



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

February 2019

Hospital based influenza surveillance
Monthly enrollment by different wards (Medicine, Pediatrics and CCU)
February 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	25	3	12%	19	1	5%	6	0	0%
RMCH	Rajshahi	16	0	0%	12	2	17%	3	0	0%
CuMCH	Cumilla	12	0	0%	12	0	0%	7	0	0%
KMCH	Khulna	17	1	6%	13	0	0%	2	0	0%
JGH	Jashore	19	3	16%	11	0	0%	4	0	0%
JRRMCH	Sylhet	7	1	14%	11	0	0%	4	0	0%
SBMCH	Barishal	35	3	9%	14	0	0%	4	1	25%
CMCH	Chattogram	26	2	8%	14	0	0%	6	0	0%
MARMCH	Dinajpur	15	1	7%	13	1	8%	4	0	0%
		172	14	8%	119	4	3%	40	1	3%

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
February 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	50	4	8%	0	4	0	0	0	0	0	0	1	3
RMCH	Rajshahi	31	2	6%	0	2	0	0	0	0	0	0	2	0
CuMCH	Cumilla	31	0	0%	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	32	1	3%	1	0	0	0	0	0	0	1	0	0
JGH	Jashore	34	3	9%	1	2	0	0	0	0	0	1	2	0
JRRMCH	Sylhet	22	1	5%	0	1	0	0	0	0	0	0	1	0
SBMCH	Barishal	53	4	8%	1	3	0	0	0	0	0	1	3	0
CMCH	Chattogram	46	2	4%	2	0	0	0	0	0	0	2	0	0
MARMCH	Dinajpur	32	2	6%	0	2	0	0	0	0	0	0	2	0
		331	19	6%	5	14	0	0	0	0	0	5	11	3

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	39	4	10%	11	0	0%
RMCH	Rajshahi	21	1	5%	10	1	10%
CuMCH	Cumilla	21	0	0%	10	0	0%
KMCH	Khulna	22	1	5%	10	0	0%
JGH	Jashore	24	3	13%	10	0	0%
JRRMCH	Sylhet	12	1	8%	10	0	0%
SBMCH	Barishal	43	4	9%	10	0	0%
CMCH	Chattogram	36	2	6%	10	0	0%
MARMCH	Dinajpur	22	2	9%	10	0	0%
		240	18	8%	91	1	1%

[‡] All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

[‡] First ten SARI (aged < 5 years) collected from pediatrics inpatients. More than ten SARI (aged < 5 years) cases belong to the cluster.

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

Age groups	February 2019						Initiation - February 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	-	-	-	63	1	2%	-	-	-	2665	189	7%	5,629	245	4%
1-4 Years	-	-	-	28	0	0%	-	-	-	4217	601	14%	1,905	206	11%
5-14 Years	39	4	10%	-	-	-	2847	580	20%	2317	547	24%	-	-	-
15-24 Years	26	5	19%	-	-	-	3460	739	21%	2167	413	19%	-	-	-
25-39 Years	34	3	9%	-	-	-	3383	652	19%	1916	299	16%	-	-	-
40-59 Years	70	2	3%	-	-	-	3975	703	18%	1245	201	16%	-	-	-
≥ 60 Years	71	4	6%	-	-	-	4129	712	17%	400	46	12%	-	-	-
	240	18	8%	91	1	1%	17,794	3,386	19%	14,927	2,296	15%	7,534	451	6%

[‡] All SARI samples (aged ≥ 5 years) collected throughout the month from medicine and pediatrics inpatients.

[‡] First ten SARI (aged <5 years) collected from pediatrics inpatients.

[‡] Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - February 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	4737	928	20%	641	287	0	9	316	0	0	315	60	57
RMCH	Rajshahi	May 2007	2941	333	11%	224	109	0	14	108	0	0	102	29	19
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	4571	567	12%	375	190	2	9	187	0	0	179	27	13
KMCH	Khulna	Jul 2007	2545	346	14%	249	97	0	16	126	0	0	107	17	19
JGH ^{γ†}	Jashore	Sep 2007	3414	614	18%	405	208	1	10	202	0	0	193	21	49
JRRMCH	Sylhet	Jul 2007	3385	567	17%	360	206	1	16	152	0	0	192	34	29
SBMCH	Barishal	Aug 2007	4990	696	14%	445	248	3	9	207	0	0	229	55	44
CMCH	Chattogram	Apr 2014	1850	313	17%	215	96	2	0	85	0	0	130	41	35
MARMCH [‡]	Dinajpur	Apr 2014	1232	233	19%	168	65	0	0	83	0	0	83	27	17
			40,255	6,133	15%	4,118	2,005	10	137	1,996	1	0	1,980	373	338

^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.

[‡]One sample collected in June 2017 was co-infected with both Influenza A(H1N1)pdm09 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.

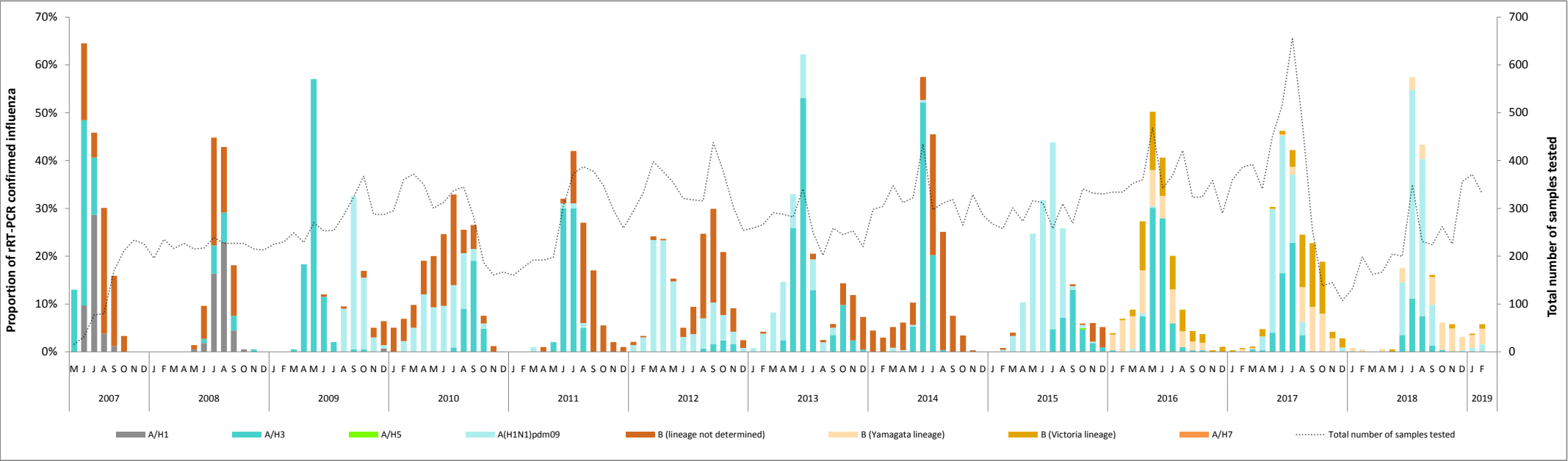
[†]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

[‡]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.

^φIntensive care units (ICU) surveillance discontinued in January 2019.

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



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
Week 09 of 2018 to week 08 of 2019

