





Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

April 2021

Hospital based influenza surveillance Monthly enrollment by different wards (Medicine, Pediatrics and CCU) April 2021

Hospital	District	I	ledicine war	b	Pediatric	s ward (≤12 ye	ears of age)	Coronary Care Unit (CCU)			
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	
JIMCH	Kishoregonj	26	2	8%	25	1	4%	4	0	0%	
RMCH	Rajshahi	19	0	0%	24	1	4%	0	0	0%	
CuMCH	Cumilla	33	2	6%	17	1	6%	1	0	0%	
КМСН	Khulna	30	0	0%	15	0	0%	0	0	0%	
JGH	Jashore	24	0	0%	18	1	6%	0	0	0%	
JRRMCH	Sylhet	14	1	7%	27	1	4%	1	0	0%	
SBMCH	Barishal	26	0	0%	34	0	0%	0	0	0%	
СМСН	Chattogram	63	1	2%	10	0	0%	0	0	0%	
MARMCH	Dinajpur	21	0	0%	19	0	0%	0	0	0%	
		256	6	2%	189	5	3%	6	0	0%	

Hospital based influenza surveillance Monthly hospitalwise influenza lab results April 2021

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	55	3	5%	0	3	0	0	0	0	0	0	0	3
RMCH	Rajshahi	43	1	2%	0	1	0	0	0	0	0	0	0	1
CuMCH	Cumilla	51	3	6%	0	3	0	0	0	0	0	0	0	3
КМСН	Khulna	45	0	0%	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	42	1	2%	0	1	0	0	0	0	0	0	0	1
JRRMCH	Sylhet	42	2	5%	0	2	0	0	0	0	0	0	0	2
SBMCH	Barishal	60	0	0%	0	0	0	0	0	0	0	0	0	0
СМСН	Chattogram	73	1	1%	0	1	0	0	0	0	0	0	0	1
MARMCH	Dinajpur	40	0	0%	0	0	0	0	0	0	0	0	0	0
		451	11	2%	0	11	0	0	0	0	0	0	0	11

Hospital based influenza surveillance Monthly enrollment by different surveillance groups April 2021

Hospital	District	SA	ARI (aged ≥ 5 year	rs)	SA	SARI (aged < 5 years)						
	District	Sample	Flu	Flu %	Sample	Flu	Flu %					
JIMCH	Kishoregonj	31	2	6%	24	1	4%					
RMCH	Rajshahi	19	0	0%	24	1	4%					
CuMCH	Cumilla	40	3	8%	11	0	0%					
КМСН	Khulna	30	0	0%	15	0	0%					
JGH	Jashore	25	1	4%	17	0	0%					
JRRMCH	Sylhet	17	1	6%	25	1	4%					
SBMCH	Barishal	29	0	0%	31	0	0%					
СМСН	Chattogram	63	1	2%	10	0	0%					
MARMCH	Dinajpur	26	0	0%	14	0	0%					
		280	8	3%	171	3	2%					

Hospital based influenza surveillance Influenza results by different age groups April 2021

	April 2021							Initiation - April 2021									
Age groups	SARI (aged ≥ 5 years)			SARI (a	aged < 5	years)	SARI (aged ≥ 5	years)		ILI [‡]		SARI (years)			
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %		
<1 Year	-	-	-	124	1	1%	-	-	-	2665	189	7%	7,345	425	6%		
1-4 Years	-	-	-	47	2	4%	-	-	-	4217	601	14%	2,784	398	14%		
5-14 Years	21	2	10%	-	-	-	3638	812	22%	2317	547	24%	-	-	-		
15-24 Years	15	3	20%	-	-	-	4244	985	23%	2167	413	19%	-	-	-		
25-39 Years	55	3	5%	-	-	-	4339	862	20%	1916	299	16%	-	-	-		
40-59 Years	97	0	0%	-	-	-	5317	917	17%	1245	201	16%	-	-	-		
≥ 60 Years	92	0	0%	-	-	-	5371	895	17%	400	46	12%	-	-	-		
	280	8	3%	171	3	2%	22,909	4,471	20%	14,927	2,296	15%	10,129	823	8%		

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance Hospitalwise influenza lab results Surveillance initiation - April 2021

