

Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

February 2016

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
February 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	14	1	7%	0	1	0	0	0	0	0	1	0
CBMCH	Mymensingh	17	2	12%	0	2	0	0	0	0	0	2	0
JIMCH	Kishoregonj	42	4	10%	0	4	0	0	0	0	0	4	0
RMCH	Rajshahi	24	0	0%	0	0	0	0	0	0	0	0	0
SZRMCH	Bogra	36	1	3%	0	1	0	0	0	0	0	1	0
LAMB	Dinajpur	10	1	10%	0	1	0	0	0	0	0	1	0
BBMH	Chittagong	11	0	0%	0	0	0	0	0	0	0	0	0
CoMCH	Comilla	36	8	22%	0	8	0	0	0	0	0	8	0
KMCH	Khulna	13	0	0%	0	0	0	0	0	0	0	0	0
JGH	Jessore	27	1	4%	0	1	0	0	0	0	0	1	0
JRRMCH	Sylhet	25	1	4%	0	1	0	0	0	0	0	1	0
SBMCH	Barisal	41	1	2%	0	1	0	0	0	0	0	1	0
CMCH	Chittagong	20	2	10%	0	2	0	0	0	0	0	1	1
DjMCH	Dinajpur	18	1	6%	0	1	0	0	0	0	0	1	0
		334	23	7%	0	23	0	0	0	0	0	22	1

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

Hospital	District	SARI [†]			ILI [‡]			Severe Pneumonia [¥]		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
DNMCH	Dhaka	9	1	11%	-	-	-	5	0	0%
CBMCH	Mymensingh	12	2	17%	-	-	-	5	0	0%
JIMCH	Kishoregonj	19	4	21%	16	0	0%	7	0	0%
RMCH	Rajshahi	19	0	0%	-	-	-	5	0	0%
SZRMCH	Bogra	15	0	0%	16	1	6%	5	0	0%
LAMB	Dinajpur	3	0	0%	-	-	-	7	1	14%
BBMH	Chittagong	6	0	0%	-	-	-	5	0	0%
CoMCH	Comilla	11	0	0%	20	8	40%	5	0	0%
KMCH	Khulna	8	0	0%	-	-	-	5	0	0%
JGH	Jessore	7	0	0%	15	1	7%	5	0	0%
JRRMCH	Sylhet	2	0	0%	18	1	6%	5	0	0%
SBMCH	Barisal	15	1	7%	21	0	0%	5	0	0%
CMCH	Chittagong	14	1	7%	-	-	-	6	1	17%
DJMCH	Dinajpur	13	1	8%	-	-	-	5	0	0%
		153	10	7%	106	11	10%	75	2	3%

[†] 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 Severe Pneumonia samples (aged < 5 years) collected from pediatrics inpatients. More than five severe pneumonia cases belong to the cluster.

**Hospital based influenza surveillance
Influenza results by different age groups
February 2016**

Age groups	February 2016									Initiation - February 2016								
	SARI [†]			ILI [‡]			Severe Pneumonia [¥]			SARI [†]			ILI [‡]			Severe Pneumonia [¥]		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	21	0	0%	63	1	2%	-	-	-	2324	157	7%	4178	161	4%
1-4 Years	-	-	-	29	1	3%	12	1	8%	-	-	-	3685	504	14%	1227	110	9%
5-14 Years	28	2	7%	22	8	36%	-	-	-	1593	298	19%	2027	455	22%	-	-	-
15-24 Years	19	0	0%	11	1	9%	-	-	-	2017	414	21%	1934	362	19%	-	-	-
25-39 Years	22	1	5%	13	1	8%	-	-	-	2088	407	19%	1715	267	16%	-	-	-
40-59 Years	35	5	14%	6	0	0%	-	-	-	2339	407	17%	1090	166	15%	-	-	-
≥ 60 Years	49	2	4%	4	0	0%	-	-	-	2427	401	17%	358	37	10%	-	-	-
	153	10	7%	106	11	10%	75	2	3%	10,464	1,927	18%	13,133	1,948	15%	5,405	271	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 Severe Pneumonia samples (aged < 5 years) collected from pediatrics inpatients. More than five severe pneumonia cases belong to the cluster.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - February 2016

