



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

Monthly Report, February 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 February 2023 by hospital

Hospital Name	Rotavirus		
	AGE*	Sampled**	Positive (%)
RMCH	80	20	17(85.00)
JIMCH	82	21	16(76.19)
JRRMCH	40	10	8(80.00)
JGH	96	24	18(75.00)
SBMCH	116	29	21(72.41)
RpMCH	128	32	26(81.25)
CMCH	65	16	13(81.25)
<b>Cumulative Total</b>	<b>607</b>	<b>152</b>	<b>119(78.29)</b>

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

Hospital Name	Intussusception confirmed***
RMCH	0
JIMCH	0
JRRMCH	0
JGH	0
SBMCH	0
RpMCH	0
CMCH	3
<b>Cumulative Total</b>	<b>3</b>

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

Age group (in months)	Rotavirus		
	AGE (N=607)	Sampled (N=152)	Positive (%) (N=119)
0-5	40	8	4 (50.00)
6-11	226	67	54(80.60)
12-17	178	50	39(78.00)
18-23	70	15	12(80.00)
24-59	93	12	10(83.33)
<b>Cumulative Total</b>	<b>607</b>	<b>152</b>	<b>119(78.29)</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 February 2023

Age group (in months)	Intussusception confirmed
0-5	0
6-11	1
12-17	2
18-23	0
24-59	0
<b>Cumulative Total</b>	<b>3</b>

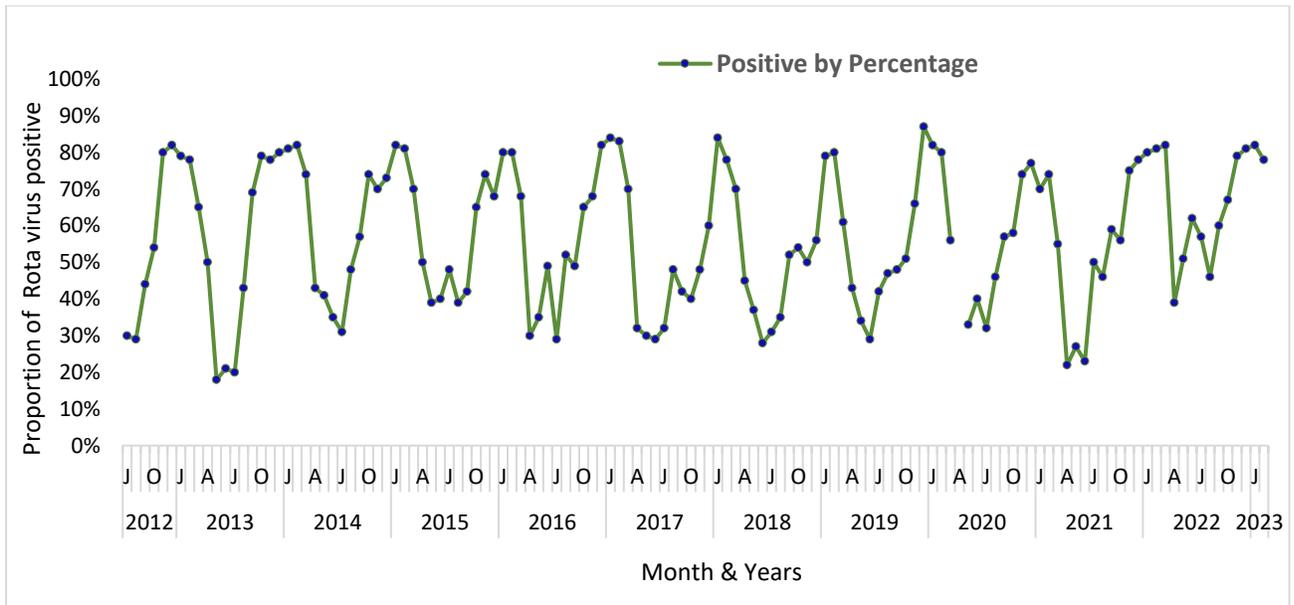
◆ Distribution of acute gastroenteritis (AGE) and rotavirus cases by sex during February 2023

Sex	AGE	Sampled	Positive (%)
Male	371	91	71(78.02)
Female	236	61	48(78.69)

◆ Distribution of intussusception cases by sex during February 2023

Sex	Intussusception confirmed
Male	1
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 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 to February '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
Total	49	44	44	34	23	14	59	47	59	45	63	52	52	44	349	280	80.22

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

Hospital Name	Rotavirus			
	AGE	Sampled	Positive (%)	Rotavirus associated deaths
RMCH	16827	4110	2507(61%)	3
JIMCH	9624	2401	1546(64%)	1
JRRMCH	8452	2095	1387(66%)	-
LAMB	178	142	95(63%)	1
BBMH	2155	532	335(63%)	-
JGH	6036	1516	896(59%)	-
SBMCH	12964	3246	2093(64%)	-
RpMCH	4935	1228	756(62%)	-
CMCH	3368	846	520(61%)	-
Cumulative Total	61956	15920	9755(61%)	5**

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

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

Hospital Name	Intussusception confirmed
RMCH	265
JIMCH	27
JRRMCH	66
LAMB	-
BBMH	10
JGH	8
SBMCH	51
RpMCH	88
CMCH	190
Cumulative Total	744