Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

January 2023

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
January 2023

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	45	0	0	29	1	3	1	0	0
RMCH	Rajshahi	12	0	0	10	0	0	1	0	0
CuMCH	Cumilla	18	0	0	15	1	7	1	0	0
KMCH	Khulna	3	0	0	10	0	0	0	0	0
JGH	Jashore	37	0	0	31	0	0	1	0	0
JRRMCH	Sylhet	37	0	0	26	0	0	1	0	0
SBMCH	Barishal	11	0	0	19	0	0	1	0	0
CMCH	Chattogram	45	1	2	28	0	0	1	0	0
MARMCH	Dinajpur	31	0	0	32	0	0	1	0	0
		239	**1**	**0.4**	**200**	**2**	**1.0**	**8**	**0**	**0**

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
January 2023

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	75	1	1	0	1	0	0	0	0	0	0	0	1
RMCH	Rajshahi	23	0	0	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	34	1	3	0	1	0	0	0	0	0	0	0	1
KMCH	Khulna	13	0	0	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	69	0	0	0	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	64	0	0	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	31	0	0	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	74	1	1	1	0	0	0	1	0	0	0	0	0
MARMCH	Dinajpur	64	0	0	0	0	0	0	0	0	0	0	0	0
		447	**3**	**1**	**1**	**2**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**2**

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
January 2023

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI[‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	18	0	0	8	0	0	49	1	2
RMCH	Rajshahi	14	0	0	9	0	0	-	-	-
CuMCH	Cumilla	25	0	0	9	1	11	-	-	-
KMCH	Khulna	4	0	0	9	0	0	-	-	-
JGH	Jashore	12	0	0	8	0	0	49	0	0
JRRMCH	Sylhet	12	0	0	9	0	0	43	0	0
SBMCH	Barishal	22	0	0	9	0	0	-	-	-
CMCH	Chattogram	26	1	4	10	0	0	38	0	0
MARMCH	Dinajpur	10	0	0	8	0	0	46	0	0
		143	**1**	**3.8**	**79**	**1**	**1.3**	**225**	**1**	**0.4**

[‡]Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022 and JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

Hospital based influenza surveillance
Influenza results by different age groups
January 2023

Age groups	January 2023									Initiation - January 2023								
	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	-	-	-	19	0	0	59	0	0	-	-	-	2,724	189	7	9,530	505	5
1-4 Years	-	-	-	32	0	0	20	1	5	-	-	-	4,326	601	14	3,980	509	13
5-14 Years	39	0	0	41	1	2	-	-	-	4,469	907	20	2,406	548	23	-	-	-
15-24 Years	21	0	0	50	0	0	-	-	-	4,772	1,071	22	2,252	414	18	-	-	-
25-39 Years	15	0	0	35	0	0	-	-	-	5,138	957	19	1,989	299	15	-	-	-
40-59 Years	27	0	0	31	0	0	-	-	-	6,521	1,016	16	1,310	201	15	-	-	-
≥ 60 Years	41	1	2	17	0	0	-	-	-	6,706	1,020	15	431	46	11	-	-	-
	143	**1**	**0.7**	**225**	**1**	**0.4**	**79**	**1**	**1.3**	**27,606**	**4,971**	**18**	**15,438**	**2,298**	**15**	**13,510**	**1,014**	**8**

‡ Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022 and JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - January 2023

