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Department of Health Research
Ministry of Health and Family Welfare
Government of India



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VIRUS RESEARCH AND DIAGNOSTIC LABORATORY NETWORK (VRDLN)

QUARTERLY BULLETIN OCTOBER- DECEMBER 2025

Summary of the Report

Network Expansion (October–December 2025)

- The network currently comprises 11 Regional-level VRDLs, 27 State-level VRDLs, and 127+ Medical College VRDLs across India

Key Findings (October–December 2025)

- During this quarter 2,53,158 samples were tested and 9,36,091 diagnostic tests were performed across the network. A total of 36,581 patients (14.8%) tested positive, with an overall test positivity of 71,210 (7.7%).
- The most frequently detected pathogens by syndrome were
 1. Dengue in acute fever and in haemorrhagic fever cases
 2. Scrub typhus in AES cases
 3. Hepatitis A in jaundice cases
 4. Influenza A in ARI/SARI cases
 5. Adenovirus in ADD cases
- A total of 57 suspected disease clusters were investigated in 2025 (compared to 41 in 2024). Major etiologies were identified through rapid laboratory confirmation, supporting timely public health response.
- The significant viral detections in disease cluster included Dengue, Varicella Zoster Virus (VZV), Hepatitis A, Scrub typhus (*Orientia tsutsugamushi*), Chikungunya, Norovirus, Mumps virus, Measles, Leptospira, Adenovirus.

Capacity Building and Quality assurance

- ICMR-NIV, Pune: Five training programs were conducted, and 96 personnel were trained. A total of 158 laboratories completed the EQA programs for Dengue IgM ELISA, Japanese Encephalitis IgM ELISA, and Chikungunya IgM ELISA, achieving 95% concordance.
- Inter-laboratory comparison program: 1,640 samples tested across 7 serological parameters, with participation from 36 VRDLs. Additionally, 81 Scientific & Technical Support were provided

Overall Impact

- The October–December 2025 quarter demonstrates strong laboratory throughput, effective outbreak detection, seasonal pathogen surveillance, quality assurance strengthening, and nationwide capacity building.



Cumulative Report

KPIs	From medical college referral	From disease cluster	Total
No. of patients tested	245,127	2,199	247,326
No. of samples tested	250,929	2,229	253,158
No. of tests done	926,325	9,766	936,091
No. of patients positive (%)	35,370 (14.2%)	1,211 (55.1%)	36,581 (14.8%)
No. of tests positive (%)	68,770 (7.4%)	2,440 (24.9%)	71,210 (7.7%)

Between October and December 2025, VRDLN enrolled 2,47,326 patients, tested 2,53,158 samples, and performed 9,36,091 diagnostic tests, identifying 36,581 (14.8%) patient-level positives and 71,210 (7.7%) test-level positives .

From medical college referral

Syndrome distribution

Syndrome	No. of patients tested
Acute fever	111,428
Jaundice	60,490
ARI/SARI	23,999
Haemorrhagic fever	12,729
Acute encephalitis syndrome (AES)	8,341
Acute diarrheal disease (ADD)	666
Others *	21,799

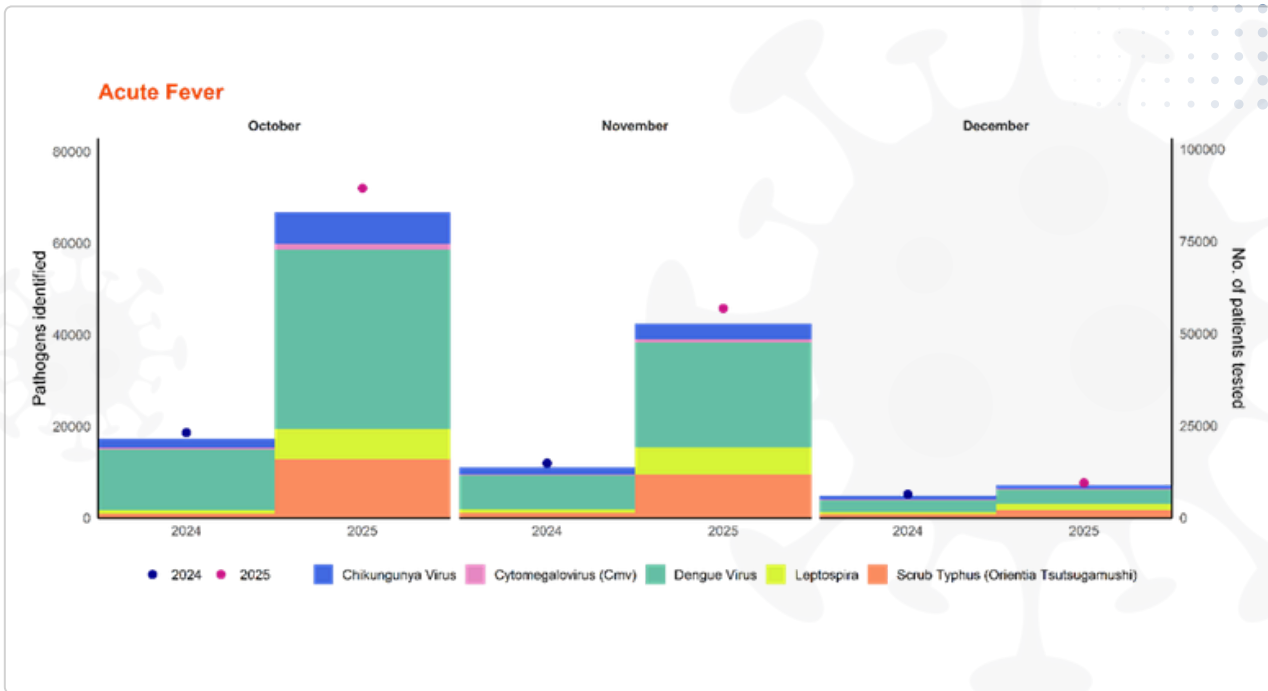
*Other syndromes- Acute Flaccid Paralysis, Conjunctivitis, Rash.,

