



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

May 2018

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
May 2018

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	29	0	0%	0	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	29	0	0%	0	0	0	0	0	0	0	0	0	0
CoMCH	Cumilla	21	0	0%	0	0	0	0	0	0	0	0	0	0
KMCH	Khulna	17	0	0%	0	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	22	0	0%	0	0	0	0	0	0	0	0	0	0
SBMCH	Barishal	26	0	0%	0	0	0	0	0	0	0	0	0	0
CMCH	Chattogram	41	1	2%	0	1	0	0	0	0	0	0	0	1
MARMCH	Dinajpur	20	0	0%	0	0	0	0	0	0	0	0	0	0
		205	1	0.5%	0	1	0	0	0	0	0	0	0	1

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
May 2018

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	22	0	0%	7	0	0%
RMCH	Rajshahi	24	0	0%	5	0	0%
CoMCH	Cumilla	16	0	0%	5	0	0%
KMCH	Khulna	12	0	0%	5	0	0%
JRRMCH	Sylhet	16	0	0%	6	0	0%
SBMCH	Barishal	19	0	0%	7	0	0%
CMCH	Chattogram	36	1	3%	5	0	0%
MARMCH	Dinajpur	15	0	0%	5	0	0%
		160	1	0.6%	45	0	0%

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

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

Hospital based influenza surveillance
Influenza results by different age groups
May 2018

Age groups	May 2018						Initiation - May 2018								
	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	-	-	-	34	0	0%	-	-	-	2665	189	7%	5210	226	4%
1-4 Years	-	-	-	11	0	0%	-	-	-	4217	601	14%	1721	180	10%
5-14 Years	20	0	0%	-	-	-	2592	505	19%	2317	547	24%	-	-	-
15-24 Years	30	0	0%	-	-	-	3181	663	21%	2167	413	19%	-	-	-
25-39 Years	23	0	0%	-	-	-	3068	583	19%	1916	299	16%	-	-	-
40-59 Years	50	0	0%	-	-	-	3464	617	18%	1245	201	16%	-	-	-
≥ 60 Years	37	1	3%	-	-	-	3541	618	17%	400	46	12%	-	-	-
	160	1	0.6%	45	0	0%	15,846	2,986	19%	14,927	2,296	15%	6,931	406	6%

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

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

[‡] Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - May 2018

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	4319	826	19%	558	268	0	9	309	0	0	239	44	54
RMCH	Rajshahi	May 2007	2674	286	11%	191	95	0	14	105	0	0	72	15	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
CoMCH	Cumilla	Oct 2007	4326	544	13%	355	187	2	9	182	0	0	164	24	13
KMCH	Khulna	Jul 2007	2301	309	13%	218	91	0	16	114	0	0	88	13	17
JGH ^γ	Jashore	Sep 2007	3310	608	18%	403	204	1	10	202	0	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3153	515	16%	326	188	1	16	150	0	0	160	16	29
SBMCH	Barishal	Aug 2007	4665	648	14%	409	236	3	9	200	0	0	200	44	43
CMCH	Chattogram	Apr 2014	1386	225	16%	145	78	2	0	61	0	0	84	23	35
MARMCH ²	Dinajpur	Apr 2014	980	191	19%	131	60	0	0	76	0	0	53	23	16
			37,704	5,688	15%	3,772	1,906	10	137	1,929	1	0	1,701	281	331

^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).

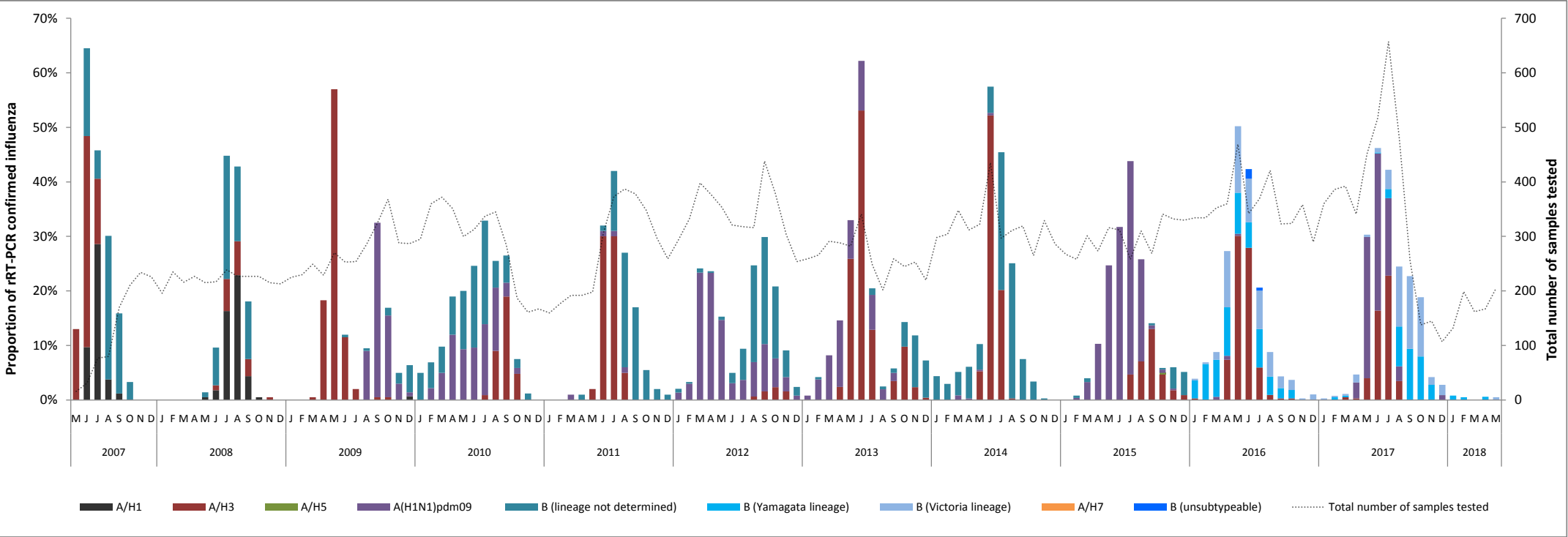
[†]Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

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

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

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - May 2018



Note: Influenza B typing initiated in January 2016