



## Monthly summary report

# Hospital Based Human Influenza Surveillance in Bangladesh

**May 2023**

**Hospital based influenza surveillance**  
**Monthly enrollment by different wards (Medicine, Pediatrics and CCU)**  
**May 2023**

Hospital	District	Medicine ward			Pediatrics ward ( $\leq 12$ years of age)			Coronary Care Unit (CCU)		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	60	1	2	53	1	2	1	0	0
RMCH	Rajshahi	25	0	0	32	0	0	1	0	0
CuMCH	Cumilla	23	1	4	32	2	6	3	0	0
KMCH	Khulna	15	5	33	25	2	8	0	0	0
JGH	Jashore	50	3	6	42	2	5	2	0	0
JRRMCH	Sylhet	42	4	10	63	0	0	1	0	0
SBMCH	Barishal	27	0	0	53	3	6	0	0	0
CMCH	Chattogram	70	3	4	68	3	4	5	0	0
MARMCH	Dinajpur	41	0	0	54	0	0	0	0	0
		<b>353</b>	<b>17</b>	<b>5</b>	<b>422</b>	<b>13</b>	<b>3</b>	<b>13</b>	<b>0</b>	<b>0</b>

**Hospital based influenza surveillance**  
**Monthly hospitalwise influenza lab results**  
**May 2023**

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 lineage	Flu B Victoria lineage
JIMCH	Kishoregonj	114	2	2	1	1	0	0	1	0	0	0	0	1
RMCH	Rajshahi	58	0	0	0	0	0	0	0	0	0	0	0	0
CuMCH	Cumilla	58	3	5	0	3	0	0	0	0	0	0	0	3
KMCH	Khulna	40	7	18	2	5	0	0	2	0	0	0	0	5
JGH	Jashore	94	5	5	4	1	0	0	3	0	0	1	0	1
JRRMCH	Sylhet	106	4	4	2	2	0	0	0	0	0	2	0	2
SBMCH	Barishal	80	3	4	0	3	0	0	0	0	0	0	0	3
CMCH	Chattogram	143	6	4	2	4	0	0	2	0	0	0	0	4
MARMCH	Dinajpur	95	0	0	0	0	0	0	0	0	0	0	0	0
		<b>788</b>	<b>30</b>	<b>4</b>	<b>11</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>19</b>

**Hospital based influenza surveillance**  
**Monthly enrollment by different surveillance groups**  
**May 2023**

Hospital	District	SARI (aged ≥ 5 years)			SARI (aged < 5 years)			ILI <sup>‡</sup>		
		Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
JIMCH	Kishoregonj	40	1	3	26	0	0	48	1	2
RMCH	Rajshahi	27	0	0	31	0	0	-	-	-
CuMCH	Cumilla	38	1	3	20	2	10	-	-	-
KMCH	Khulna	19	6	32	21	1	5	-	-	-
JGH	Jashore	22	1	5	22	0	0	50	4	8
JRRMCH	Sylhet	22	0	0	36	0	0	48	4	8
SBMCH	Barishal	44	1	2	36	2	6	-	-	-
CMCH	Chattogram	51	1	2	42	2	5	50	3	6
MARMCH	Dinajpur	18	0	0	30	0	0	47	0	0
		<b>281</b>	<b>11</b>	<b>4</b>	<b>264</b>	<b>7</b>	<b>3</b>	<b>243</b>	<b>12</b>	<b>5</b>

<sup>‡</sup>Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022 and JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

