



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

Monthly Report, January 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 January 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled**	Positive (%)
RMCH	117	29	27(93.10)
JIMCH	91	23	18(78.26)
JRRMCH	52	13	6(46.15)
JGH	140	35	29(82.86)
SBMCH	120	30	24(80.00)
RpMCH	124	31	26(83.87)
CMCH	144	36	31(86.11)
<b>Cumulative Total</b>	<b>788</b>	<b>197</b>	<b>161(81.73)</b>

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

Hospital Name	Intussusception confirmed***
RMCH	5
JIMCH	1
JRRMCH	0
JGH	1
SBMCH	0
RpMCH	0
CMCH	5
<b>Cumulative Total</b>	<b>12</b>

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

Age group (in months)	Rotavirus		
	AGE (N=788)	Sampled (N=197)	Positive (%) (N=161)
0-5	50	10	7(70.00)
6-11	262	76	63(82.89)
12-17	273	79	63(79.75)
18-23	99	21	18(85.71)
24-59	99	11	10(90.91)
<b>Cumulative Total</b>	<b>788</b>	<b>197</b>	<b>161(81.73)</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 January 2023

Age group (in months)	Intussusception confirmed
0-5	2
6-11	4
12-17	4
18-23	2
24-59	0
<b>Cumulative Total</b>	<b>12</b>

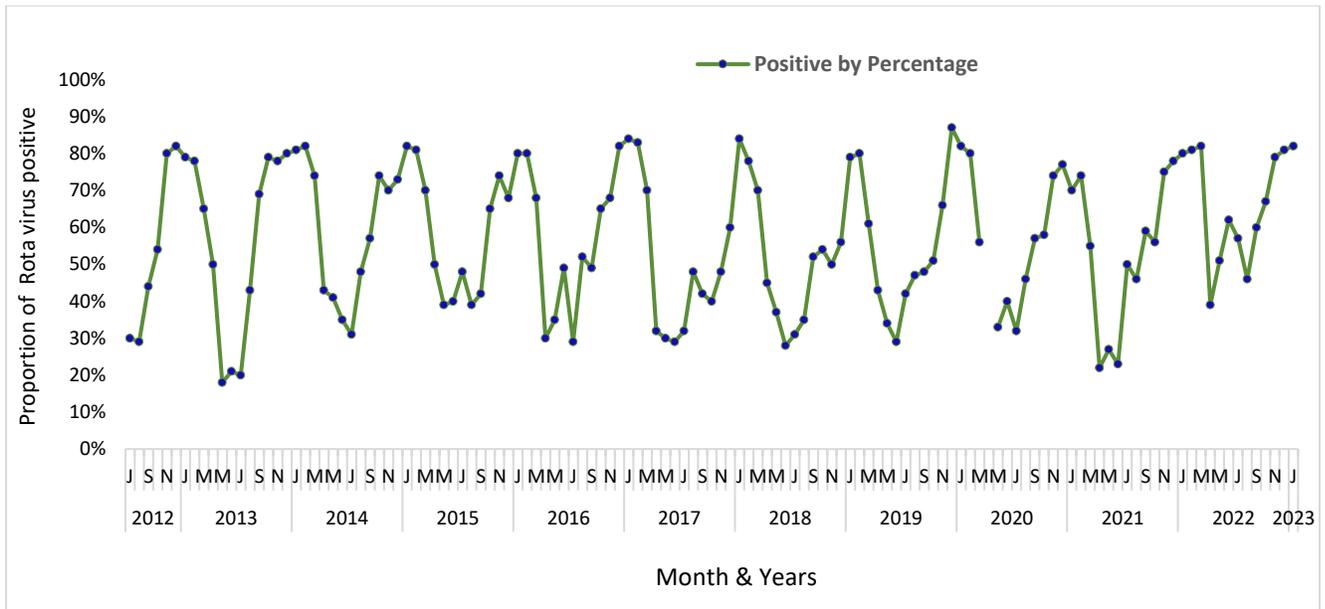
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during January 2023

Sex	AGE	Sampled	Positive (%)
Male	509	132	109 (82.58)
Female	279	65	52 (80.00)

◆ Distribution of intussusception cases by sex during January 2023

Sex	Intussusception confirmed
Male	11
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)

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
Total	29	27	23	18	13	6	35	29	30	24	31	26	36	31	197	161	81.73

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	16747	4090	2492(61%)	3
JIMCH	9542	2380	1530(64%)	1
JRRMCH	8412	2085	1379(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	5940	1492	878(59%)	-
SBMCH	12848	3217	2072(64%)	-
RpMCH	4807	1196	738(62%)	-
CMCH	3303	828	507(61%)	-
Cumulative Total	61349	15768	9636(61%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	265
JIMCH	27
JRRMCH	66
LAMB	-
BBMH	10
JGH	8
SBMCH	51
RpMCH	88
CMCH	187
Cumulative Total	741