

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

**January 2019 - REPORT**

**DHR - Functional VRDLs (n=45)**

	Medical college hospital	Outbreaks (n=11)	Total
Total no. of patients investigated by VRDLs	11247	171	11418
Total no. of samples tested	11506	171	11677
Total no. of tests run	19910	256	20166
Total cases positives (%)	1866 (17%)	67 (39%)	1933 (17%)

**ICMR - Functional VRDLs (n=6)**

	Medical college hospital	Outbreaks (n=12)	Total
Total no. of patients investigated by VRDLs	3044	86	3130
Total no. of samples tested	3257	86	3343
Total no. of tests run	8447	123	8570
Total cases positives (%)	614 (20%)	71 (83%)	685 (22%)

**Table 1A: Suspected outbreaks diagnosed by DHR-VRDLs January 2019 (n=11)**

VRDL, State	Districts	Etiological Agent	No. of outbreaks	Positive Cases	Total cases tested
03. KGMU, Lucknow, UP	Azamgarh	Hepatitis E virus	1	11	12
20. BJ Medical College, Ahmadabad, Gujarat	Rajkot	Measles	1	5	5
21. Patna MC, Patna, Bihar	Samastipur	Varicella Zoaster Virus	1	1	5
24. PGIMR, Chandigarh	Barnala, Ludhiana etc	Influenza A Pandemic H1N1	6	32	108
29. SVIMS, Tirupathi, AP	Chittoor	Influenza	1	13	34
31. Guwahati MC, Guwahati, Assam	Dhubri	Varicella Zoaster Virus	1	5	7

**Table 1B: Suspected outbreaks diagnosed by ICMR-VRDLs January 2019 (n=12)**

VRDL, State	Districts	Etiological Agent	No. of outbreaks	Positive Cases	Total cases tested
01. KMC Manipal, Karnataka	Udupi, Chitradurga	Japanese Encephalitis	2	2	2
	Shimoga, Hassan	Mumps virus	3	13	13
	Hassan, Davangere	Varicella Zoaster Virus	2	6	8
04. RMRC, Bhubaneswar, Odisha	Mayurbhanj, Nayagarh	Dengue	2	38	44
10. RIMS, Ranchi, Jharkhand	Dumka, East Singhbhum	Varicella Zoaster Virus	2	9	9
	Ranchi	Influenza A Pandemic H1N1	1	3	6

**Table 2 A: Routine virus tested at DHR - VRDLs during January 2019 (n=20166)**

<b>Virus tested</b>	<b>Positive</b>	<b>Positive %</b>	<b>Total Tested</b>
Dengue	265	5.8%	4587
Hepatitis C virus (HCV)	170	6.4%	2669
Hepatitis B virus (HBV)	322	13.2%	2435
Influenza A Pandemic H1N1	606	27.2%	2228
Influenza B	16	1.3%	1239
Chikungunya	93	8.3%	1120
Hepatitis A virus (HAV)	139	13.9%	1003
Hepatitis E virus (HEV)	103	10.6%	968
Influenza A	99	15.5%	640
Influenza A H3N2	48	8.7%	549
Herpes simplex virus (HSV)	14	3.1%	457
Japanese Encephalitis (JE)	29	7.1%	411
Cytomegalovirus (CMV)	28	10.1%	278
Epstein-Barr-virus (EbV)	21	11.8%	178
Zika virus	0	0.0%	158
Parvovirus	22	16.8%	131
Rubella Virus	7	5.6%	126
Adeno Virus	3	2.6%	116
Rota Virus	66	56.9%	116
Human metapneumovirus (HMPV)	6	5.7%	105
Rhinoviruses	3	2.9%	105
RSV (Respiratory Syncytial Virus)	0	0.0%	104
Measles	27	32.9%	82
Scrub Typhus	24	34.8%	69
orientia tsutsugamushi	3	5.3%	57
VZV/Varicella Zooster Virus	13	24.5%	53
Enterovirus	1	2.3%	43
Other Influenza	6	14.0%	43
HSV-2	1	3.3%	30
Parainfluenza A/B/C	1	4.5%	22
Human Boca virus	1	6.7%	15
Mumps virus	5	33.3%	15
Hepatitis D Virus (HDV)	0	0.0%	5
Human Parecho virus	0	0.0%	4
West Nile Virus	0	0.0%	3
Not in the list	1	50.0%	2
<b>Total</b>	<b>2143</b>	<b>10.6%</b>	<b>20166</b>

**Table 2 B: Routine virus tested at ICMR - VRDLs during January 2019 (n=8570)**

<b>Virus tested</b>	<b>Positive</b>	<b>Positive %</b>	<b>Total Tested</b>
Influenza A Pandemic H1N1	214	15.2%	1411
Influenza B	9	0.7%	1374
Influenza A H3N2	48	3.5%	1354
Dengue	89	9.3%	953
Hepatitis B virus (HBV)	69	13.6%	509
Hepatitis C virus (HCV)	11	2.4%	468
Kyasanur Forest Disease Virus	54	14.7%	367
Herpes simplex virus (HSV)	7	2.5%	284
HSV-2	5	1.8%	274
Japanese Encephalitis (JE)	14	5.8%	242
Chikungunya	6	3.8%	160
Cytomegalovirus (CMV)	26	20.2%	129
Mumps virus	45	38.5%	117
Rubella Virus	29	26.1%	111
VZV/Varicella Zoaster Virus	19	18.6%	102
Enterovirus	1	1.0%	100
Adeno Virus	8	9.5%	84
RSV (Respiratory Syncytial Virus)	3	4.5%	66
Hepatitis D Virus (HDV)	1	1.6%	64
Hepatitis A virus (HAV)	15	31.3%	48
Hepatitis E virus (HEV)	2	4.2%	48
Epstein-Barr-virus (EbV)	3	8.6%	35
Measles	6	17.1%	35
Rota Virus	11	39.3%	28
Parainfluenza A/B/C	1	4.0%	25
Human Parecho virus	0	0.0%	24
Rhinoviruses	2	8.3%	24
Human metapneumovirus (HMPV)	1	4.3%	23
Parvovirus	6	26.1%	23
Influenza A	14	66.7%	21
Not in the list	2	10.5%	19
Norovirus	3	20.0%	15
Astrovirus	2	15.4%	13
Zika virus	0	0.0%	7
Influenza A-H5N1	0	0.0%	4
Coronavirus	0	0.0%	3
coxsackieviruse	0	0.0%	2
Scrub Typhus	0	0.0%	2
Human Boca virus	0	0.0%	1
Nipah virus	0	0.0%	1
<b>Total</b>	<b>726</b>	<b>8.5%</b>	<b>8570</b>