

Monthly summary report

Hospital-Based Human Influenza Surveillance in Bangladesh

December 2024

Hospital based influenza surveillance
Monthly hospital-wise influenza lab results
December 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	84	0	0	0	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	22	1	5	0	1	0	0	0	0	0	0	0	1
CuMCH	Cumilla	32	0	0	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	27	0	0	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	65	4	6	4	0	0	0	0	0	0	4	0	0
JRRMCH	Sylhet	64	0	0	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	29	1	3	1	0	0	0	0	0	0	1	0	0
CMCH	Chattogram	84	0	0	0	0	0	0	0	0	0	0	0	0
DjMCH	Dinajpur	67	3	4	3	0	0	0	0	0	0	3	0	0
		474	9	2	8	1	0	0	0	0	0	8	0	1

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
December 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	53	0	0	31	0	0	0	0	0
RMCH	Rajshahi	12	1	8	10	0	0	0	0	0
CuMCH	Cumilla	17	0	0	12	0	0	3	0	0
KMCH	Khulna	11	0	0	16	0	0	0	0	0
JGH	Jashore	35	1	3	30	3	10	0	0	0
JRRMCH	Sylhet	33	0	0	31	0	0	0	0	0
SBMCH	Barishal	19	0	0	10	1	10	0	0	0
CMCH	Chattogram	49	0	0	35	0	0	0	0	0
DJMCH	Dinajpur	37	1	3	29	2	7	1	0	0
		266	3	1	204	6	3	4	0	0

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	26	0	0	10	0	0	48	0	0
RMCH	Rajshahi	12	1	8	10	0	0	-	-	-
CuMCH	Cumilla	22	0	0	10	0	0	-	-	-
KMCH	Khulna	17	0	0	10	0	0	-	-	-
JGH	Jashore	10	1	10	10	1	10	45	2	4
JRRMCH	Sylhet	13	0	0	10	0	0	41	0	0
SBMCH	Barishal	20	1	5	9	0	0	-	-	-
CMCH	Chattogram	23	0	0	13	0	0	48	0	0
DjMCH	Dinajpur	15	1	7	8	1	13	44	1	2
		158	4	3	90	2	2	226	3	1

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

Age groups	December 2024									Initiation—December 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	49	2	4	-	-	-	2,949	196	7	11,929	732	6
1-4 Years	-	-	-	34	1	3	41	0	0	-	-	-	5,036	729	14	5,501	831	15
5-14 Years	38	3	8	46	0	0	-	-	-	5,753	1224	21	3,336	745	22	-	-	-
15-24 Years	20	0	0	50	1	2	-	-	-	5,746	1309	23	3,433	642	19	-	-	-
25-39 Years	25	0	0	46	0	0	-	-	-	6,000	1159	19	2,789	440	16	-	-	-
40-59 Years	25	1	4	35	1	3	-	-	-	7,608	1213	16	1,888	266	14	-	-	-
≥ 60 Years	50	0	0	8	0	0	-	-	-	7,697	1191	15	636	70	11	-	-	-
	158	4	3	226	3	1	90	2	2	32,804	6,096	19	20,067	3,088	15	17,430	1,563	9

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

**Hospital based influenza surveillance
Hospital-wise influenza lab results
Surveillance initiation—December 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	9,041	1,593	18	1084	508	1	9	594	0	0	479	64	274
RMCH	Rajshahi	May 2007	5,670	640	11	445	195	0	14	272	0	0	157	39	95
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	7,206	883	12	610	270	3	9	326	0	0	274	28	92
KMCH	Khulna	Jul 2007	4,833	680	14	489	190	1	16	266	0	0	202	17	112
JGH ^{γ†}	Jashore	Sep 2007	6,896	1426	21	974	449	3	10	541	0	0	423	26	285
JRRMCH	Sylhet	Jul 2007	6,755	1079	16	731	346	2	16	383	0	0	331	34	169
SBMCH	Barishal	Aug 2007	8,295	1170	14	795	371	4	7	411	0	0	373	56	166
CMCH	Chattogram	Apr 2014	6,603	1057	16	780	273	4	0	395	0	0	384	41	212
DjMCH ²	Dinajpur	Apr 2014	4,412	683	15	461	222	0	0	268	0	0	190	28	173
			70,301	10,747	15	7,405	3,323	19	135	3,986	1	0	3,263	395	1,634

^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.