**Hospital based influenza surveillance  
Influenza results by different age groups  
May 2023**

Age groups	May 2023									Initiation - May 2023								
	SARI (aged ≥ 5 years)			ILI <sup>‡</sup>			SARI (aged < 5 years)			SARI (aged ≥ 5 years)			ILI <sup>‡</sup>			SARI (aged < 5 years)		
	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %	Sample	Flu	Flu %
<1 Year	-	-	-	17	0	0	176	3	2	-	-	-	2,778	190	7	9,964	511	5
1-4 Years	-	-	-	28	3	11	88	4	5	-	-	-	4,454	605	14	4,177	518	12
5-14 Years	90	3	3	43	0	0	-	-	-	4,699	913	19	2,580	553	21	-	-	-
15-24 Years	49	4	8	68	6	9	-	-	-	4,883	1,077	22	2,463	423	17	-	-	-
25-39 Years	32	1	3	50	1	2	-	-	-	5,237	961	18	2,130	303	14	-	-	-
40-59 Years	55	1	2	24	1	4	-	-	-	6,694	1,017	15	1,409	202	14	-	-	-
≥ 60 Years	55	2	4	13	1	8	-	-	-	6,882	1,023	15	474	47	10	-	-	-
	<b>281</b>	<b>11</b>	<b>4</b>	<b>243</b>	<b>12</b>	<b>5</b>	<b>264</b>	<b>7</b>	<b>3</b>	<b>28,395</b>	<b>4,991</b>	<b>18</b>	<b>16,288</b>	<b>2,323</b>	<b>14</b>	<b>14,141</b>	<b>1,029</b>	<b>7</b>

<sup>‡</sup> Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022 and JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

**Hospital based influenza surveillance**  
**Hospitalwise influenza lab results**  
**Surveillance initiation - May 2023**

Hospital	District	Initiation	Sample	Flu	Flu %	Flu A <sup>ψ</sup>	Flu B <sup>λ</sup>	Flu A+B <sup>‡</sup>	Flu A/H1	Flu A/H3	Flu A/H5	Flu A/H7	Flu A/ (H1N1)pdm09	Flu B Yamagata lineage	Flu B Victoria lineage
DNMCH <sup>γ</sup>	Dhaka	Jun 2007	2,061	312	15	201	111	0	15	84	0	0	102	13	7
CBMCH <sup>γ</sup>	Mymensingh	Oct 2007	2,053	302	15	206	96	0	7	107	1	0	91	16	10
JIMCH	Kishoregonj	Sep 2007	7,231	1,231	17	832 <sup>ι</sup>	399	0	9	445	0	0	376	64	165
RMCH	Rajshahi	May 2007	4,899	540	11	362 <sup>ι</sup>	178	0	14	207	0	0	139	39	78
SZRMCH <sup>γ</sup>	Bogura	Sep 2007	3,865	653	17	439	213	1	12	256	0	0	170	29	39
LAMB <sup>†</sup>	Dinajpur	Oct 2007	1,171	112	10	72	40	0	7	41	0	0	24	1	0
BBMH <sup>†</sup>	Chattogram	Aug 2007	1,440	157	11	118	39	0	13	42	0	0	63	3	0
CuMCH <sup>‡</sup>	Cumilla	Oct 2007	6,344	732	12	489*	240	3	9	257	0	0	222	28	62
KMCH	Khulna	Jul 2007	4,162	527	13	373* <sup>ι</sup>	154	0	16	190	0	0	163	17	76
JGH <sup>γ‡</sup>	Jashore	Sep 2007	5,314	948	18	612	335	1	10	325	0	0	277	26	171
JRRMCH	Sylhet	Jul 2007	5,327	780	15	500 <sup>ι</sup>	279	1	16	254	0	0	229	34	102
SBMCH	Barishal	Aug 2007	7,281	980	13	639 <sup>ι</sup>	337	4	9	313	0	0	315	56	132
CMCH	Chattogram	Apr 2014	4,628	659	14	470	186	3	0	202	0	0	268	41	125
MARMCH <sup>2</sup>	Dinajpur	Apr 2014	3,048	410	13	270 <sup>ι</sup>	140	0	0	145	0	0	122	28	91
			<b>58,824</b>	<b>8,343</b>	<b>14</b>	<b>5,583</b>	<b>2,747</b>	<b>13</b>	<b>137</b>	<b>2,868</b>	<b>1</b>	<b>0</b>	<b>2,561</b>	<b>395</b>	<b>1,058</b>

<sup>λ</sup>Determination of Influenza B lineages initiated in January 2016.

<sup>ψ</sup>rRT-PCR result of four samples were equivocal positive for Influenza A.

<sup>γ</sup>One sample collected in June 2013 and another sample collected in June 2017 were co-infected with both A(H3) and A(H1N1)pdm09.

