



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

February 2017

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
February 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	27	0	0%	0	0	0	0	0	0	0	0	0
CBMCH	Mymensingh	20	1	5%	0	1	0	0	0	0	0	1	0
JIMCH	Kishoregonj	55	0	0%	0	0	0	0	0	0	0	0	0
RMCH	Rajshahi	23	0	0%	0	0	0	0	0	0	0	0	0
SZRMCH	Bogra	36	0	0%	0	0	0	0	0	0	0	0	0
CoMCH	Comilla	31	0	0%	0	0	0	0	0	0	0	0	0
KMCH	Khulna	19	0	0%	0	0	0	0	0	0	0	0	0
JGH	Jessore	35	1	3%	0	1	0	0	0	0	0	1	0
JRRMCH	Sylhet	27	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	55	1	2%	0	1	0	0	0	0	0	0	1
CMCH	Chittagong	37	0	0%	0	0	0	0	0	0	0	0	0
DjMCH	Dinajpur	21	0	0%	0	0	0	0	0	0	0	0	0
		386	3	0.8%	0	3	0	0	0	0	0	2	1

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

Hospital	District	SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	22	0	0%	-	-	-	5	0	0%
CBMCH	Mymensingh	15	1	7%	-	-	-	5	0	0%
JIMCH	Kishoregonj	31	0	0%	19	0	0%	5	0	0%
RMCH	Rajshahi	18	0	0%	-	-	-	5	0	0%
SZRMCH	Bogra	16	0	0%	15	0	0%	5	0	0%
CoMCH	Comilla	11	0	0%	15	0	0%	5	0	0%
KMCH	Khulna	14	0	0%	-	-	-	5	0	0%
JGH	Jessore	12	0	0%	18	1	6%	5	0	0%
JRRMCH	Sylhet	11	0	0%	11	0	0%	5	0	0%
SBMCH	Barisal	30	1	3%	20	0	0%	5	0	0%
CMCH	Chittagong	32	0	0%	-	-	-	5	0	0%
DJMCH	Dinajpur	16	0	0%	-	-	-	5	0	0%
		228	2	1%	98	1	1%	60	0	0%

[‡] 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
February 2017

Age groups	February 2017									Initiation - February 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	-	-	-	13	0	0%	45	0	0%	-	-	-	2561	171	7%	4718	188	4%
1-4 Years	-	-	-	33	0	0%	15	0	0%	-	-	-	4018	547	14%	1469	128	9%
5-14 Years	62	1	2%	16	0	0%	-	-	-	2123	389	18%	2187	499	23%	-	-	-
15-24 Years	37	0	0%	17	0	0%	-	-	-	2499	511	20%	2090	386	18%	-	-	-
25-39 Years	33	0	0%	9	0	0%	-	-	-	2522	475	19%	1839	284	15%	-	-	-
40-59 Years	54	0	0%	9	1	11%	-	-	-	2842	488	17%	1180	183	16%	-	-	-
≥ 60 Years	42	1	2%	1	0	0%	-	-	-	2925	508	17%	383	41	11%	-	-	-
	228	2	1%	98	1	1%	60	0	0%	12,911	2,371	18%	14,258	2,111	15%	6,187	316	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 - February 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	1892	268	14%	167	101	0	15	72	0	80	8	2
CBMCH	Mymensingh	Oct 2007	1896	267	14%	182	85	0	7	95	1	79	12	3
JIMCH	Kishoregonj	Sep 2007	3644	639	18%	429	210	0	9	241	0	178	21	19
RMCH	Rajshahi	May 2007	2303	241	10%	157	84	0	14	93	0	50	11	12
SZRMCH	Bogra	Sep 2007	3514	546	16%	359	186	1	12	208	0	138	23	18
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	3998	507	13%	327	178	2	9	170	0	148	22	6
KMCH	Khulna	Jul 2007	2013	254	13%	178	76	0	16	101	0	61	7	8
JGH	Jessore	Sep 2007	3059	525	17%	331	193	1	10	179	0	142	12	43
JRRMCH	Sylhet	Jul 2007	2830	464	16%	283	180	1	16	130	0	137	12	25
SBMCH	Barisal	Aug 2007	4111	552	13%	350	199	3	9	178	0	165	20	30
CMCH	Chittagong	Apr 2014	834	137	16%	83	53	1	0	50	0	33	19	14
DJMCH	Dinajpur	Apr 2014	651	129	20%	79	50	0	0	56	0	21	20	9
			33,356	4,798	14%	3,115	1,674	9	137	1,656	1	1,319	191	189

^λInfluenza B typing initiated in January 2016.

