



Hospital Based Rotavirus Surveillance in Children < 5 years of age and  
Intussusception Surveillance in Children < 2 years of age (HBRIS) in Bangladesh

Monthly Report, June 2023



◆ Name, location and starting month of HBRIS hospitals

Sl. No.	Name of the Hospitals	Location	Surveillance start	Current status
01.	Rajshahi Medical College Hospital (RMCH)	Rajshahi	July'12	Ongoing
02.	Jahurul Islam Medical College Hospital (JIMCH)	Kishoregonj	July'12	Ongoing
03.	Jalalabad Ragib-Rabeya Medical College Hospital (JRRMCH)	Sylhet	July'12	Ongoing
04.	World Mission Prayer League (LAMB)	Dinajpur	February'13	Closed in June'15
05.	Bangabandhu Memorial Hospital (BBMH)	Chattogram	February'13	Closed in Septemer'19
06.	Jashore General Hospital (Jashore)	Jashore	August'13	Ongoing
07.	Sher-e- Bangla Medical College Hospital (SBMCH)	Barishal	August'13	Ongoing
08.	Rangpur Medical College Hospital (RpMCH)	Rangpur	January'16	Ongoing
09.	Chattogram Medical College Hospital (CMCH)	Chattogram	Septemer'19	Ongoing

◆ Proportion of children aged <5 years hospitalized with acute gastroenteritis (AGE) with evidence of rotavirus infection during June 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	40	10	2(20.00)
JIMCH	48	12	5(41.57)
JRRMCH	8	2	0(0.00)
JGH	32	8	2 (25.00)
SBMCH	104	26	13(50.00)
RpMCH	44	11	1(9.09)
CMCH	56	14	5(35.71)
<b>Cumulative Total</b>	<b>332</b>	<b>83</b>	<b>28(33.73)</b>

◆ Number of intussusception cases aged <2 years during June 2023 by hospital

Hospital Name	Intussusception confirmed***
RMCH	3
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	0
RpMCH	0
CMCH	2
<b>Cumulative Total</b>	<b>5</b>

◆ Distribution of acute gastroenteritis (AGE) & rotavirus cases by age group during June 2023

Age group (in months)	Rotavirus		
	AGE (N=332)	Sampled (N=83)	Positive (%) (N=28)
0-5	49	12	5(41.67)
6-11	131	36	8(22.22)
12-17	60	13	7(53.85)
18-23	36	11	4(36.36)
24-59	56	11	4(36.36)
<b>Cumulative Total</b>	<b>332</b>	<b>83</b>	<b>28(33.73)</b>

\*Acute Gastroenteritis (AGE)-  $\geq 3$  watery or looser than normal or  $\geq 1$  episode of forceful vomiting within a 24-hour period, with symptoms lasting  $\leq 7$  days. \*\*Every 4th suspected case (in case of LAMB hospital every case). \*\*\*Child under 2 years who is admitted in selected hospitals & meet the level 1 or 2 or 3, Brighton Collaboration diagnostic criteria (either by clinical/ surgical/ and/or radiological and/or autopsy criteria).

◆ Distribution of intussusception cases by age group during June 2023

Age group (in months)	Intussusception confirmed
0-5	2
6-11	3
12-17	0
18-23	0
24-59	0
<b>Cumulative Total</b>	<b>5</b>

