



Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

October 2017

Hospital based influenza surveillance
Monthly hospitalwise influenza lab results
October 2017

Hospital ^Ÿ	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	23	7	30%	0	7	0	0	0	0	0	4	3
RMCH	Rajshahi	27	3	11%	0	3	0	0	0	0	0	2	1
KMCH	Khulna	13	3	23%	0	3	0	0	0	0	0	0	3
JRRMCH	Sylhet	10	0	0%	0	0	0	0	0	0	0	0	0
SBMCH	Barisal	22	7	32%	0	7	0	0	0	0	0	4	3
CMCH	Chittagong	24	1	4%	0	1	0	0	0	0	0	0	1
DjMCH	Dinajpur	19	5	26%	0	5	0	0	0	0	0	1	4
		138	26	19%	0	26	0	0	0	0	0	11	15

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

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

Hospital [‡]	District	SARI (aged ≥ 5 years) [‡]			SARI (aged < 5 years) [*]		
		Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	18	6	33%	5	1	20%
RMCH	Rajshahi	22	2	9%	5	1	20%
KMCH	Khulna	8	2	25%	5	1	20%
JRRMCH	Sylhet	5	0	0%	5	0	0%
SBMCH	Barisal	17	6	35%	5	1	20%
CMCH	Chittagong	19	1	5%	5	0	0%
DjMCH	Dinajpur	14	5	36%	5	0	0%
		103	22	21%	35	4	11%

Note: Outpatient ILI surveillance discontinued in October 2017.

[‡] 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.

[‡] Surveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra), CoMCH (Comilla) and JGH (Jessore) in October 2017.

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

Age groups	October 2017						Initiation - October 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	-	-	-	24	1	4%	-	-	-	2665	189	7%	4998	226	5%
1-4 Years	-	-	-	11	3	27%	-	-	-	4217	601	14%	1647	179	11%
5-14 Years	15	4	27%	-	-	-	2482	500	20%	2317	547	24%	-	-	-
15-24 Years	36	8	22%	-	-	-	3041	662	22%	2167	413	19%	-	-	-
25-39 Years	13	3	23%	-	-	-	2926	583	20%	1916	299	16%	-	-	-
40-59 Years	21	5	24%	-	-	-	3254	616	19%	1245	201	16%	-	-	-
≥ 60 Years	18	2	11%	-	-	-	3312	613	19%	400	46	12%	-	-	-
	103	22	21%	35	4	11%	15,015	2,974	20%	14,927	2,296	15%	6,645	405	6%

Note: Outpatient ILI surveillance discontinued in October 2017.

[‡] 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.

Hospital based influenza surveillance
Hospitalwise influenza lab results
Surveillance initiation - October 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	4144	824	20%	557	267	0	9	309	0	238	43	54
RMCH	Rajshahi	May 2007	2509	283	11%	191	92	0	14	105	0	72	15	16
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 [†]	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	2185	306	14%	218	88	0	16	114	0	88	11	16
JGH ^γ	Jessore	Sep 2007	3310	608	18%	403	204	1	10	202	0	191	17	49
JRRMCH	Sylhet	Jul 2007	3036	513	17%	326	186	1	16	150	0	160	14	29
SBMCH	Barisal	Aug 2007	4522	648	14%	409	236	3	9	200	0	200	44	43
CMCH	Chittagong	Apr 2014	1193	223	19%	145	76	2	0	61	0	84	22	34
DjMCH	Dinajpur	Apr 2014	863	190	22%	131	59	0	0	76	0	53	22	16
			36,587	5,675	16%	3,771	1,894	10	137	1,929	1	1,700	274	326

^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.

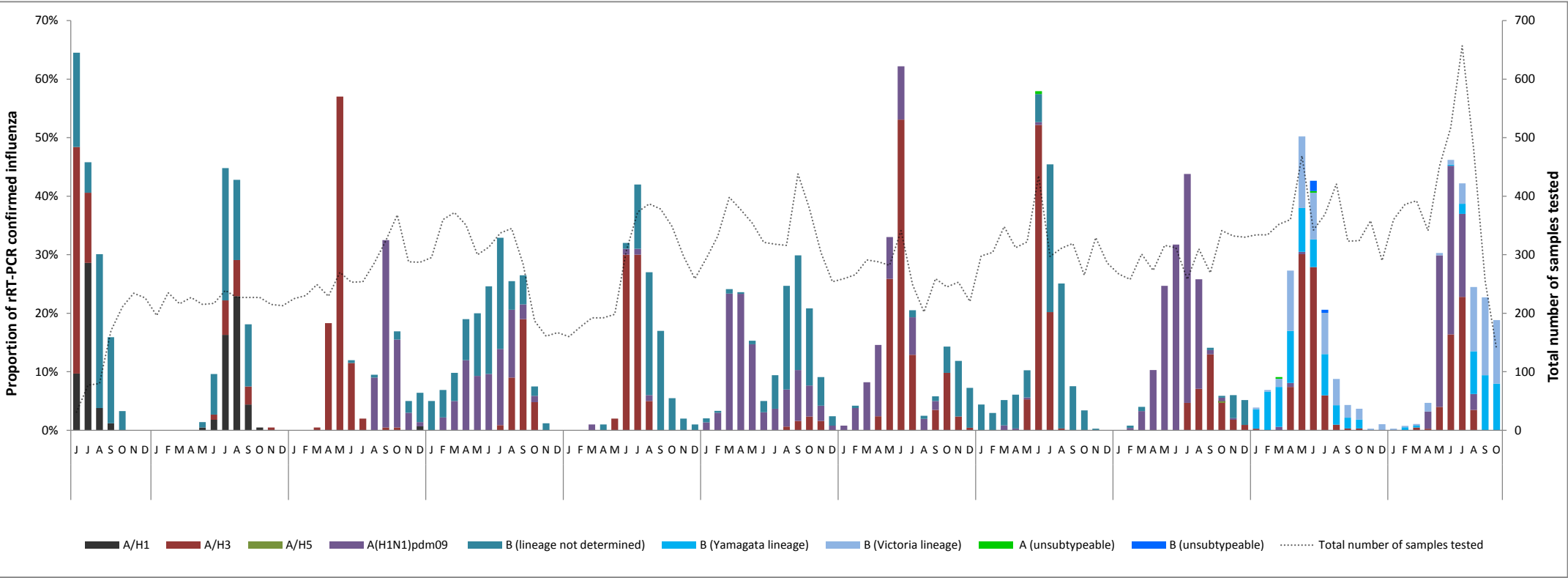
^λThree samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage), another ten samples were unsubtypeable.

[⌘]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.

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



Note: Influenza B typing initiated in January 2016