



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

December 2016

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
December 2016

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	16	0	0%	0	0	0	0	0	0	0	0	0
CBMCH	Mymensingh	18	0	0%	0	0	0	0	0	0	0	0	0
JIMCH	Kishoregonj	37	1	3%	0	1	0	0	0	0	0	0	1
RMCH	Rajshahi	21	0	0%	0	0	0	0	0	0	0	0	0
SZRMCH	Bogra	29	0	0%	0	0	0	0	0	0	0	0	0
CoMCH	Comilla	25	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	27	2	7%	0	2	0	0	0	0	0	0	2
JRRMCH	Sylhet	18	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	39	0	0%	0	0	0	0	0	0	0	0	0
CMCH	Chittagong	24	0	0%	0	0	0	0	0	0	0	0	0
DjMCH	Dinajpur	17	0	0%	0	0	0	0	0	0	0	0	0
		290	3	1%	0	3	0	0	0	0	0	0	3

Hospital based influenza surveillance
Monthly enrollment by different surveillance groups
December 2016

Hospital	District	SARI (aged ≥ 5 years) [‡]			ILI [‡]			SARI (aged < 5 years) [‡]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	11	0	0%	-	-	-	5	0	0%
CBMCH	Mymensingh	12	0	0%	-	-	-	6	0	0%
JIMCH	Kishoregonj	18	1	6%	14	0	0%	5	0	0%
RMCH	Rajshahi	16	0	0%	-	-	-	5	0	0%
SZRMCH	Bogra	11	0	0%	13	0	0%	5	0	0%
CoMCH	Comilla	7	0	0%	13	0	0%	5	0	0%
KMCH	Khulna	15	0	0%	-	-	-	4	0	0%
JGH	Jessore	8	1	13%	14	1	7%	5	0	0%
JRRMCH	Sylhet	6	0	0%	7	0	0%	5	0	0%
SBMCH	Barisal	19	0	0%	15	0	0%	5	0	0%
CMCH	Chittagong	19	0	0%	-	-	-	5	0	0%
DJMCH	Dinajpur	12	0	0%	-	-	-	5	0	0%
		154	2	1%	76	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. More than five SARI (aged <5 years) cases belong to the cluster.

Hospital based influenza surveillance
Influenza results by different age groups
December 2016

Age groups	December 2016									Initiation - December 2016								
	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	-	-	-	12	0	0%	35	0	0%	-	-	-	2530	171	7%	4636	188	4%
1-4 Years	-	-	-	23	0	0%	25	0	0%	-	-	-	3960	547	14%	1428	128	9%
5-14 Years	39	1	3%	11	1	9%	-	-	-	2011	388	19%	2163	499	23%	-	-	-
15-24 Years	30	0	0%	9	0	0%	-	-	-	2421	511	21%	2060	385	19%	-	-	-
25-39 Years	21	0	0%	12	0	0%	-	-	-	2460	475	19%	1825	284	16%	-	-	-
40-59 Years	36	1	3%	8	0	0%	-	-	-	2729	488	18%	1166	182	16%	-	-	-
≥ 60 Years	28	0	0%	1	0	0%	-	-	-	2843	507	18%	378	41	11%	-	-	-
	154	2	1%	76	1	1%	60	0	0%	12,464	2,369	19%	14,082	2,109	15%	6,064	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 - December 2016

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	1844	268	15%	167	101	0	15	72	0	80	8	2
CBMCH	Mymensingh	Oct 2007	1856	266	14%	182	84	0	7	95	1	79	11	3
JIMCH	Kishoregonj	Sep 2007	3541	639	18%	429	210	0	9	241	0	178	21	19
RMCH	Rajshahi	May 2007	2256	241	11%	157	84	0	14	93	0	50	11	12
SZRMCH	Bogra	Sep 2007	3442	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	3936	506	13%	327	177	2	9	170	0	148	22	5
KMCH	Khulna	Jul 2007	1977	254	13%	178	76	0	16	101	0	61	7	8
JGH	Jessore	Sep 2007	2991	524	18%	331	192	1	10	179	0	142	11	43
JRRMCH	Sylhet	Jul 2007	2775	464	17%	283	180	1	16	130	0	137	12	25
SBMCH	Barisal	Aug 2007	4005	551	14%	350	198	3	9	178	0	165	20	29
CMCH	Chittagong	Apr 2014	765	137	18%	83	53	1	0	50	0	33	19	14
DJMCH	Dinajpur	Apr 2014	611	129	21%	79	50	0	0	56	0	21	20	9
			32,610	4,794	15%	3,115	1,670	9	137	1,656	1	1,319	189	187

^λInfluenza B typing initiated in January 2016.