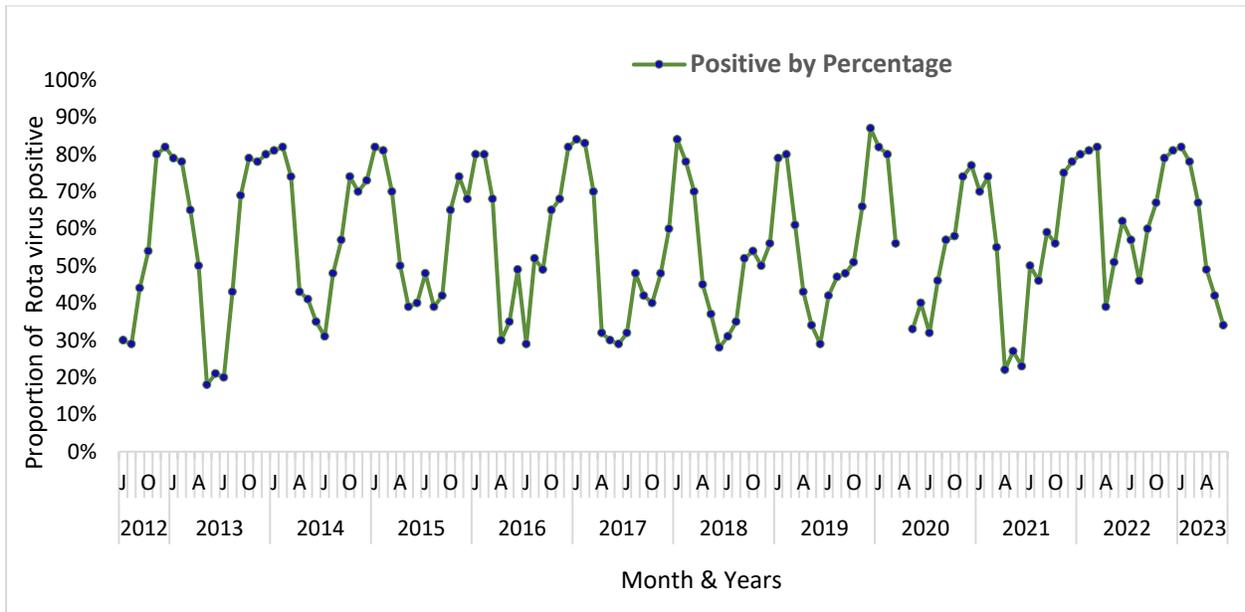
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during June 2023

Sex	AGE	Sampled	Positive (%)
Male	220	57	20(35.09)
Female	112	26	8(30.77)

◆ Distribution of intussusception cases by sex during June 2023

Sex	Intussusception confirmed
Male	4
Female	1

◆ Proportion of hospitalized acute gastroenteritis cases with evidence of rotavirus infection, by months and years



HBRIS activities has been postponed during the period of 1<sup>st</sup> April 2020 to 15<sup>th</sup> May 2020 due to Pandemic COVID-19

◆ Number of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus positivity by hospital (January '23 to June '23)

Hospital	RMCH		JIMCH		JRRMCH		JGH		SBMCH		RpMCH		CMCH		Total Cases		
	Sampled	Positive	Sampled	Positive	%												
Jan'23	29	27	23	18	13	6	35	29	30	24	31	26	36	31	197	161	81.73
Feb'23	20	17	21	16	10	8	24	18	29	21	32	26	16	13	152	119	78.29
Mar'23	18	13	13	10	9	5	31	24	32	20	25	16	22	13	150	101	67.33
Apr'23	17	11	11	4	5	2	15	6	25	15	13	6	21	8	107	52	48.60
May'23	15	6	10	4	5	1	12	6	33	22	12	3	30	7	117	49	41.88
June'23	10	2	12	5	2	0	8	2	26	13	11	1	14	5	83	28	33.73
Total	109	76	90	57	44	22	125	85	175	115	124	78	139	77	806	510	63.27

◆ Proportion of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus infection including number of deaths by hospital July'12 to June'23

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17068	4170	2539(61%)	3
JIMCH	9808	2447	1569(64%)	1
JRRMCH	8536	2116	1395(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6300	1582	934(59%)	-
SBMCH	13428	3362	2163(64%)	-
RpMCH	5179	1289	782(61%)	-
CMCH	3716	923	553(60%)	-
Cumulative Total	63785	16377	9985(61%)	5**

\*\* Last Rota associated death case was reported in 2015.

◆ Number of intussusception cases aged < 2 years by hospital July'12 to June '23

Hospital Name	Intussusception confirmed
RMCH	271
JIMCH	27
JRRMCH	67
LAMB	-
BBMH	10
JGH	8
SBMCH	53
RpMCH	89
CMCH	198
Cumulative Total	762