based influenza surveillance
SARS-CoV-2 positivity trend by week
Week 27 of 2023 to week 26 of 2024**



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