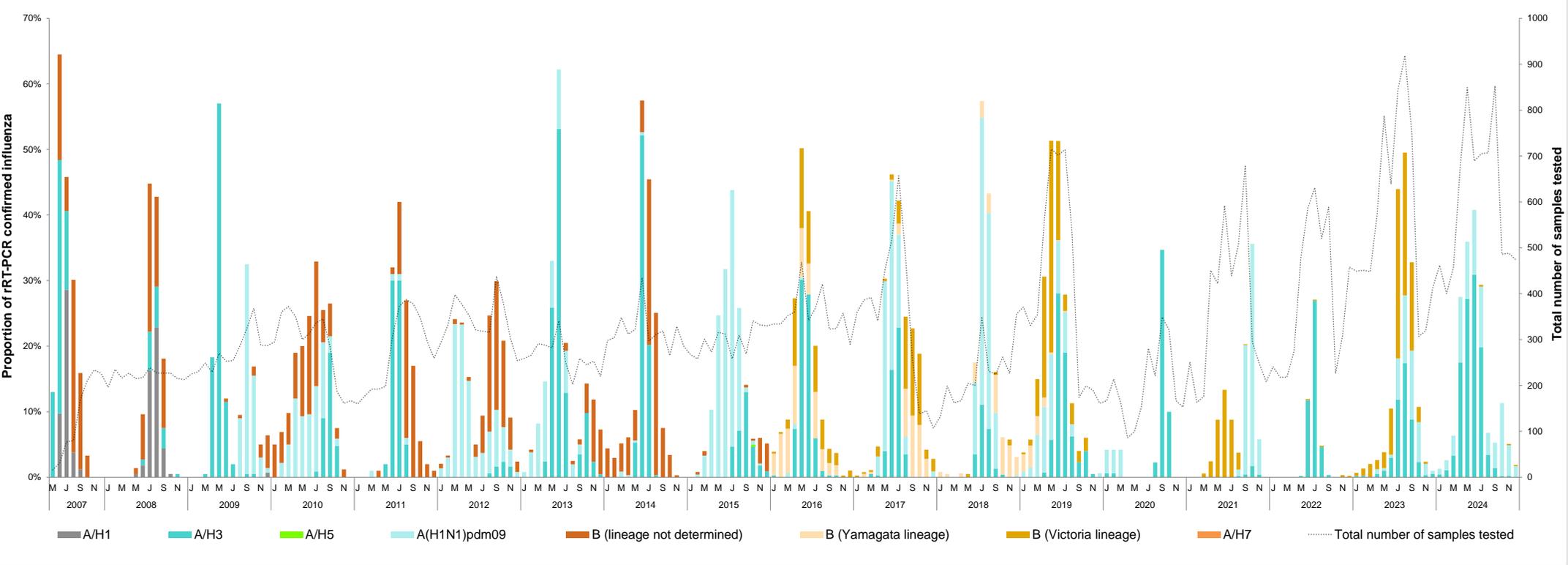
Outpatient ILI surveillance discontinued in October 2023.