***Disclaimer

1. Data downloaded from server on January, 2026

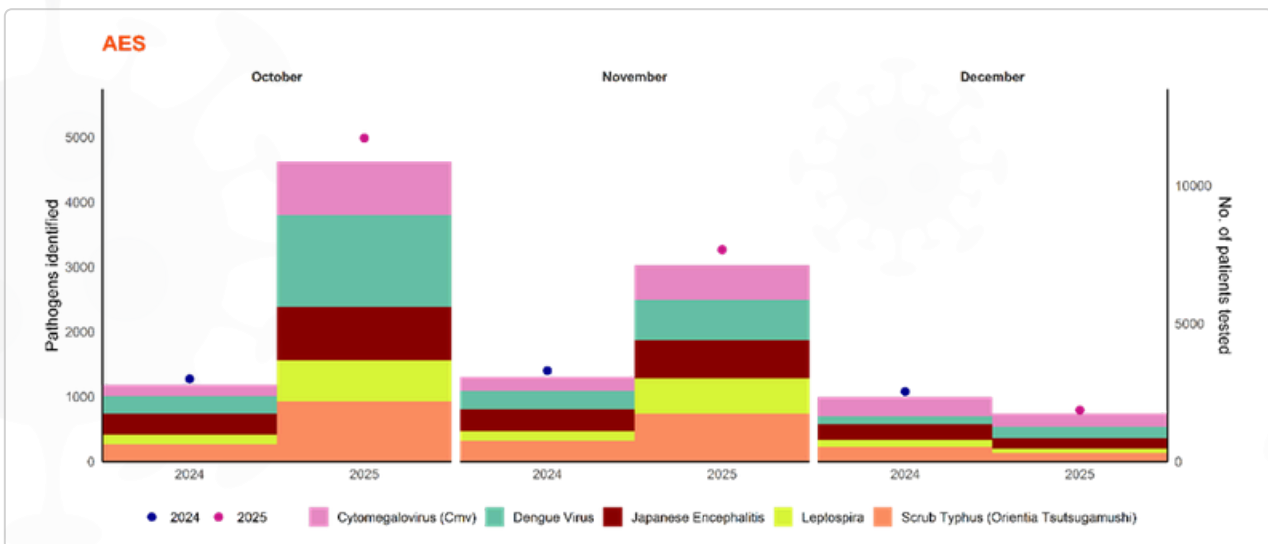
Top pathogens identified by major syndromes

