



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

April 2017

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
April 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
DNMCH	Dhaka	22	5	23%	5	0	0	0	1	0	4	0	0
CBMCH	Mymensingh	16	1	6%	1	0	0	0	0	0	1	0	0
JIMCH	Kishoregonj	48	0	0%	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	22	0	0%	0	0	0	0	0	0	0	0	0
SZRMCH	Bogra	37	1	3%	0	1	0	0	0	0	0	0	1
CoMCH	Comilla	30	4	13%	2	2	0	0	0	0	2	0	2
KMCH	Khulna	16	1	6%	0	1	0	0	0	0	0	0	1
JGH	Jessore	25	0	0%	0	0	0	0	0	0	0	0	0
JRRMCH	Sylhet	23	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	50	1	2%	1	0	0	0	0	0	1	0	0
CMCH	Chittagong	33	1	3%	0	1	0	0	0	0	0	0	1
DjMCH	Dinajpur	19	2	11%	2	0	0	0	0	0	2	0	0
		341	16	5%	11	5	0	0	1	0	10	0	5

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	17	4	24%	-	-	-	5	1	20%
CBMCH	Mymensingh	11	0	0%	-	-	-	5	1	20%
JIMCH	Kishoregonj	27	0	0%	16	0	0%	5	0	0%
RMCH	Rajshahi	17	0	0%	-	-	-	5	0	0%
SZRMCH	Bogra	17	0	0%	15	1	7%	5	0	0%
CoMCH	Comilla	10	2	20%	15	1	7%	5	1	20%
KMCH	Khulna	11	0	0%	-	-	-	5	1	20%
JGH	Jessore	9	0	0%	11	0	0%	5	0	0%
JRRMCH	Sylhet	7	0	0%	11	0	0%	5	0	0%
SBMCH	Barisal	23	1	4%	22	0	0%	5	0	0%
CMCH	Chittagong	28	1	4%	-	-	-	5	0	0%
DjMCH	Dinajpur	14	0	0%	-	-	-	5	2	40%
		191	8	4.2%	90	2	2%	60	6	10%

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

[‡] All ILI samples (all age groups) collected during 4 days in each month from both medicine and pediatrics OPD of selected six hospitals.

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

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

Age groups	April 2017									Initiation - April 2017								
	SARI (aged ≥ 5 years) [‡]			ILI [‡]			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 %	Sample	Flu	Flu %
<1 Year	-	-	-	20	0	0%	38	1	3%	-	-	-	2591	171	7%	4793	189	4%
1-4 Years	-	-	-	26	1	4%	22	5	23%	-	-	-	4073	548	13%	1514	133	9%
5-14 Years	39	3	8%	17	1	6%	-	-	-	2222	394	18%	2228	500	22%	-	-	-
15-24 Years	52	3	6%	6	0	0%	-	-	-	2608	516	20%	2110	386	18%	-	-	-
25-39 Years	35	0	0%	11	0	0%	-	-	-	2600	475	18%	1857	284	15%	-	-	-
40-59 Years	25	1	4%	5	0	0%	-	-	-	2912	489	17%	1192	183	15%	-	-	-
≥ 60 Years	40	1	3%	5	0	0%	-	-	-	3000	509	17%	389	41	11%	-	-	-
	191	8	4.2%	90	2	2%	60	6	10%	13,342	2,383	18%	14,440	2,113	15%	6,307	322	5%

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

[‡] All ILI samples (all age groups) collected during 4 days in each month from both medicine and pediatrics OPD of selected six hospitals.

