



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

Monthly Report, March 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 March 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	128	32	21(65.63)
JIMCH	80	20	14(70.00)
JRRMCH	36	9	7(77.78)
JGH	108	27	22(81.48)
SBMCH	124	31	21(67.74)
RpMCH	128	32	26(81.25)
CMCH	104	26	14(53.85)
Cumulative Total	708	177	125(70.62)

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

Hospital Name	Intussusception confirmed***
RMCH	2
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	2
RpMCH	1
CMCH	7
Cumulative Total	12

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

Age group (in months)	Rotavirus		
	AGE (N=708)	Sampled (N=177)	Positive (%) (N=125)
0-5	56	11	7 (63.64)
6-11	272	85	57(67.06)
12-17	204	58	45(77.59)
18-23	72	14	8(57.14)
24-59	104	9	8(88.89)
Cumulative Total	708	177	125(70.62)

*Acute Gastroenteritis (AGE)- ≥ 3 watery or looser than normal or ≥ 1 episode of forceful vomiting within a 24-hour period, with symptoms lasting ≤ 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 March 2024

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

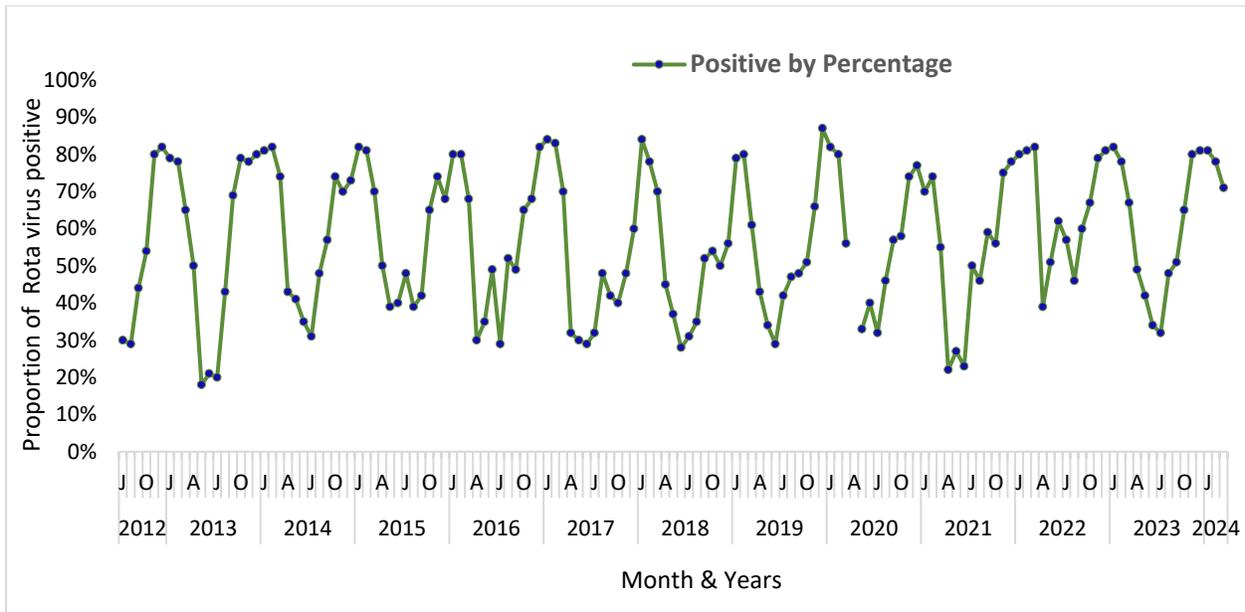
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during March 2024

Sex	AGE	Sampled	Positive (%)
Male	426	107	74(69.16)
Female	282	70	51(72.86)

◆ Distribution of intussusception cases by sex during March 2024

Sex	Intussusception confirmed
Male	10
Female	2

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



HBRIS activities has been postponed during the period of 1st April 2020 to 15th 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 March'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
Total	87	65	59	47	29	21	75	61	99	71	105	87	92	67	546	419	76.73

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17757	4345	2657(61%)	3
JIMCH	10437	2607	1694(65%)	1
JRRMCH	8823	2187	1440(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6836	1718	1036(60%)	-
SBMCH	14450	3623	2331(64%)	-
RpMCH	5905	1475	921(62%)	-
CMCH	4660	1163	721(62%)	-
Cumulative Total	71201	17787	10828 (61%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	284
JIMCH	30
JRRMCH	68
LAMB	-
BBMH	10
JGH	10
SBMCH	60
RpMCH	93
CMCH	237
Cumulative Total	830