



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 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 May 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled	Positive (%)
RMCH	60	15	6(40.00)
JIMCH	40	10	4(40.00)
JRRMCH	20	5	1(20.00)
JGH	48	12	6(50.00)
SBMCH	132	33	22(66.67)
RpMCH	48	12	3(25.00)
CMCH	120	30	7(23.33)
Cumulative Total	468	17	49(41.88)

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

Hospital Name	Intussusception confirmed***
RMCH	1
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	0
RpMCH	1
CMCH	1
Cumulative Total	3

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

Age group (in months)	Rotavirus		
	AGE (N=468)	Sampled (N=117)	Positive (%) (N=49)
0-5	36	4	1(25.00)
6-11	198	53	30(56.60)
12-17	85	27	11(40.74)
18-23	57	16	3(18.75)
24-59	92	17	4(23.53)
Cumulative Total	468	117	49(41.88)

*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 May 2023

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

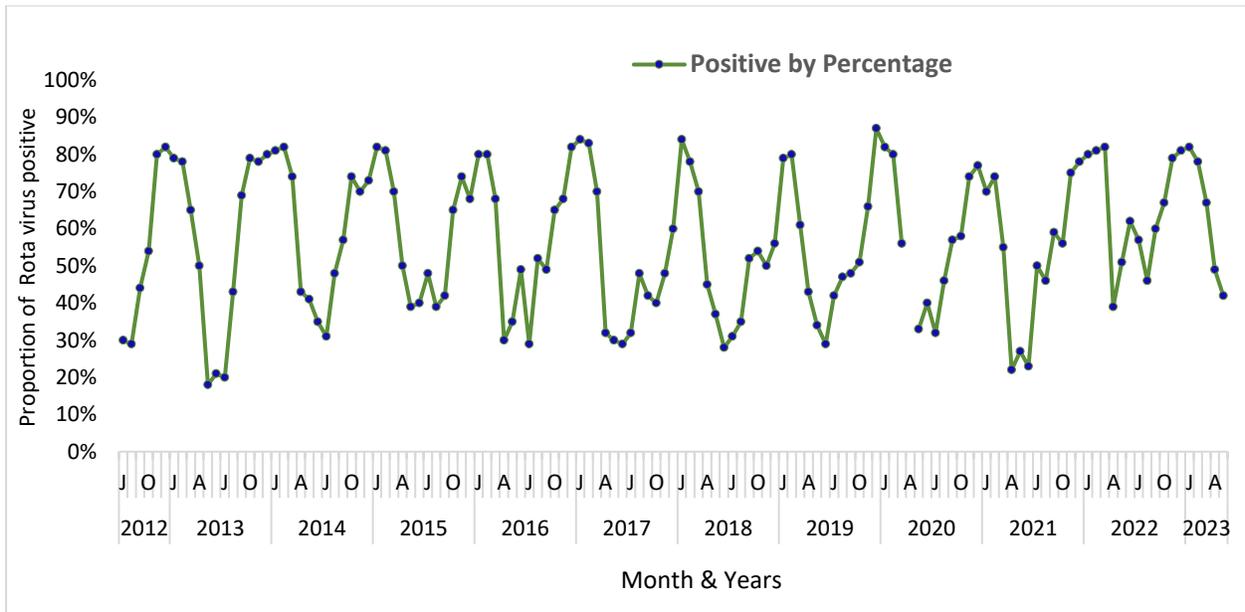
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during May 2023

Sex	AGE	Sampled	Positive (%)
Male	306	80	33(41.25)
Female	162	37	16(43.24)

◆ Distribution of intussusception cases by sex during May 2023

Sex	Intussusception confirmed
Male	2
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 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 '23 to May '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
Total	99	74	78	52	42	22	117	83	149	102	113	77	125	72	723	482	66.67

◆ 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 '23

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	17028	4160	2537(61%)	3
JIMCH	9760	2435	1564(64%)	1
JRRMCH	8528	2114	1395(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6268	1574	932(59%)	-
SBMCH	13324	3336	2150(64%)	-
RpMCH	5135	1278	781(61%)	-
CMCH	3660	919	548(60%)	-
Cumulative Total	63453	16294	9957(61%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	268
JIMCH	27
JRRMCH	67
LAMB	-
BBMH	10
JGH	8
SBMCH	53
RpMCH	89
CMCH	196
Cumulative Total	757