[‡] 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
Hospitalwise influenza lab results
Surveillance initiation - April 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	Dhaka	Jun 2007	1935	273	14%	172	101	0	15	73	0	84	8	2
CBMCH	Mymensingh	Oct 2007	1934	268	14%	183	85	0	7	95	1	80	12	3
JIMCH	Kishoregonj	Sep 2007	3744	640	17%	430	210	0	9	242	0	178	21	19
RMCH	Rajshahi	May 2007	2350	241	10%	157	84	0	14	93	0	50	11	12
SZRMCH	Bogra	Sep 2007	3592	547	15%	359	187	1	12	208	0	138	23	19
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	4058	512	13%	329	181	2	9	170	0	150	22	9
KMCH	Khulna	Jul 2007	2047	255	12%	178	77	0	16	101	0	61	7	9
JGH	Jessore	Sep 2007	3116	525	17%	331	193	1	10	179	0	142	12	43
JRRMCH	Sylhet	Jul 2007	2879	464	16%	283	180	1	16	130	0	137	12	25
SBMCH	Barisal	Aug 2007	4218	554	13%	352	199	3	9	179	0	166	20	30
CMCH	Chittagong	Apr 2014	911	139	15%	83	55	1	0	50	0	33	20	15
DjMCH	Dinajpur	Apr 2014	694	131	19%	81	50	0	0	56	0	23	20	9
			34,089	4,818	14%	3,128	1,681	9	137	1,659	1	1,329	192	195

^λInfluenza B typing initiated in January 2016.

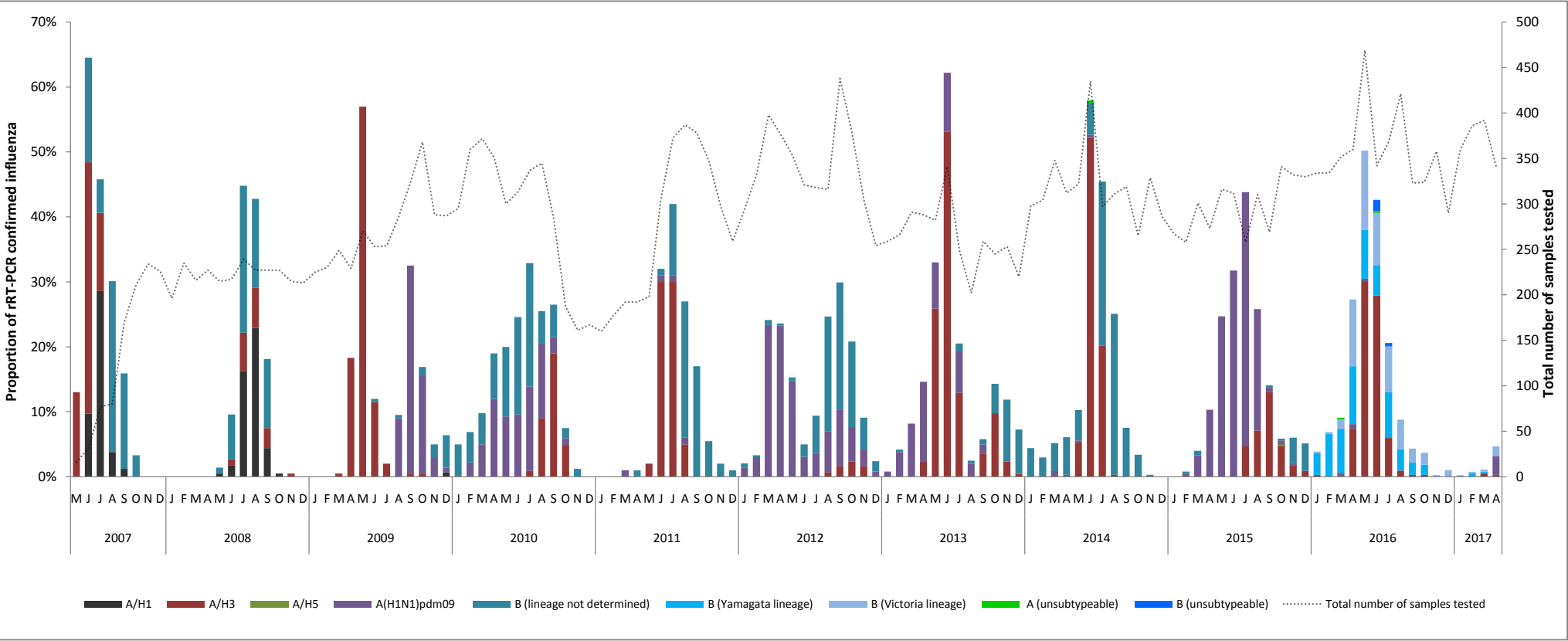
^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

^ψOne sample collected in June 2013 was 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 eight samples were unsubtypeable.

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

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



Note: Influenza B typing initiated in January 2016