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

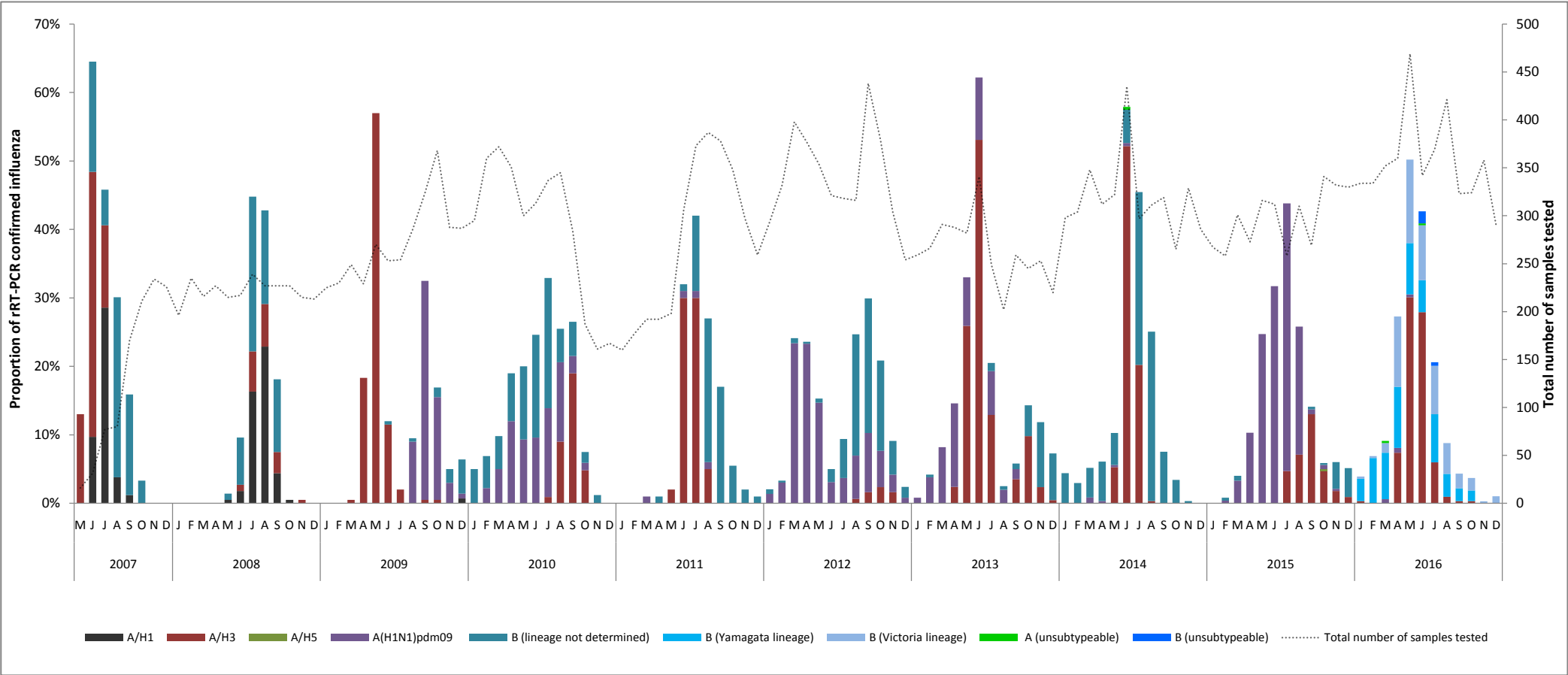
^ψrRT-PCR result of four samples were equivocal positive for Influenza A.

^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 - December 2016



Note: Influenza B typing initiated in January 2016