<sup>λ</sup>Three samples were co-infected with both Influenza B (Yamagata lineage) and Influenza B (Victoria lineage), another ten samples were unsubtypeable.

<sup>‡</sup>Three samples were co-infected with both Influenza A(H1N1)pdm09 and Influenza B (Victoria lineage).

<sup>ι</sup>One sample collected in May 2019 was co-infected with both Influenza A(H3) and Influenza B (Victoria lineage).

<sup>†</sup>Surveillance activities ended at LAMB (Dinajpur) and BBMH (Chittagong) in May 2016.

<sup>γ</sup>Surveillance activities ended at DNMCH (Dhaka), CBMCH (Mymensingh), SZRMCH (Bogura) and JGH (Jessore) in October 2017.

<sup>‡</sup>Surveillance activities reinitiated at Cumilla Medical College Hospital (CuMCH), Cumilla in January 2018.

<sup>γ‡</sup>Surveillance activities reinitiated at Jashore 250 bed General Hospital (JGH), Jashore in December 2018.

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

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

<sup>φ</sup> Intensive care units (ICU) surveillance discontinued in January 2019.

\*One sample from CuMCH (Cumilla) and two samples from KMCH (Khulna) collected in November 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

<sup>ι</sup>Nine samples (one each from JIMCH, JRRMCH and MARMCH and two each from RMCH, KMCH and SBMCH) collected in December 2019 were not true positive for influenza A and were considered as inconclusive result. The result will be confirmed with further test through viral culture.

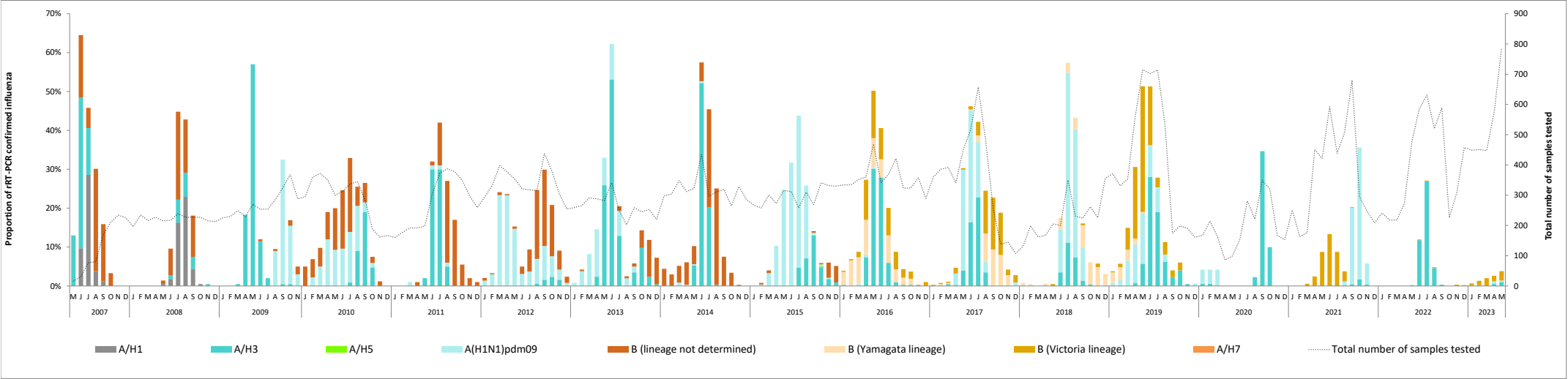
Outpatient ILI surveillance reinitiated at JRRMCH (Sylhet), CMCH (Chattogram) and MARMCH (Dinajpur) in November 2022.

Outpatient ILI surveillance reinitiated at JIMCH (Kishoregonj) and JGH (Jashore) in December 2022.

# Hospital based influenza surveillance

## Influenza seasonality graph

### May 2007 - May 2023



Note: Determination of Influenza B lineages initiated in January 2016

**Hospital based influenza surveillance**  
**Influenza seasonality graph**  
**Week 22 of 2022 to week 21 of 2023**

