



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

December 2017

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
December 2017

Hospital	District	Sample	Flu	Flu %	Flu A	Flu B	Flu A+B	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
JIMCH	Kishoregonj	18	1	6%	1	0	0	0	0	0	1	0	0
RMCH	Rajshahi	20	2	10%	0	2	0	0	0	0	0	0	2
KMCH	Khulna	12	0	0%	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	12	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	16	0	0%	0	0	0	0	0	0	0	0	0
CMCH	Chittagong	16	0	0%	0	0	0	0	0	0	0	0	0
MARMCH ²	Dinajpur	13	0	0%	0	0	0	0	0	0	0	0	0
		107	3	3%	1	2	0	0	0	0	1	0	2

²Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH)

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
December 2017

Hospital	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	13	1	8%	5	0	0%
RMCH	Rajshahi	11	1	9%	9	1	11%
KMCH	Khulna	8	0	0%	4	0	0%
JRRMCH	Sylhet	7	0	0%	5	0	0%
SBMCH	Barisal	11	0	0%	5	0	0%
CMCH	Chittagong	11	0	0%	5	0	0%
MARMCH ²	Dinajpur	8	0	0%	5	0	0%
		69	2	3%	38	1	3%

[‡] 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.

² Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH)

Hospital based influenza surveillance
Influenza results by different age groups
December 2017

Age groups	December 2017						Initiation - December 2017								
	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%	5058	226	4%
1-4 Years	-	-	-	8	1	13%	-	-	-	4217	601	14%	1664	180	11%
5-14 Years	8	2	25%	-	-	-	2510	504	20%	2317	547	24%	-	-	-
15-24 Years	15	0	0%	-	-	-	3075	663	22%	2167	413	19%	-	-	-
25-39 Years	14	0	0%	-	-	-	2960	583	20%	1916	299	16%	-	-	-
40-59 Years	19	0	0%	-	-	-	3296	617	19%	1245	201	16%	-	-	-
≥ 60 Years	13	0	0%	-	-	-	3349	615	18%	400	46	12%	-	-	-
	69	2	3%	38	1	3%	15,190	2,982	20%	14,927	2,296	15%	6,722	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 - December 2017

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	4187	826	20%	558	268	0	9	309	0	239	44	54
RMCH	Rajshahi	May 2007	2553	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 ^γ	Chittagong	Aug 2007	1440	157	11%	118	39	0	13	42	0	63	3	0
CoMCH ^γ	Comilla	Oct 2007	4235	544	13%	355	187	2	9	182	0	164	24	13
KMCH	Khulna	Jul 2007	2212	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	3068	514	17%	326	187	1	16	150	0	160	15	29
SBMCH	Barisal	Aug 2007	4558	648	14%	409	236	3	9	200	0	200	44	43
CMCH	Chittagong	Apr 2014	1231	223	18%	145	76	2	0	61	0	84	22	34
MARMCH ^²	Dinajpur	Apr 2014	895	190	21%	131	59	0	0	76	0	53	22	16
			36,839	5,684	15%	3,772	1,902	10	137	1,929	1	1,701	278	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.

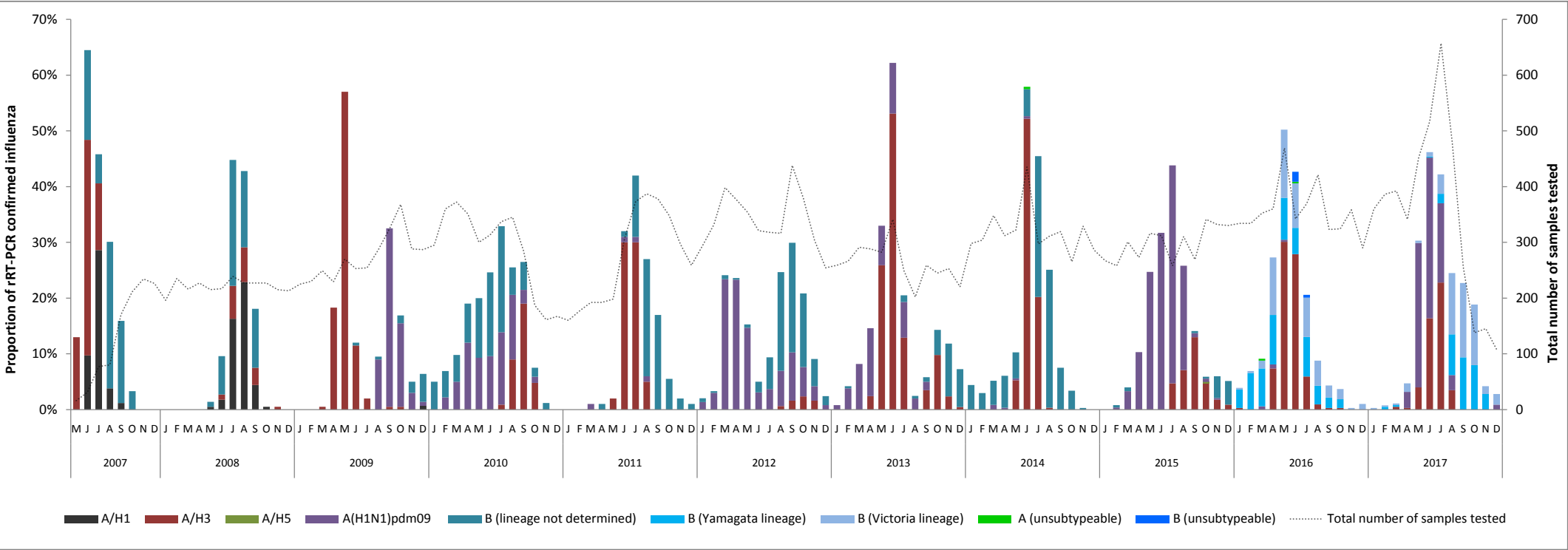
[⚭]One sample collected in June 2017 was co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

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

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

^²Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH)

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - December 2017



Note: Influenza B typing initiated in January 2016