Acute fever



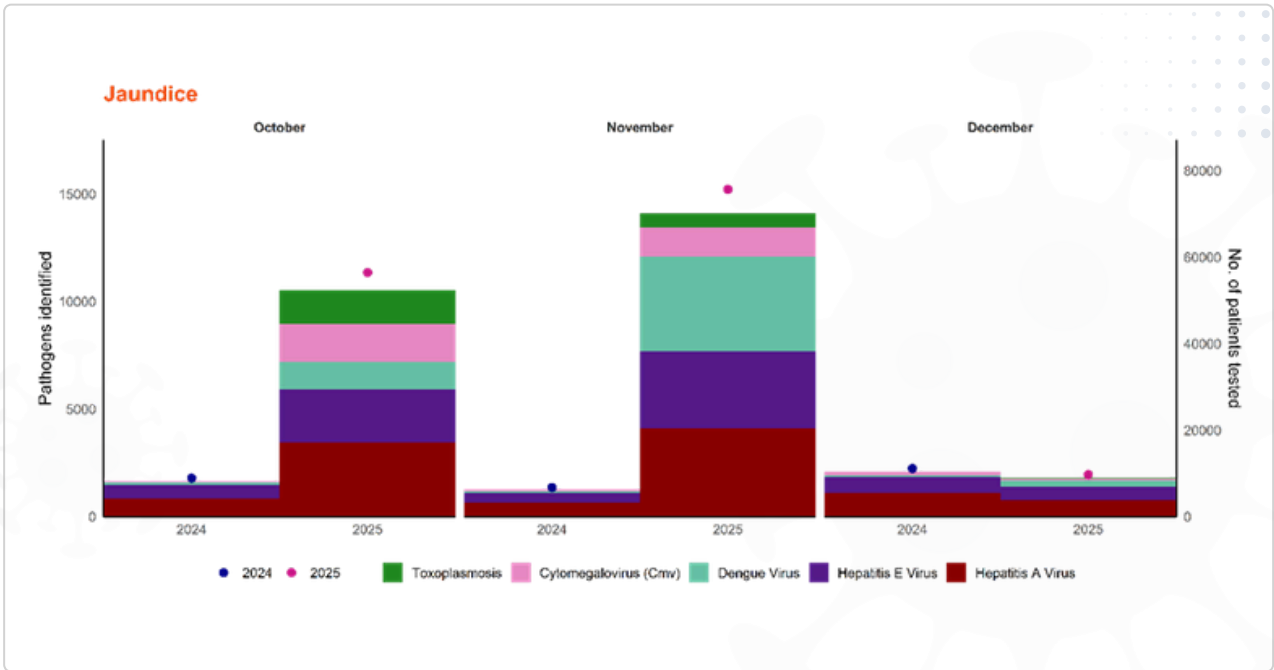
Among Acute fever cases, Dengue was the most frequently detected pathogen

Acute encephalitis syndrome (AES)



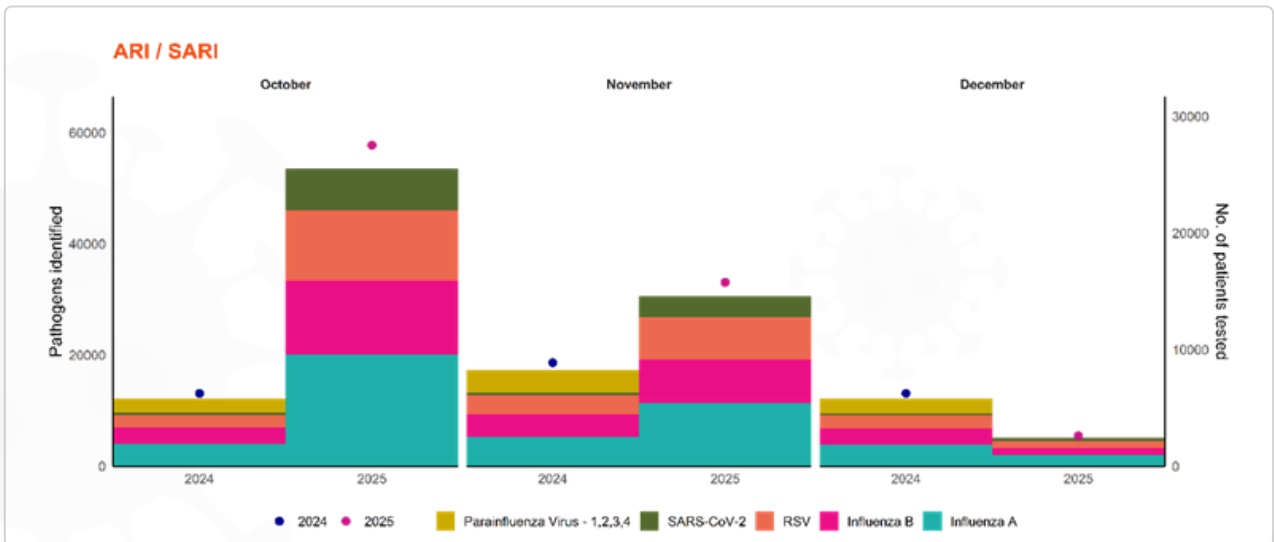
Among AES cases, Scrub Typhus was the most frequently detected pathogen

