



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

Monthly Report, May 2024



◆ 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 May 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	93	24	7(29.17)
JIMCH	48	12	4(33.33)
JRRMCH	24	6	0(0)
JGH	43	10	5(50.00)
SBMCH	124	31	23(74.19)
RpMCH	78	19	2(10.53)
CMCH	100	25	6(24.00)
<b>Cumulative Total</b>	<b>510</b>	<b>127</b>	<b>47(37.01)</b>

◆ Number of intussusception cases aged <2 years during May 2024 by hospital

Hospital Name	Intussusception confirmed***
RMCH	1
JIMCH	1
JRRMCH	0
JGH	1
SBMCH	0
RpMCH	0
CMCH	7
<b>Cumulative Total</b>	<b>10</b>

◆ Distribution of acute gastroenteritis (AGE) & rotavirus cases by age group during May 2024

Age group (in months)	Rotavirus		
	AGE (N=510)	Sampled (N=127)	Positive (%) (N=47)
0-5	228	57	20(35.09)
6-11	140	35	13(37.14)
12-17	104	26	13(50.00)
18-23	24	6	1(16.67)
24-59	14	3	0(0)
<b>Cumulative Total</b>	<b>510</b>	<b>127</b>	<b>47(37.01)</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 May 2024

Age group (in months)	Intussusception confirmed
0-5	2
6-11	5
12-17	1
18-23	2
24-59	0
<b>Cumulative Total</b>	<b>10</b>

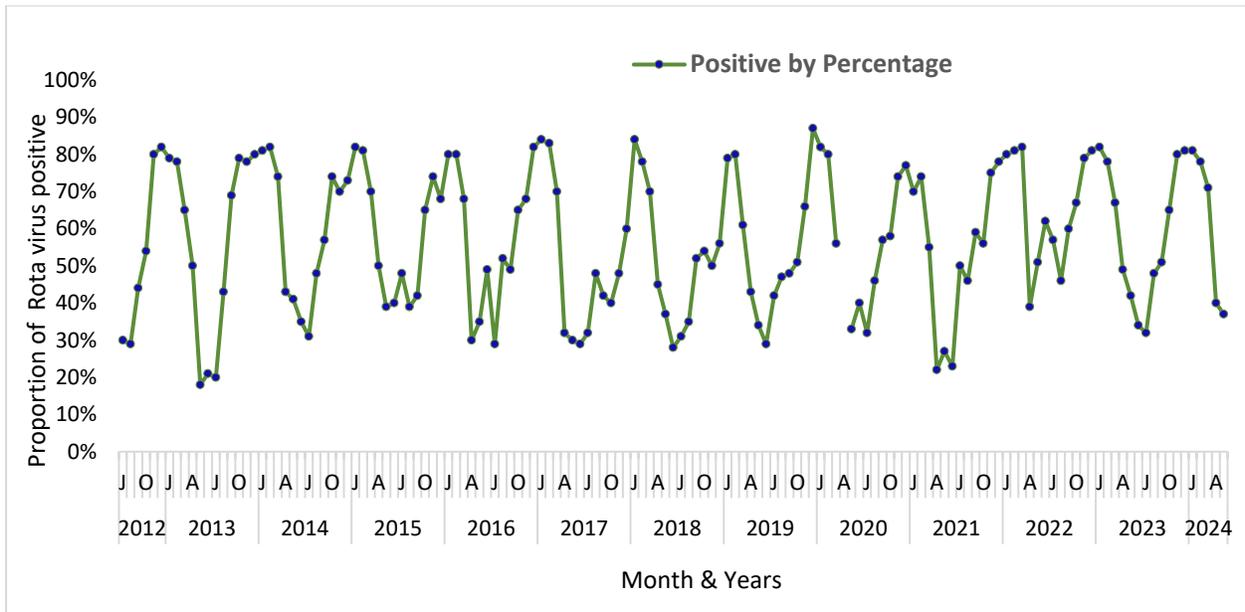
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during May 2024

Sex	AGE	Sampled	Positive (%)
Male	400	100	36(36.00)
Female	110	27	11(40.74)

◆ Distribution of intussusception cases by sex during May 2024

Sex	Intussusception confirmed
Male	6
Female	4

◆ 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 '24 to May'24)

Hospital	RMCH		JIMCH		JRRMCH		JGH		SBMCH		RpMCH		CMCH		Total Cases		
	Sampled	Positive	Sampled	Positive	%												
Jan'24	26	21	21	17	12	10	23	20	34	27	36	28	35	29	187	152	81.28
Feb'24	29	23	18	16	8	4	25	19	34	23	37	33	31	24	182	142	78.02
Mar'24	32	21	20	14	9	7	27	22	31	21	32	26	26	14	177	125	70.62
Apr'24	24	10	12	3	8	3	16	8	35	19	24	7	25	7	144	57	39.58
May'24	24	7	12	4	6	0	10	5	31	23	19	2	25	6	127	47	37.01
Total	135	82	83	54	43	24	101	74	165	113	148	96	142	80	817	523	64.01

◆ Proportion of children aged < 5 years with acute gastroenteritis (AGE) with evidence of rotavirus infection including number of deaths by hospital July'12 to May '24

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17949	4393	2674(61%)	3
JIMCH	10533	2621	1701(65%)	1
JRRMCH	8879	2201	1443(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6943	1744	1054(60%)	-
SBMCH	14714	3689	2373(64%)	-
RpMCH	6079	1520	930(61%)	-
CMCH	4860	1213	734(61%)	-
Cumulative Total	72290	18058	10932 (61%)	5**

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

◆ Number of intussusception cases aged < 2 years by hospital July'12 to May '24

Hospital Name	Intussusception confirmed
RMCH	287
JIMCH	31
JRRMCH	68
LAMB	-
BBMH	10
JGH	11
SBMCH	62
RpMCH	95
CMCH	250
Cumulative Total	852