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A$^\Psi$	Flu B$^\Lambda$	Flu A+B$^\mathrm{Ŧ}$	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$^\mathrm{Y}$	Dhaka	Jun 2007	2,061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH$^\mathrm{Y}$	Mymensingh	Oct 2007	2,053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	6,866	1,226	18	831$^\mathrm{i}$	395	0	9	444	0	0	376	64	161
RMCH	Rajshahi	May 2007	4,750	540	11	362$^\mathrm{i}$	178	0	14	207	0	0	139	39	78
SZRMCH$^\mathrm{Y}$	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$^\mathrm{T}$	Cumilla	Oct 2007	6,185	724	12	489*	232	3	9	257	0	0	222	28	54
KMCH	Khulna	Jul 2007	4,056	518	13	371*$^\mathrm{i}$	147	0	16	188	0	0	163	17	69
JGH$^\mathrm{YI}$	Jashore	Sep 2007	5,016	937	19	605	331	1	10	322	0	0	273	26	167
JRRMCH	Sylhet	Jul 2007	5,037	770	15	498$^\mathrm{i}$	271	1	16	254	0	0	227	34	94
SBMCH	Barishal	Aug 2007	7,070	974	14	636$^\mathrm{i}$	334	4	9	312	0	0	313	56	129
CMCH	Chattogram	Apr 2014	4,231	650	15	466	181	3	0	198	0	0	268	41	120
MARMCH$^\mathrm{ɔ}$	Dinajpur	Apr 2014	2,753	408	15	270$^\mathrm{i}$	138	0	0	145	0	0	122	28	89
			56,554	8,283	15	5,564	2,706	13	137	2,857	1	0	2,553	395	1,017

$^\Lambda$Influenza B typing initiated in January 2016.

$^\Psi$rRT-PCR result of four samples were equivocal positive for Influenza A.

$^\Psi$One sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

$^\Lambda$Three samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage), another ten samples were unsubtypeable.

$^\mathrm{Ŧ}$Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

$^\mathrm{i}$One sample collected in May 2019 was co-infected with both Influenza A(H3) and Influenza B (Victoria lineage).

†Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

$^\mathrm{Y}$Surveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

$^\mathrm{T}$Surveillance activities reinitiated at Cumilla Medical College Hospital (CuMCH), Cumilla in January 2018.

$^\mathrm{I}$Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

$^\mathrm{ɔ}$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.

$^\varphi$ 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.

$^\mathrm{i}$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.
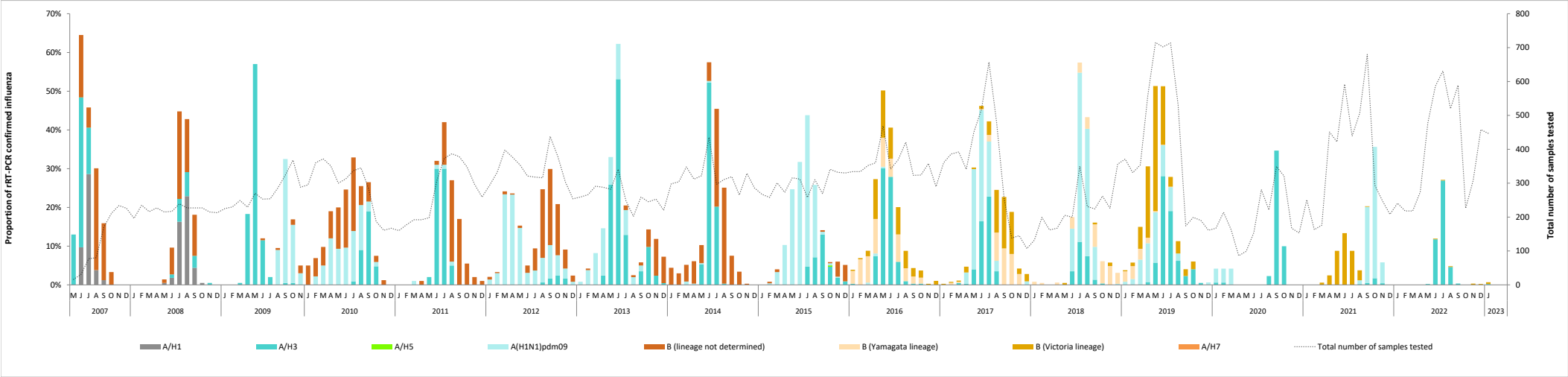
Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022.

Outpatient ILI surveillance reinitiated at JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - January 2023

Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 05 of 2022 to week 04 of 2023