





Monthly summary report

Hospital Based Human Influenza Surveillance in Bangladesh

March 2019

Hospital based influenza surveillance Monthly enrollment by different wards (Medicine, Pediatrics and CCU) March 2019

Hospital	District	N	Medicine ward	k	Pediatrio	s ward (≤12 ye	ars of age)	Coronary Care Unit (CCU)			
	District	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	
JIMCH	Kishoregonj	30	6	20%	20	6	30%	4	0	0%	
RMCH	Rajshahi	15	3	20%	11	0	0%	2	0	0%	
CuMCH	Cumilla	8	1	13%	15	2	13%	4	0	0%	
KMCH	Khulna	18	4	22%	12	2	17%	3	0	0%	
JGH	Jashore	17	6	35%	12	2	17%	5	1	20%	
JRRMCH	Sylhet	11	0	0%	20	3	15%	9	0	0%	
SBMCH	Barishal	26	1	4%	17	0	0%	5	0	0%	
CMCH	Chattogram	31	7	23%	19	2	11%	8	3	38%	
MARMCH	Dinajpur	12	0	0%	15	4	27%	5	0	0%	
		168	28	17%	141	21	15%	45	4	9%	

Hospital based influenza surveillance Monthly hospitalwise influenza lab results March 2019

Hospital	District	Sample	Flu	Flu %	Flu A	Flu B	Flu A+B	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata Iineage	Flu B Victoria lineage
JIMCH	Kishoregonj	54	12	22%	1	11	0	0	0	0	0	1	4	7
RMCH	Rajshahi	28	3	11%	0	3	0	0	0	0	0	0	3	0
CuMCH	Cumilla	27	3	11%	0	3	0	0	0	0	0	0	1	2
KMCH	Khulna	33	6	18%	6	0	0	0	0	0	0	6	0	0
JGH	Jashore	34	9	26%	5	4	0	0	0	0	0	5	2	2
JRRMCH	Sylhet	40	3	8%	1	2	0	0	0	0	0	1	0	2
SBMCH	Barishal	48	1	2%	0	1	0	0	0	0	0	0	0	1
CMCH	Chattogram	58	12	21%	10	2	0	0	0	0	0	10	0	2
MARMCH	Dinajpur	32	4	13%	0	4	0	0	0	0	0	0	0	4
		354	53	15%	23	30	0	0	0	0	0	23	10	20

Hospital based influenza surveillance Monthly enrollment by different surveillance groups March 2019

Hospital	District	SA	RI (aged ≥ 5 year	s) [‡]	SARI (aged < 5 years) [*]					
поѕрна	DISTRICT	Sample	Flu	Flu %	Sample	Flu	Flu %			
JIMCH	Kishoregonj	42	11	26%	12	1	8%			
RMCH	Rajshahi	18	3	17%	10	0	0%			
CuMCH	Cumilla	17	3	18%	10	0	0%			
KMCH	Khulna	23	5	22%	10	1	10%			
JGH	Jashore	24	8	33%	10	1	10%			
JRRMCH	Sylhet	28	2	7%	12	1	8%			
SBMCH	Barishal	37	1	3%	11	0	0%			
CMCH	Chattogram	48	11	23%	10	1	10%			
MARMCH	Dinajpur	22	2	9%	10	2	20%			
		259	46	18%	95	7	7%			

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

[¥] First ten SARI (aged <5 years) collected from pediatrics inpatients. More than ten SARI (aged <5 years) cases belong to the cluster.

Hospital based influenza surveillance Influenza results by different age groups March 2019

	March 2019							Initiation - March 2019									
Age groups	SARI (aged ≥ 5 years) [₹]			SARI (a	ged < 5	years) [¥]	SARI (a	aged ≥ 5 ງ	years) [₮]		ILI [‡]		SARI (a	iged < 5	years) [¥]		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %		
<1 Year	-	-	-	64	3	5%	-	-	-	2665	189	7%	5,693	248	4%		
1-4 Years	-	-	-	31	4	13%	-	-	-	4217	601	14%	1,936	210	11%		
5-14 Years	52	15	29%	-	-	-	2899	595	21%	2317	547	24%	-	-	-		
15-24 Years	34	6	18%	-	-	-	3494	745	21%	2167	413	19%	-	-	-		
25-39 Years	36	8	22%	-	-	-	3419	660	19%	1916	299	16%	-	-	-		
40-59 Years	56	7	13%	-	-	-	4031	710	18%	1245	201	16%	-	-	-		
≥ 60 Years	81	10	12%	-	-	-	4210	722	17%	400	46	12%	-	-	-		
	259	46	18%	95	7	7%	18,053	3,432	19%	14,927	2,296	15%	7,629	458	6%		

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

[¥]First ten SARI (aged <5 years) collected from pediatrics inpatients.