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—December 2024

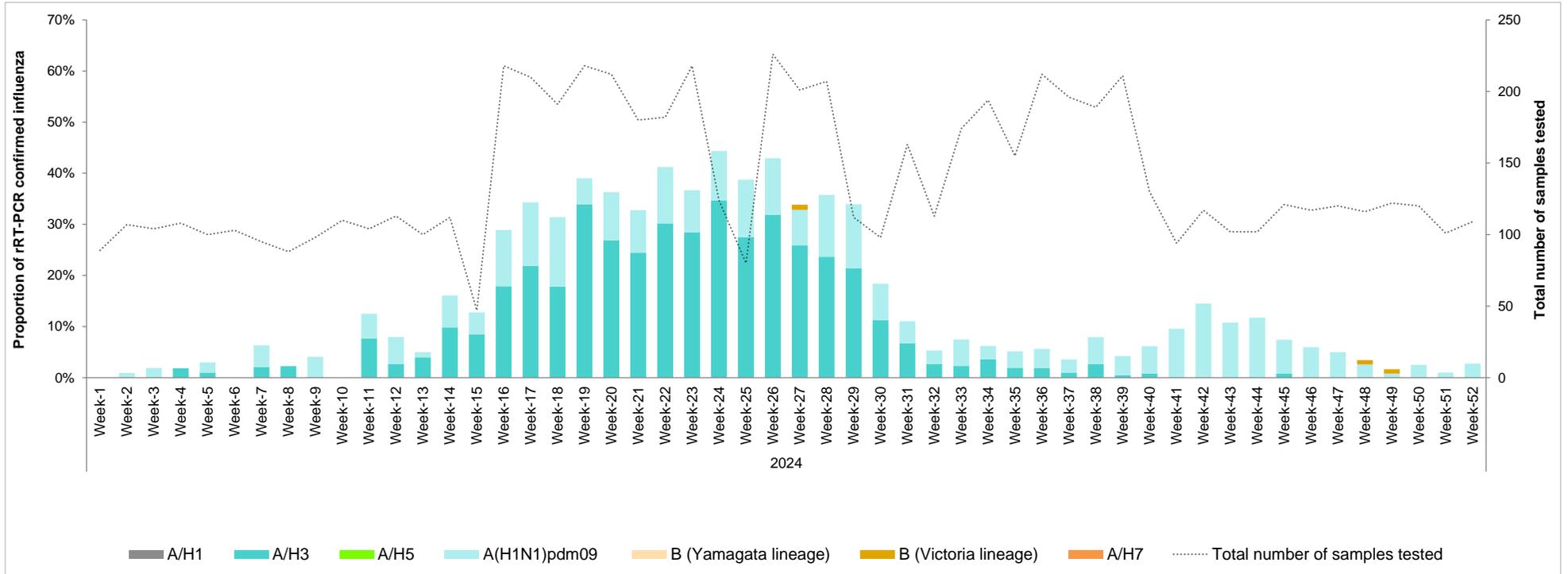


Note: Influenza B lineages initiated in January 2016

Hospital based influenza surveillance

Influenza seasonality graph

Week 01 to 52 of 2024



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

Hospital	District	December 2024			March 2020—December 2024		
		Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
JIMCH	Kishoregonj	84	0	0	3,648	172	5
RMCH	Rajshahi	22	0	0	2,203	149	7
CuMCH	Cumilla	32	1	3	2,228	138	6
KMCH	Khulna	27	0	0	1,854	219	12
JGH	Jashore	65	0	0	3,012	228	8
JRRMCH	Sylhet	64	0	0	2,922	193	7
SBMCH	Barishal	29	1	3	2,688	186	7
CMCH	Chattogram	84	0	0	4,062	285	7
DjMCH	Dinajpur	67	0	0	2,749	153	6
		474	2	0	25,366	1,723	7