Hospital	District	Initiation	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	Jun 2007	1677	246	15%	153	93	0	15	58	0	80	2	0
CBMCH	Mymensingh [ⓧ]	Oct 2007	1674	245	15%	171	74	0	7	83	1	79	4	0
JIMCH	Kishoregonj ^{‡ⓧ}	Sep 2007	3065	558	18%	380	178	0	9	192	0	177	8	0
RMCH	Rajshahi	May 2007	2012	188	9%	128	60	0	14	64	0	50	0	0
SZRMCH	Bogra [ⓧ]	Sep 2007	3060	455	15%	310	145	0	12	159	0	138	1	0
LAMB	Dinajpur	Oct 2007	1160	112	10%	72	40	0	7	41	0	24	1	0
BBMH	Chittagong	Aug 2007	1420	150	11%	113	37	0	13	39	0	61	1	0
CoMCH	Comilla	Oct 2007	3617	475	13%	312	161	2	9	157	0	148	11	0
KMCH	Khulna	Jul 2007	1799	230	13%	169	61	0	16	92	0	61	0	0
JGH	Jessore	Sep 2007	2671	450	17%	312	138	0	10	160	0	142	1	0
JRRMCH	Sylhet	Jul 2007	2510	410	16%	266	144	0	16	113	0	137	1	1
SBMCH	Barisal [ⓧ]	Aug 2007	3484	476	14%	324	149	3	9	152	0	165	1	0
CMCH	Chittagong	Apr 2014	463	76	16%	57	19	0	0	27	0	30	1	1
DJMCH	Dinajpur ^{ⓧⓧ}	Apr 2014	390	75	19%	54	21	0	0	31	0	21	1	0
			29,002	4,146	14%	2,821	1,320	5	137	1,368	1	1,313	33	2

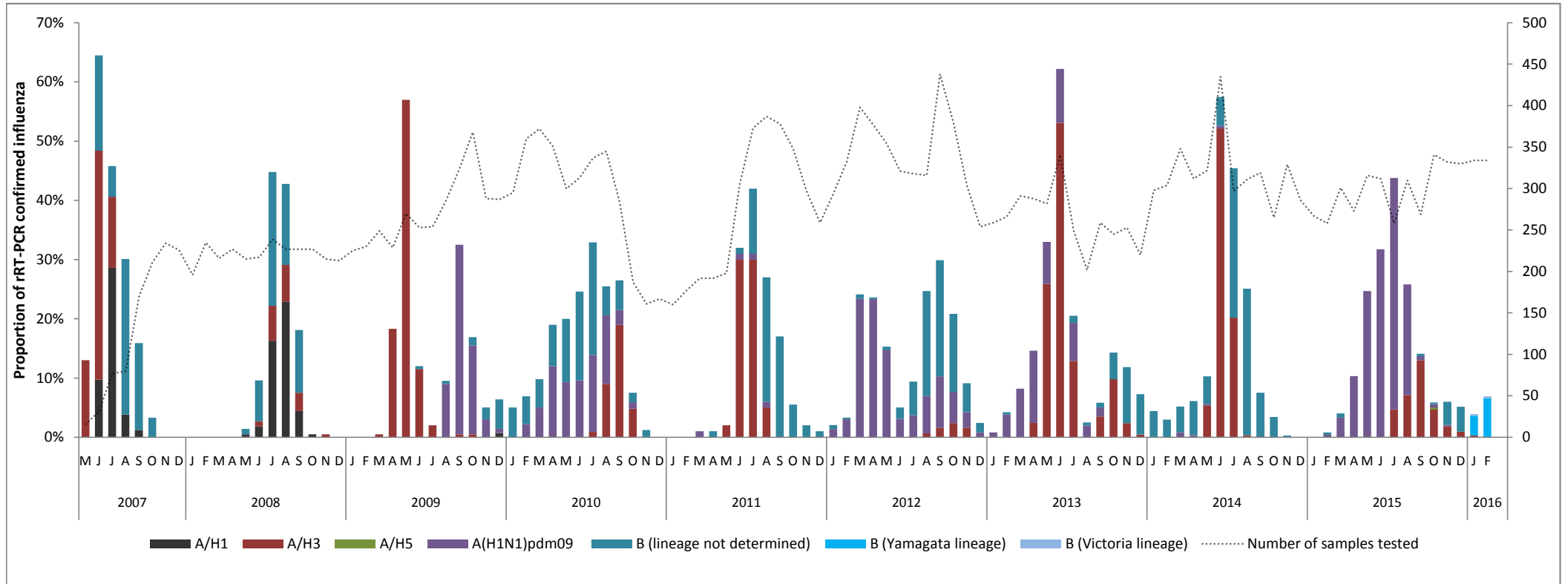
[ⓧ]rRT-PCR result of one sample was equivocal positive for Influenza A

^{ⓧⓧ}rRT-PCR result of two samples were equivocal positive for Influenza A

[‡]One sample collected in May 2013 was co-infected with both A(H3) and A(H1N1)pdm09

* Influenza B typing initiated in January 2016

Hospital based influenza surveillance
Influenza seasonality graph
May 2007 - February 2016



*Influenza B typing initiated in January 2016