[‡]Outpatient ILI surveillance discontinued in October 2017.

Hospital based influenza surveillance Hospitalwise influenza lab results Surveillance initiation - March 2019

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A ^Ψ	Flu B ^x	Flu A+B [‡]	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata Iineage	Flu B Victoria Iineage
DNMCH	Dhaka	Jun 2007	2061	312	15%	201	111	0	15	84	0	0	102	13	7
CBMCH ^Y	Mymensingh	Oct 2007	2053	302	15%	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	4791	940	20%	642	298	0	9	316	0	0	316	64	64
RMCH	Rajshahi	May 2007	2969	336	11%	224	112	0	14	108	0	0	102	32	19
SZRMCH ^Y	Bogura	Sep 2007	3865	653	17%	439	213	1	12	256	0	0	170	29	39
LAMB [†]	Dinajpur	Oct 2007	1171	112	10%	72	40	0	7	41	0	0	24	1	0
$BBMH^{\dagger}$	Chattogram	Aug 2007	1440	157	11%	118	39	0	13	42	0	0	63	3	0
CuMCH	Cumilla	Oct 2007	4598	570	12%	375	193	2	9	187	0	0	179	28	15
KMCH	Khulna	Jul 2007	2578	352	14%	255	97	0	16	126	0	0	113	17	19
JGH ^{Y⊺}	Jashore	Sep 2007	3448	623	18%	410	212	1	10	202	0	0	198	23	51
JRRMCH	Sylhet	Jul 2007	3425	570	17%	361	208	1	16	152	0	0	193	34	31
SBMCH	Barishal	Aug 2007	5038	697	14%	445	249	3	9	207	0	0	229	55	45
СМСН	Chattogram	Apr 2014	1908	325	17%	225	98	2	0	85	0	0	140	41	37
MARMCH ²	Dinajpur	Apr 2014	1264	237	19%	168	69	0	0	83	0	0	83	27	21
			40,609	6,186	15%	4,141	2,035	10	137	1,996	1	0	2,003	383	358

¹Influenza B typing initiated in January 2016.

Note: Surveillance activities extended to the intensive care units (ICU) and coronary care unit (CCU) of the participating hospitals in January 2018.

 $^{^{\}Psi}$ rRT-PCR result of four samples were equivocal positive for Influenza A.

 $^{^{\}Psi}$ One sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

¹Three 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.

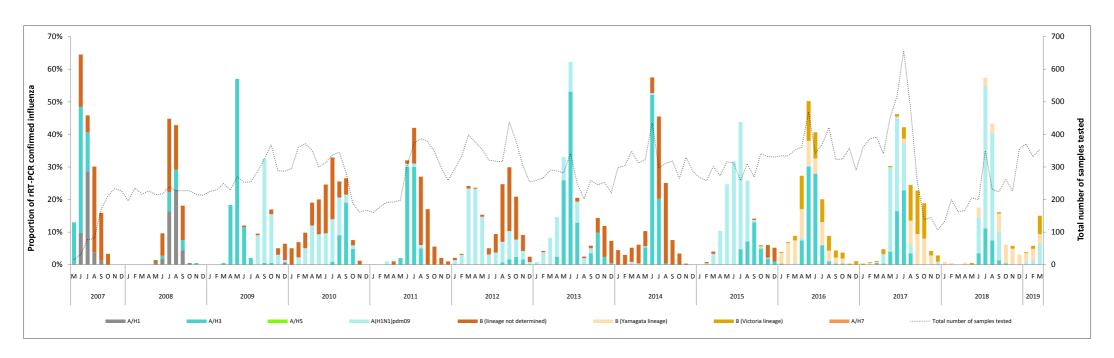
^ŸSurveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogra) and JGH (Jessore) in October 2017.

[†]Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

²Dinajpur Medical College Hospital (DjMCH) has been renamed as M Abdur Rahim Medical College Hospital (MARMCH).

^ф Intensive care units (ICU) surveillance discontinued in January 2019.

Hospital based influenza surveillance Influenza seasonality graph May 2007 - March 2019



Note: Influenza B typing initiated in January 2016

Hospital based influenza surveillance Influenza seasonality graph Week 14 of 2018 to week 13 of 2019

