

**NATIONAL INSTITUTE OF EPIDEMIOLOGY, CHENNAI-77**  
**DHR/ICMR Virus Research and Diagnostic Laboratory Network (VRDLN)**

**December 2019 - REPORT**

Functional VRDLs(n=75)

	Medical college hospital	Disease Cluster	Total
Total no. of patients investigated by VRDLs	22587	146	22733
Total no. of samples tested	23053	146	23199
Total no. of tests run	39936	154	40090
Total cases positives (%)	5187 (23%)	85 (58%)	5272 (23%)

**Table 1: Suspected outbreaks diagnosed by VRDLs December 2019 (n=12)**

VRDL, State	Districts	Etiological Agent	No. of outbreaks	Positive Cases	Total cases tested
03. KGMU, Lucknow, UP	Siddharthnagar	Varicella Zoaster Virus	1	4	4
04. RMRC, Bhubaneswar, Odisha	Jajpur	Chikungunya	1	22	30
	Jajpur, Kalahandi	Varicella Zoaster Virus	2	8	17
08. NIV Field Unit, Alappuzha, Kerala	Thiruvananthapuram	Chikungunya	1	5	5
10. RIMS, Ranchi, Jharkhand	Sahibganj	Japanese Encephalitis	1	2	3
	Hazaribag	Varicella Zoaster Virus	1	3	3
18. GMC, Jammu, J&K	Kathua	Hepatitis A virus	1	7	7
20. BJ Medical College, Ahmadabad, Gujarat	Mehsana	Measles	1	2	4
32. GMC, Tiruvanandapuram, Kerala	Thiruvananthapuram	Chikungunya	1	8	13
54. MGM Medical College, Dimna Chowk, Jamshedpur	East Singhbhum	Varicella Zoaster Virus	1	2	5
85. Government Medical College, Miraj, Maharashtra	Sangli	Dengue	1*	16	43

\* Indicates continuation of previous outbreak

**Table 2: Routine virus tested at VRDLs during December 2019 (n=40090)**

<b>Virus</b>	<b>Positive</b>	<b>%</b>	<b>Total Tested</b>
Dengue	2778	20.8%	13384
Hepatitis B virus (HBV)	376	8.4%	4474
Hepatitis C virus (HCV)	290	7.1%	4072
Chikungunya	846	25.3%	3340
Hepatitis A virus (HAV)	259	14.8%	1747
Hepatitis E virus (HEV)	165	9.7%	1707
Orientia tsutsugamushi (Scrub typhus)	357	21.2%	1685
Influenza B	22	1.6%	1347
Influenza A Pandemic H1N1	28	2.1%	1332
Japanese Encephalitis (JE)	85	8.9%	954
Leptospira	91	12.6%	722
Influenza A	19	2.8%	683
Influenza A H3N2	15	2.5%	605
Cytomegalovirus (CMV)	69	14.0%	492
Herpes simplex virus (HSV)	26	6.1%	429
Rubella Virus	107	28.7%	373
Herpes simplex virus -1 (HSV-1)	6	2.0%	300
Enterovirus	12	4.7%	258
Respiratory Syncytial Virus (RSV)	52	20.8%	250
Measles	51	22.7%	225
Human metapneumovirus (HMPV)	10	5.5%	182
Herpes simplex virus -2 (HSV-2)	5	3.1%	161
Parvovirus	30	19.2%	156
Zika virus	0	0.0%	153
Adeno Virus	20	13.6%	147
Respiratory Syncytial virus A (RSVA)	20	14.3%	140
Respiratory Syncytial virus B (RSVB)	7	5.0%	139
Epstein-Barr-virus (EBV)	21	15.7%	134
Rhinovirus	10	9.8%	102
Varicella Zoster Virus (VZV)	30	34.1%	88
Rota Virus	29	36.7%	79
Parainfluenza 1/2/3/4	3	5.8%	52
Hepatitis D virus (HDV)	0	0.0%	51
Human papillomavirus	11	33.3%	33
Mumps virus	10	40.0%	25
West Nile virus (WNV)	2	12.5%	16
Coronavirus	1	6.7%	15
Not in the list	1	8.3%	12
Nipah virus	0	0.0%	5
Influenza B Victoria	0	0.0%	4
Influenza B Yamagata	0	0.0%	3
Bocaparvovirus	0	0.0%	2
Human parechovirus (HPeV)	0	0.0%	2
Influenza A-H2N2	1	50.0%	2
Other Influenza	0	0.0%	2
Astrovirus	0	0.0%	1
Coxsackievirus	0	0.0%	1

Influenza A untypable	0	0.0%	1
JC	0	0.0%	1
Norovirus	0	0.0%	1
Sapovirus	0	0.0%	1
Total	5865	14.6%	40090