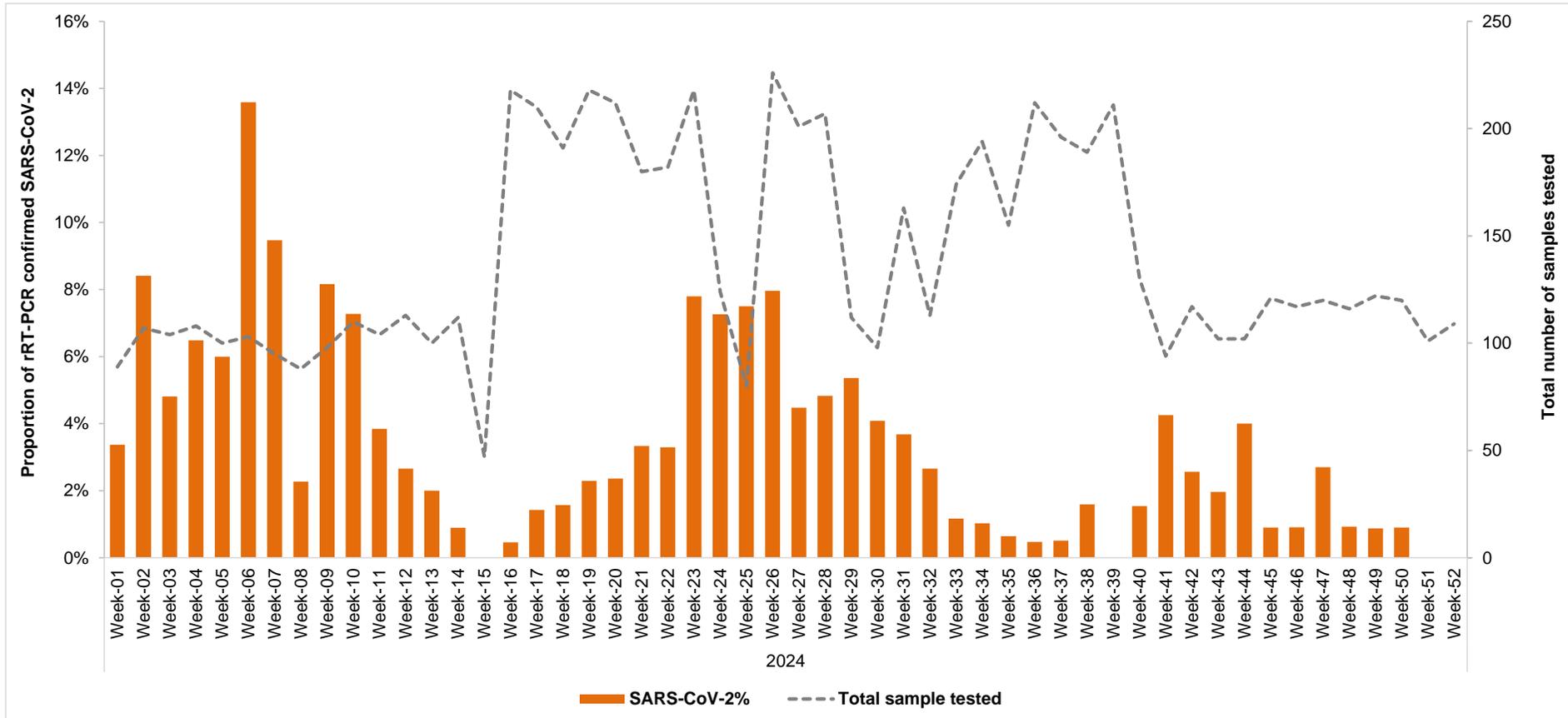
**Hospital based influenza surveillance
SARS-CoV-2 results by different age groups
December 2024**

Age groups	December 2024			March 2020—December 2024		
	Sample	SARS-CoV-2	SARS-CoV-2 %	Sample	SARS-CoV-2	SARS-CoV-2 %
<1 Year	56	2	4	5576	185	3
1-4 Years	75	0	0	3880	50	1
5-14 Years	84	0	0	3,369	70	2
15-24 Years	70	0	0	2,931	150	5
25-39 Years	71	0	0	2,891	309	11
40-59 Years	60	0	0	3,589	513	14
≥ 60 Years	58	0	0	3,130	446	14
	474	2	0	25,366	1,723	7

Hospital based influenza surveillance

SARS-CoV-2 positivity trend by week

Week 01 to 52 of 2024



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