[‡]Analysis excluded two samples September 2016, which will undergo repeat rRT-PCR.

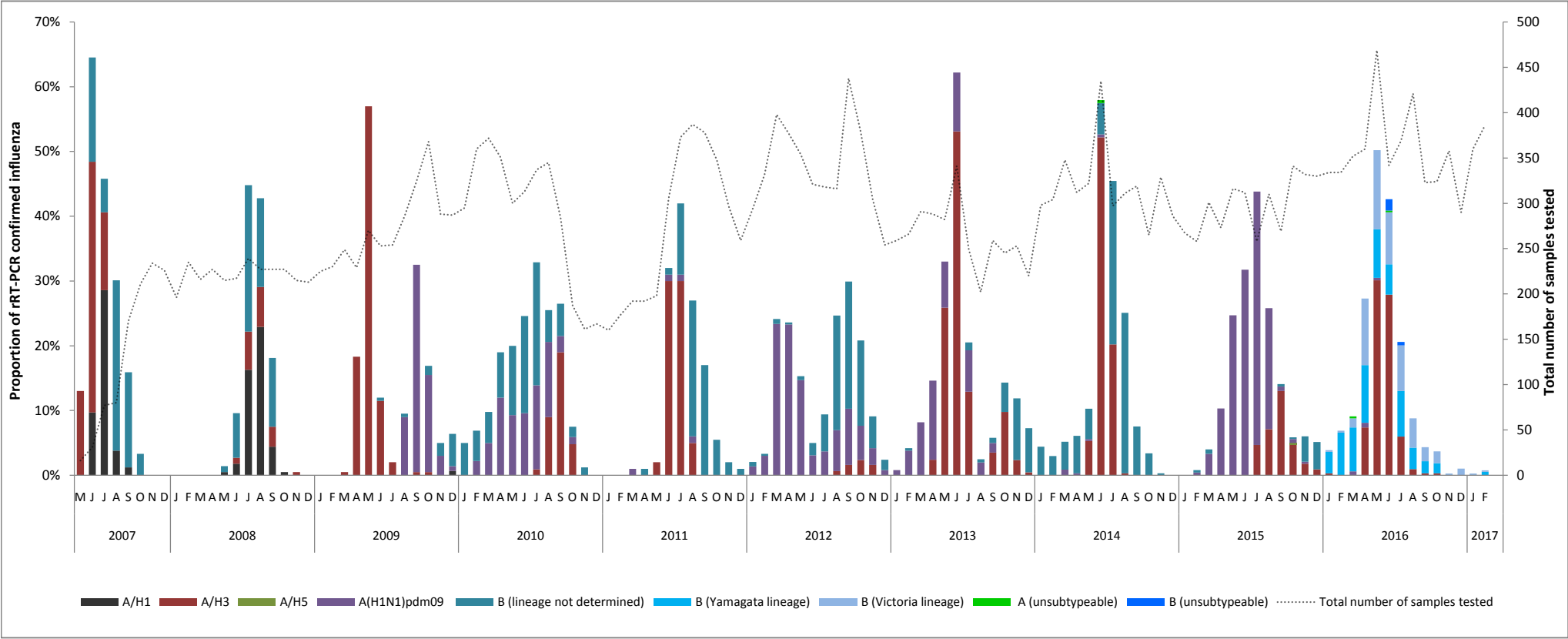
^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

^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 - February 2017



Note: Influenza B typing initiated in January 2016