

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

July 2016 - Report

| | |
|---|-------------------|
| Number of VRDLs functional | 35 |
| Suspected outbreaks diagnosed during July 2016 (table 1) | 17 |
| Medical College Hospital Routine Diagnostics & Suspected Outbreaks | |
| Total no. of patients investigated by VRDLs | 6040 |
| Total no. of samples tested | 6380 |
| Total no. of tests run | 11915 |
| Total cases positives (%) | 1595 (26%) |

Suspected outbreaks (17)
n=374

- 139 (37%) positives
- 412 samples
- 657 tests run

Medical college hospital-routine diagnostics
n=5666

- 1456 (26%) positives
- 5968 samples
- 11258 tests run

Table 1: Suspected outbreaks diagnosed by VRDLs July 2016 (n=17)

| Sl | State | Geographical area | | VRDLN | | Disease/syndrome (provisional/confirmed) | Total cases tested | Type of sample | Test conducted | Positive cases | Etiological agent |
|----|----------------|-------------------------------|----------------|---------------------|------------------------|--|--------------------|----------------|----------------|----------------|-------------------|
| | | Village | District | Institution | PI | | | | | | |
| 1 | Odisha | Janala, Kahalpada, Charibatia | Puri | RMRC, Bhubaneswar | Dr B Dwibedi | JE | 21 | Serum | IgM | 06 | JE |
| 2 | Odisha | Jagatpur, Balisahi, | Cuttak | RMRC, Bhubaneswar | Dr B Dwibedi | Dengue | 110 | Serum | IgM | 49 | Dengue virus |
| 3 | Chattisgarh | Badepara | Bastar | GMC, Jagdalpur | Dr Devajyothi Majumdar | Dengue | 19 | Serum | IgM/A D | 04 | Dengue virus |
| 4 | Chattisgarh | Mongrapal | Bastar | GMC, Jagdalpur | Dr Devajyothi Majumdar | Dengue | 56 | Serum | IgM/A D | 04 | Dengue virus |
| 5 | Chattisgarh | Khaspara | Bastar | GMC, Jagdalpur | Dr Devajyothi Majumdar | Dengue | 35 | Serum | IgM/A D | 03 | Dengue virus |
| 6 | Andhra Pradesh | Gajuwaka | Vishakhapatnam | AMC, Vishakhapatnam | Dr B M Krishna | Dengue | 05 | Serum | IgM | 02 | Dengue |
| 7 | Andhra Pradesh | Somalingapalem | Vishakhapatnam | AMC, Vishakhapatnam | Dr B M Krishna | Dengue | 55 | Serum | IgM | 19 | Dengue |

| Sl | State | Geographical area | | VRDLN | | Disease/syndrome (provisional/confirmed) | Total cases tested | Type of sample | Test conducted | Positive cases | Etiological agent |
|--------------|------------|-------------------|--------------------|------------------------------------|---------------|--|--------------------|--------------------|----------------|----------------|-------------------|
| | | Village | District | Institution | PI | | | | | | |
| 8 | Gujarat | Zarwani | Narmada | B J Medical College, Ahmadabad | Dr M M Vegad | Measles | 05 | Serum | IgM | 05 | Measles |
| 9 | Gujarat | Adri | Somnath | B J Medical College, Ahmadabad | Dr M M Vegad | Measles | 05 | Serum | IgM | 05 | Measles |
| 10 | Assam | Maibang | Dima Hasao | Guwahati Medical college, Guwahati | Dr Naba Kumar | Measles | 05 | Serum | IgM | 05 | Measles |
| 11 | Assam | Dhing | Nagaon | Guwahati Medical college, Guwahati | Dr Naba Kumar | Measles | 05 | Serum | IgM | 05 | Measles |
| 12 | Assam | Khliehriat | Jaintia Hills | Guwahati Medical college, Guwahati | Dr Naba Kumar | Measles | 05 | Serum | IgM | 05 | Measles |
| 13 | Chandigarh | Snehalya | Chandigarh | PGIMER, Chandigarh | Dr R K Ratho | VZV | 15 | Saliva/urine/serum | IgM/PCR | 06 | VZV |
| 14 | Chandigarh | Burail | Chandigarh | PGIMER, Chandigarh | Dr R K Ratho | VZV | 13 | Saliva/urine/serum | IgM/PCR | 06 | VZV |
| 15 | UP | Rahimabad | Bankenagar | KGMU, UP | Dr Amita Jain | VZV | 10 | Serum | IgM | 10 | VZV |
| 16 | Kerala | Poonthura | Thiruvananthapuram | GMC, Trivandrum | Dr Rema Devi | Dengue | 05 | Serum | IgM/AD | 03 | Dengue virus |
| 17 | Kerala | Kadakkal | Kollam | GMC, Trivandrum | Dr Rema Devi | Dengue | 05 | Serum | IgM | 02 | Dengue virus |
| Total | | | | | | | 374 | | | 139 | |

JE – Japanese Encephalitis; AD – Antigen Detection; PCR – Polymerase Chain Reaction; VZV – Varicella Zoster Virus

Table 2: Routine virus tested at various VRDLs in July 2016 (n=11915)

| Virus | Total test run | Positive % |
|-----------------------|----------------|------------|
| Dengue | 3989 | 16.1 |
| Hepatitis C virus | 1097 | 8.8 |
| Influenza A H1N1 | 709 | 24.0 |
| Influenza B | 681 | 5.7 |
| Hepatitis A virus | 566 | 13.1 |
| Influenza A H3N2 | 564 | 0.0 |
| Hepatitis E virus | 534 | 27.2 |
| Japanese Encephalitis | 531 | 19.6 |
| Hepatitis B virus | 342 | 18.1 |
| Herpes simplex virus | 297 | 5.7 |
| Chikungunya | 255 | 10.6 |
| Cytomegalovirus | 206 | 7.8 |
| Enterovirus | 205 | 3.9 |
| Influenza A | 202 | 23.8 |

| | | |
|------------------------------|-----|------|
| Rubella Virus | 167 | 7.2 |
| Adeno Virus | 163 | 3.7 |
| Herpes Simplex Virus (HSV-2) | 154 | 5.2 |
| Varicella Zoaster Virus | 139 | 6.5 |
| Respiratory Syncytial Virus | 105 | 16.2 |
| Norovirus | 95 | 4.2 |
| Epstein-Barr-Virus | 68 | 10.3 |
| Measles | 57 | 50.9 |
| West Nile | 51 | 0.0 |
| Rota Virus | 49 | 0.0 |
| Other Influenza | 37 | 0.0 |
| Parvovirus | 23 | 17.4 |

629 test were run for other viruses not mentioned in table