



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

August 2019

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
August 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	23	1	4%	51	2	4%	5	0	0%
RMCH	Rajshahi	30	4	13%	39	4	10%	1	0	0%
CuMCH	Cumilla	20	2	10%	26	2	8%	4	0	0%
KMCH	Khulna	28	7	25%	16	3	19%	1	0	0%
JGH	Jashore	28	12	43%	21	4	19%	3	0	0%
JRRMCH	Sylhet	15	1	7%	25	1	4%	2	0	0%
SBMCH	Barishal	28	1	4%	37	2	5%	2	1	50%
CMCH	Chattogram	21	0	0%	46	0	0%	8	0	0%
MARMCH	Dinajpur	17	5	29%	31	8	26%	3	0	0%
		210	33	16%	292	26	9%	29	1	3%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
August 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	79	3	4%	0	3	0	0	0	0	0	0	0	3
RMCH	Rajshahi	70	8	11%	6	2	0	0	5	0	0	1	0	2
CuMCH	Cumilla	50	4	8%	2	2	0	0	2	0	0	0	0	2
KMCH	Khulna	45	10	22%	7	3	0	0	7	0	0	0	0	3
JGH	Jashore	52	16	31%	13	3	0	0	12	0	0	1	0	3
JRRMCH	Sylhet	42	2	5%	1	1	0	0	0	0	0	1	0	1
SBMCH	Barishal	67	4	6%	4	0	0	0	2	0	0	2	0	0
CMCH	Chattogram	75	0	0%	0	0	0	0	0	0	0	0	0	0
MARMCH	Dinajpur	51	13	25%	10	3	0	0	5	0	0	5	0	3
		531	60	11%	43	17	0	0	33	0	0	10	0	17

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

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	37	2	5%	42	1	2%
RMCH	Rajshahi	32	4	13%	38	4	11%
CuMCH	Cumilla	27	2	7%	23	2	9%
KMCH	Khulna	31	8	26%	14	2	14%
JGH	Jashore	35	13	37%	17	3	18%
JRRMCH	Sylhet	19	2	11%	23	0	0%
SBMCH	Barishal	34	3	9%	33	1	3%
CMCH	Chattogram	38	0	0%	37	0	0%
MARMCH	Dinajpur	27	9	33%	24	4	17%
		280	43	15%	251	17	7%

**Hospital based influenza surveillance
Influenza results by different age groups
August 2019**

Age groups	August 2019						Initiation - August 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	-	-	-	179	9	5%	-	-	-	2665	189	7%	6,459	381	6%
1-4 Years	-	-	-	72	8	11%	-	-	-	4217	601	14%	2,338	360	15%
5-14 Years	50	10	20%	-	-	-	3274	784	24%	2317	547	24%	-	-	-
15-24 Years	70	10	14%	-	-	-	3941	960	24%	2167	413	19%	-	-	-
25-39 Years	56	7	13%	-	-	-	3822	821	21%	1916	299	16%	-	-	-
40-59 Years	71	13	18%	-	-	-	4476	877	20%	1245	201	16%	-	-	-
≥ 60 Years	33	3	9%	-	-	-	4593	867	19%	400	46	12%	-	-	-
	280	43	15%	251	17	7%	20,106	4,309	21%	14,927	2,296	15%	8,797	741	8%

[‡]Outpatient ILI surveillance discontinued in October 2017.

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

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	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	5270	1081	21%	736	345	0	9	386	0	0	340	64	111
RMCH	Rajshahi	May 2007	3337	473	14%	310	163	0	14	174	0	0	122	39	63
SZRMCH ^γ	Bogra	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	4852	628	13%	411	214	3	9	218	0	0	184	28	36
KMCH	Khulna	Jul 2007	2849	448	16%	311	137	0	16	153	0	0	142	17	59
JGH ^{γ†}	Jashore	Sep 2007	3785	816	22%	508	307	1	10	253	0	0	245	26	143
JRRMCH	Sylhet	Jul 2007	3717	667	18%	412	254	1	16	198	0	0	198	34	77
SBMCH	Barishal	Aug 2007	5460	853	16%	533	316	4	9	256	0	0	268	56	111
CMCH	Chattogram	Apr 2014	2405	490	20%	333	154	3	0	128	0	0	205	41	93
MARMCH ^²	Dinajpur	Apr 2014	1565	354	23%	221	133	0	0	111	0	0	108	28	84
			43,830	7,346	17%	4,811	2,522	13	137	2,407	1	0	2,262	395	833

^λInfluenza B typing initiated in January 2016.

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

^ψOne 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.

[‡]Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

[†]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.

^γSurveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

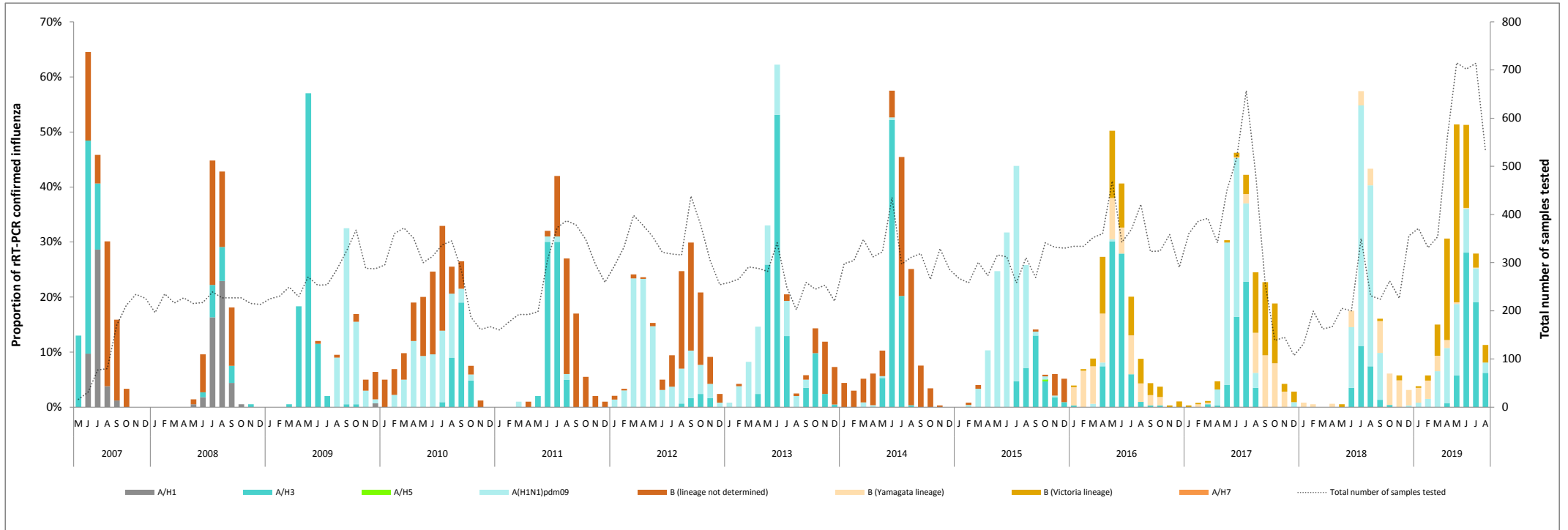
[†]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

^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.

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



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 36 of 2018 to week 35 of 2019

