



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

September 2019

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
September 2019

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	10	0	0%	10	1	10%	2	0	0%
RMCH	Rajshahi	16	2	13%	5	1	20%	2	0	0%
CuMCH	Cumilla	11	0	0%	7	0	0%	2	0	0%
KMCH	Khulna	12	0	0%	6	0	0%	1	0	0%
JGH	Jashore	12	2	17%	6	0	0%	1	0	0%
JRRMCH	Sylhet	4	0	0%	7	0	0%	1	0	0%
SBMCH	Barishal	11	0	0%	8	0	0%	2	0	0%
CMCH	Chattogram	11	1	9%	7	0	0%	4	0	0%
MARMCH	Dinajpur	8	0	0%	6	0	0%	2	0	0%
		95	5	5%	62	2	3%	17	0	0%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
September 2019

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	22	1	5%	0	1	0	0	0	0	0	0	0	1
RMCH	Rajshahi	23	3	13%	2	1	0	0	2	0	0	0	0	1
CuMCH	Cumilla	20	0	0%	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	19	0	0%	0	0	0	0	0	0	0	0	0	0
JGH	Jashore	19	2	11%	2	0	0	0	2	0	0	0	0	0
JRRMCH	Sylhet	12	0	0%	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	21	0	0%	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	22	1	5%	0	1	0	0	0	0	0	0	0	1
MARMCH	Dinajpur	16	0	0%	0	0	0	0	0	0	0	0	0	0
		174	7	4%	4	3	0	0	4	0	0	0	0	3

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
September 2019

Hospital	District	SARI (aged \geq 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	17	1	6%	5	0	0%
RMCH	Rajshahi	18	2	11%	5	1	20%
CuMCH	Cumilla	15	0	0%	5	0	0%
KMCH	Khulna	14	0	0%	5	0	0%
JGH	Jashore	14	2	14%	5	0	0%
JRRMCH	Sylhet	7	0	0%	5	0	0%
SBMCH	Barishal	16	0	0%	5	0	0%
CMCH	Chattogram	17	1	6%	5	0	0%
MARMCH	Dinajpur	11	0	0%	5	0	0%
		129	6	5%	45	1	2%

Hospital based influenza surveillance
Influenza results by different age groups
September 2019

Age groups	September 2019						Initiation - September 2019								
	SARI (aged ≥ 5 years)			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 %
<1 Year	-	-	-	30	1	3%	-	-	-	2665	189	7%	6,489	382	6%
1-4 Years	-	-	-	15	0	0%	-	-	-	4217	601	14%	2,353	360	15%
5-14 Years	19	1	5%	-	-	-	3293	785	24%	2317	547	24%	-	-	-
15-24 Years	35	2	6%	-	-	-	3976	962	24%	2167	413	19%	-	-	-
25-39 Years	34	1	3%	-	-	-	3856	822	21%	1916	299	16%	-	-	-
40-59 Years	20	1	5%	-	-	-	4496	878	20%	1245	201	16%	-	-	-
≥ 60 Years	21	1	5%	-	-	-	4614	868	19%	400	46	12%	-	-	-
	129	6	5%	45	1	2%	20,235	4,315	21%	14,927	2,296	15%	8,842	742	8%

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation -September 2019

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A ^ψ	Flu B ^λ	Flu A+B ^τ	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	2061	312	15%	201	111	0	15	84	0	0	102	13	7
CBMCH ^γ	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	5292	1082	20%	736	346	0	9	386	0	0	340	64	112
RMCH	Rajshahi	May 2007	3360	476	14%	312	164	0	14	176	0	0	122	39	64
SZRMCH ^γ	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	4872	628	13%	411	214	3	9	218	0	0	184	28	36
KMCH	Khulna	Jul 2007	2868	448	16%	311	137	0	16	153	0	0	142	17	59
JGH ^{γ†}	Jashore	Sep 2007	3804	818	22%	510	307	1	10	255	0	0	245	26	143
JRRMCH	Sylhet	Jul 2007	3729	667	18%	412	254	1	16	198	0	0	198	34	77
SBMCH	Barishal	Aug 2007	5481	853	16%	533	316	4	9	256	0	0	268	56	111
CMCH	Chattogram	Apr 2014	2427	491	20%	333	155	3	0	128	0	0	205	41	94
MARMCH [‡]	Dinajpur	Apr 2014	1581	354	22%	221	133	0	0	111	0	0	108	28	84
			44,004	7,353	17%	4,815	2,525	13	137	2,411	1	0	2,262	395	836

^λInfluenza B typing initiated in January 2016.

^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

^γOne sample collected in June 2013 and another sample collected in June 2017 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.

^τThree samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

^γOne 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.

^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.

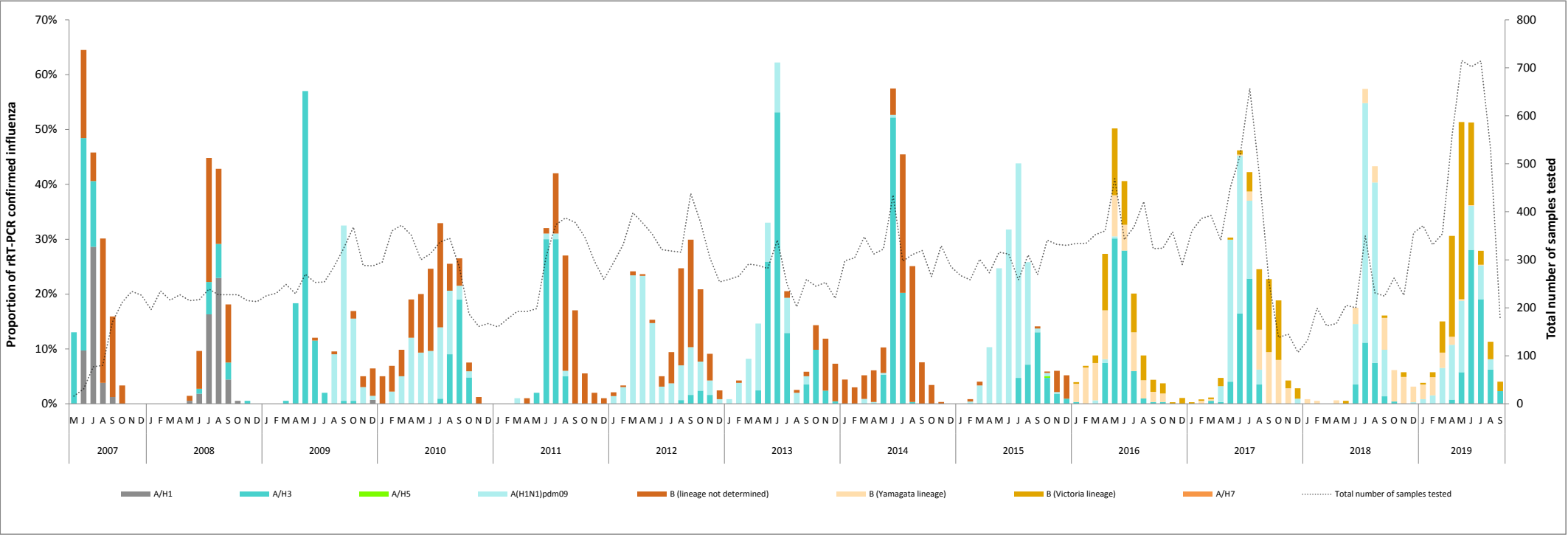
[†]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

[‡]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.

[¶]Intensive care units (ICU) surveillance discontinued in January 2019.

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - September 2019



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 40 of 2018 to week 39 of 2019