Hospital	District	Initiation	Sample	Flu	Flu %	Flu Α ^ψ	Flu B ^x	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 ^Y	Dhaka	Jun 2007	2061	312	15%	201	111	0	15	84	0	0	102	13	7
CBMCH ^Ÿ	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	5757	1115	19%	765 ^î	350	0	9	408	0	0	346	64	116
RMCH	Rajshahi	May 2007	3853	498	13%	331 [°]	167	0	14	193	0	0	122	39	67
SZRMCH ^Y	Bogura	Sep 2007	3865	653	17%	439	213	1	12	256	0	0	170	29	39
LAMB [†]	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	0	24	1	0
BBMH [†]	Chattogram	Aug 2007	1440	157	11%	118	39	0	13	42	0	0	63	3	0
CuMCH [⊤]	Cumilla	Oct 2007	5257	651	12%	429*	219	3	9	228	0	0	191	28	41
КМСН	Khulna	Jul 2007	3324	462	14%	325* ^ï	137	0	16	162	0	0	143	17	59
JGH ^{YT}	Jashore	Sep 2007	4161	844	20%	535	308	1	10	274	0	0	251	26	144
JRRMCH	Sylhet	Jul 2007	4138	699	17%	442 ^ï	256	1	16	222	0	0	203	34	79
SBMCH	Barishal	Aug 2007	5996	896	15%	576 ^î	316	4	9	293	0	0	272	56	111
СМСН	Chattogram	Apr 2014	2975	522	18%	363	156	3	0	148	0	0	215	41	95
MARMCH ²	Dinajpur	Apr 2014	1914	367	19%	234 ^î	133	0	0	122	0	0	109	28	84
			47,965	7,590	16%	5,036	2,541	13	137	2,580	1	0	2,302	395	852

¹Influenza 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.

¹Three 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).

ⁱOne 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.

^ŶSurveillance 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.

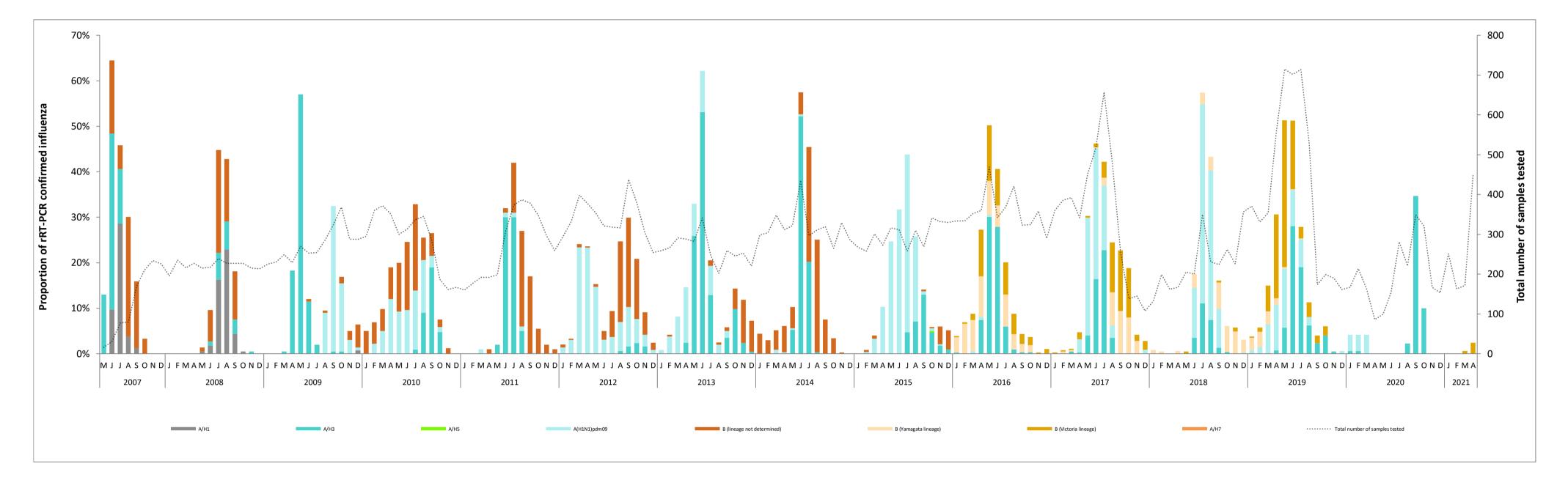
²Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH).

Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

*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.

^îNine 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.

Hospital based influenza surveillance Influenza seasonality graph May 2007 - April 2021



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance Influenza seasonality graph Week 18 of 2020 to week 17 of 2021

