



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

March 2018

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	15	0	0%	5	0	0%
RMCH	Rajshahi	19	0	0%	5	0	0%
CoMCH	Comilla	15	0	0%	5	0	0%
KMCH	Khulna	17	0	0%	5	0	0%
JRRMCH	Sylhet	4	0	0%	5	0	0%
SBMCH	Barisal	15	0	0%	5	0	0%
CMCH	Chittagong	25	0	0%	5	0	0%
MARMCH	Dinajpur	12	0	0%	5	0	0%
		122	0	0%	40	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.

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

Age groups	March 2018						Initiation - March 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	-	-	-	30	0	0%	-	-	-	2665	189	7%	5145	226	4%
1-4 Years	-	-	-	10	0	0%	-	-	-	4217	601	14%	1699	180	11%
5-14 Years	12	0	0%	-	-	-	2552	505	20%	2317	547	24%	-	-	-
15-24 Years	19	0	0%	-	-	-	3126	663	21%	2167	413	19%	-	-	-
25-39 Years	20	0	0%	-	-	-	3021	583	19%	1916	299	16%	-	-	-
40-59 Years	34	0	0%	-	-	-	3386	617	18%	1245	201	16%	-	-	-
≥ 60 Years	37	0	0%	-	-	-	3476	616	18%	400	46	12%	-	-	-
	122	0	0%	40	0	0%	15,561	2,984	19%	14,927	2,296	15%	6,844	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 - March 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/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH ^γ	Dhaka	Jun 2007	2061	312	15%	201	111	0	15	84	0	102	13	7
CBMCH ^γ	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	91	16	10
JIMCH	Kishoregonj	Sep 2007	4254	826	19%	558	268	0	9	309	0	239	44	54
RMCH	Rajshahi	May 2007	2628	286	11%	191	95	0	14	105	0	72	15	19
SZRMCH ^γ	Bogra	Sep 2007	3865	653	17%	439	213	1	12	256	0	170	29	39
LAMB [†]	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	24	1	0
BBMH [†]	Chittagong	Aug 2007	1440	157	11%	118	39	0	13	42	0	63	3	0
CoMCH	Comilla	Oct 2007	4288	544	13%	355	187	2	9	182	0	164	24	13
KMCH	Khulna	Jul 2007	2272	309	14%	218	91	0	16	114	0	88	13	17
JGH ^γ	Jessore	Sep 2007	3310	608	18%	403	204	1	10	202	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3113	515	17%	326	188	1	16	150	0	160	16	29
SBMCH	Barisal	Aug 2007	4622	648	14%	409	236	3	9	200	0	200	44	43
CMCH	Chittagong	Apr 2014	1310	223	17%	145	76	2	0	61	0	84	22	34
MARMCH ^²	Dinajpur	Apr 2014	945	191	20%	131	60	0	0	76	0	53	23	16
			37,332	5,686	15%	3,772	1,904	10	137	1,929	1	1,701	280	330

^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).

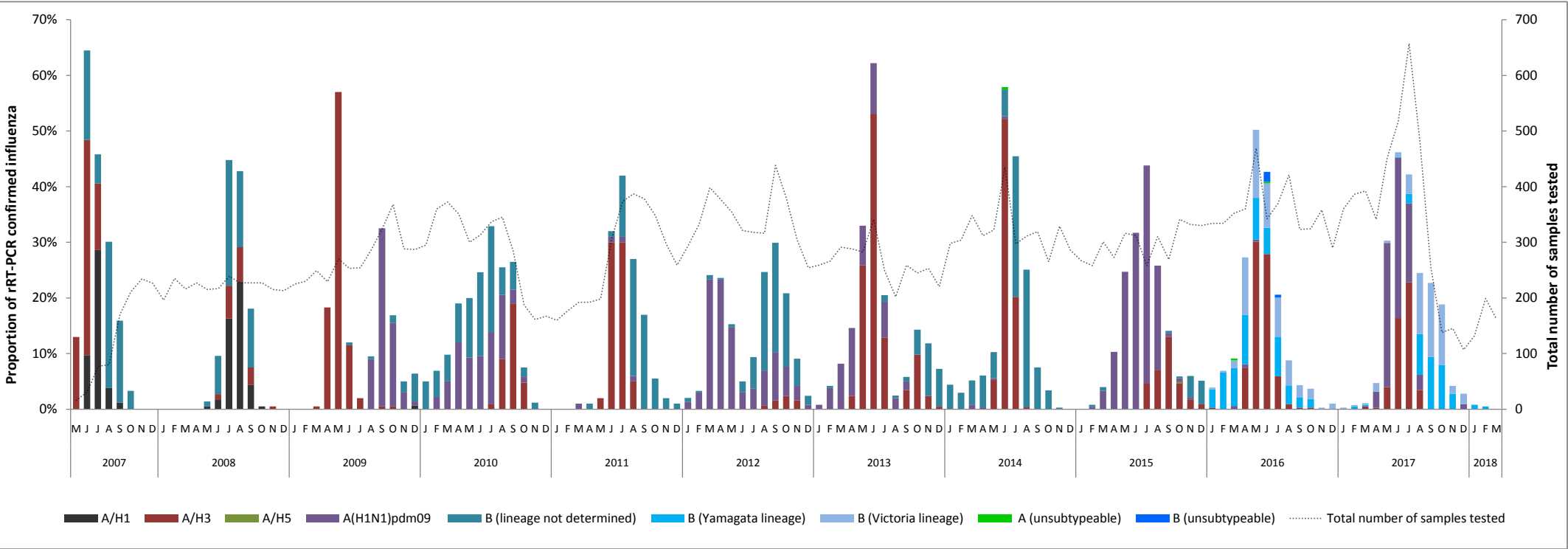
[†]Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

^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 - March 2018



Note: Influenza B typing initiated in January 2016