



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 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 January 2024 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	104	26	21(80.76)
JIMCH	84	21	17(80.95)
JRRMCH	48	12	10(83.33)
JGH	92	23	20(86.95)
SBMCH	136	34	27(79.41)
RpMCH	144	36	28(77.77)
CMCH	140	35	29(82.85)
<b>Cumulative Total</b>	<b>748</b>	<b>187</b>	<b>152(81.28)</b>

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

Hospital Name	Intussusception confirmed***
RMCH	0
JIMCH	2
JRRMCH	0
JGH	0
SBMCH	1
RpMCH	0
CMCH	8
<b>Cumulative Total</b>	<b>11</b>

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

Age group (in months)	Rotavirus		
	AGE (N=748)	Sampled (N=187)	Positive (%) (N=152)
0-5	20	5	2(40.00)
6-11	340	85	66 (77.64)
12-17	296	74	65(87.83)
18-23	56	14	11(78.57)
24-59	36	9	8(88.88)
<b>Cumulative Total</b>	<b>748</b>	<b>187</b>	<b>152(81.28)</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 2024

Age group (in months)	Intussusception confirmed
0-5	2
6-11	4
12-17	4
18-23	1
24-59	0
<b>Cumulative Total</b>	<b>11</b>

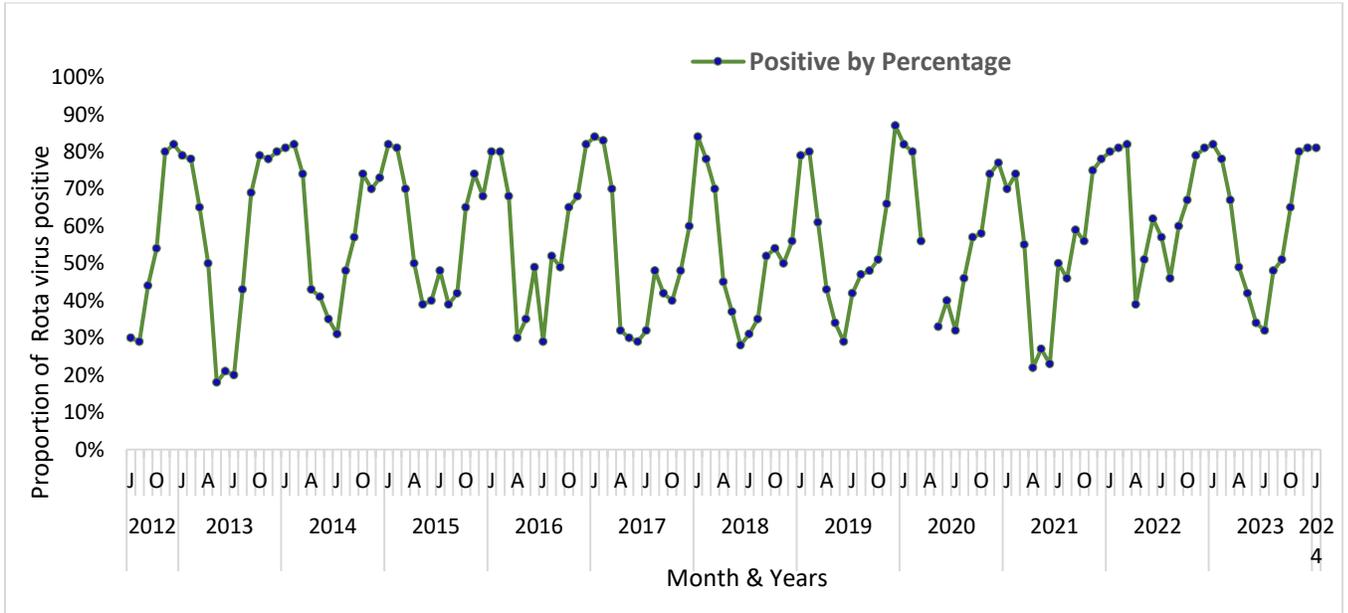
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during January 2024

Sex	AGE	Sampled	Positive (%)
Male	500	125	99(79.2)
Female	248	62	53(85.48)

◆ Distribution of intussusception cases by sex during January 2024

Sex	Intussusception confirmed
Male	7
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)

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
Total	26	21	21	17	12	10	23	20	34	27	36	28	35	29	187	152	81.28

◆ 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'24

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17536	4284	2613(61%)	3
JIMCH	10295	2569	1664(65%)	1
JRRMCH	8756	2171	1429(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6636	1666	993(60%)	-
SBMCH	14210	3558	2287(64%)	-
RpMCH	5649	1406	862(61%)	-
CMCH	4448	1106	673(61%)	-
Cumulative Total	69863	17428	10561 (61%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	282
JIMCH	29
JRRMCH	68
LAMB	-
BBMH	10
JGH	10
SBMCH	57
RpMCH	92
CMCH	224
Cumulative Total	811