Jaundice



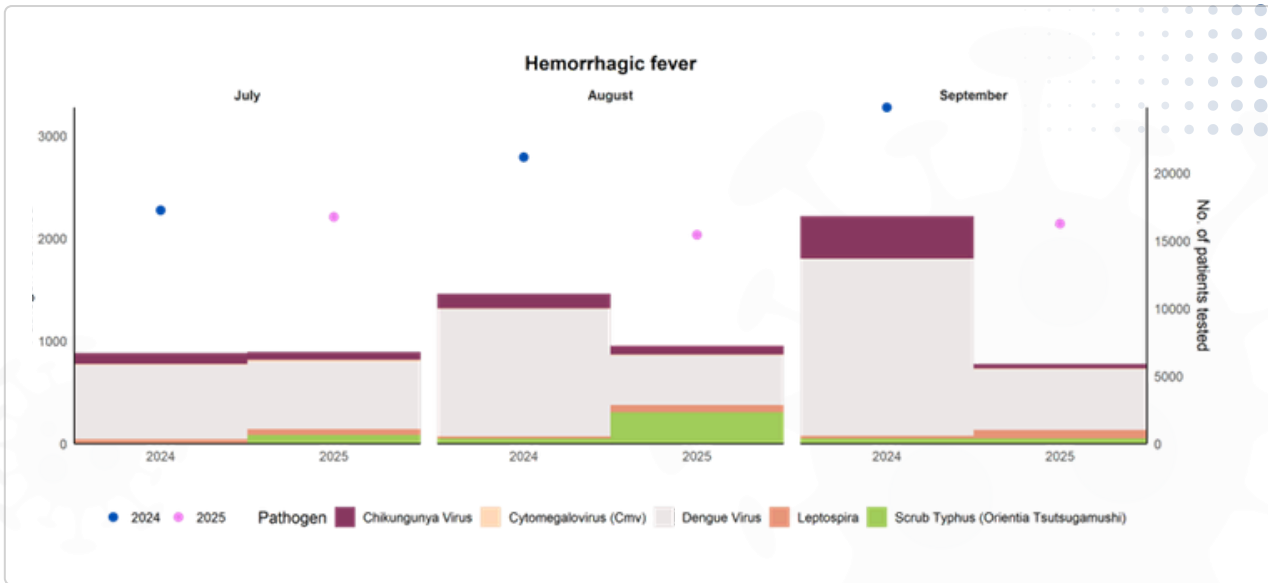
Among Jaundice cases, Hepatitis A was the most frequently detected pathogen

ARI/SARI



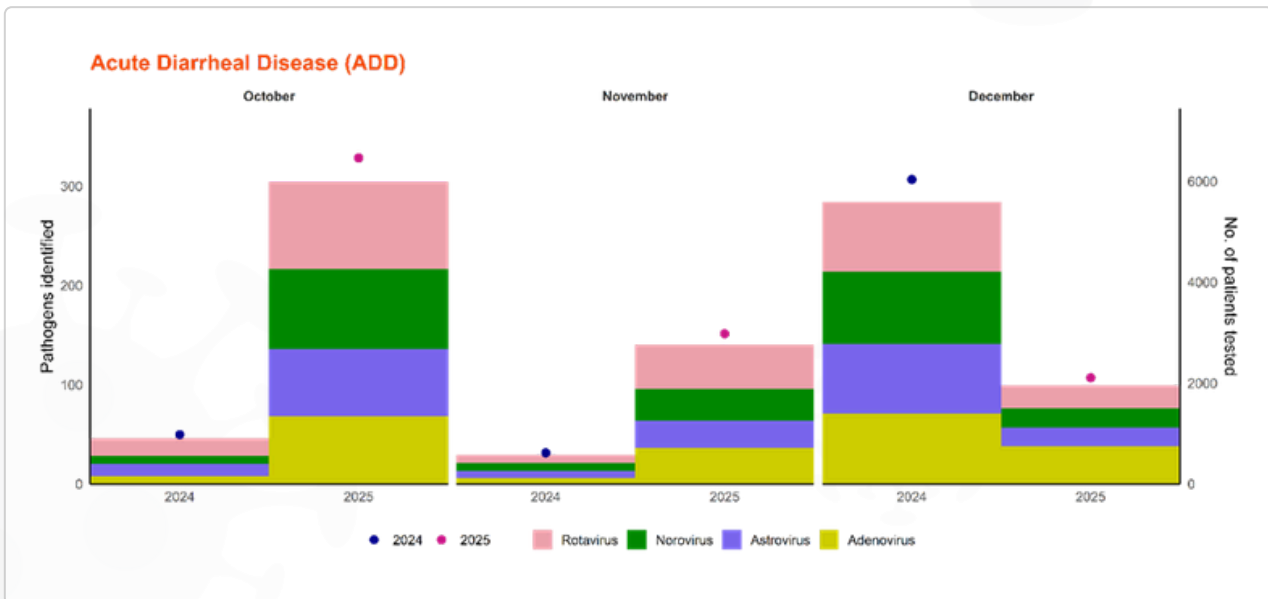
Among ARI/SARI cases, Influenza A was the most frequently detected pathogen

Hemorrhagic fever



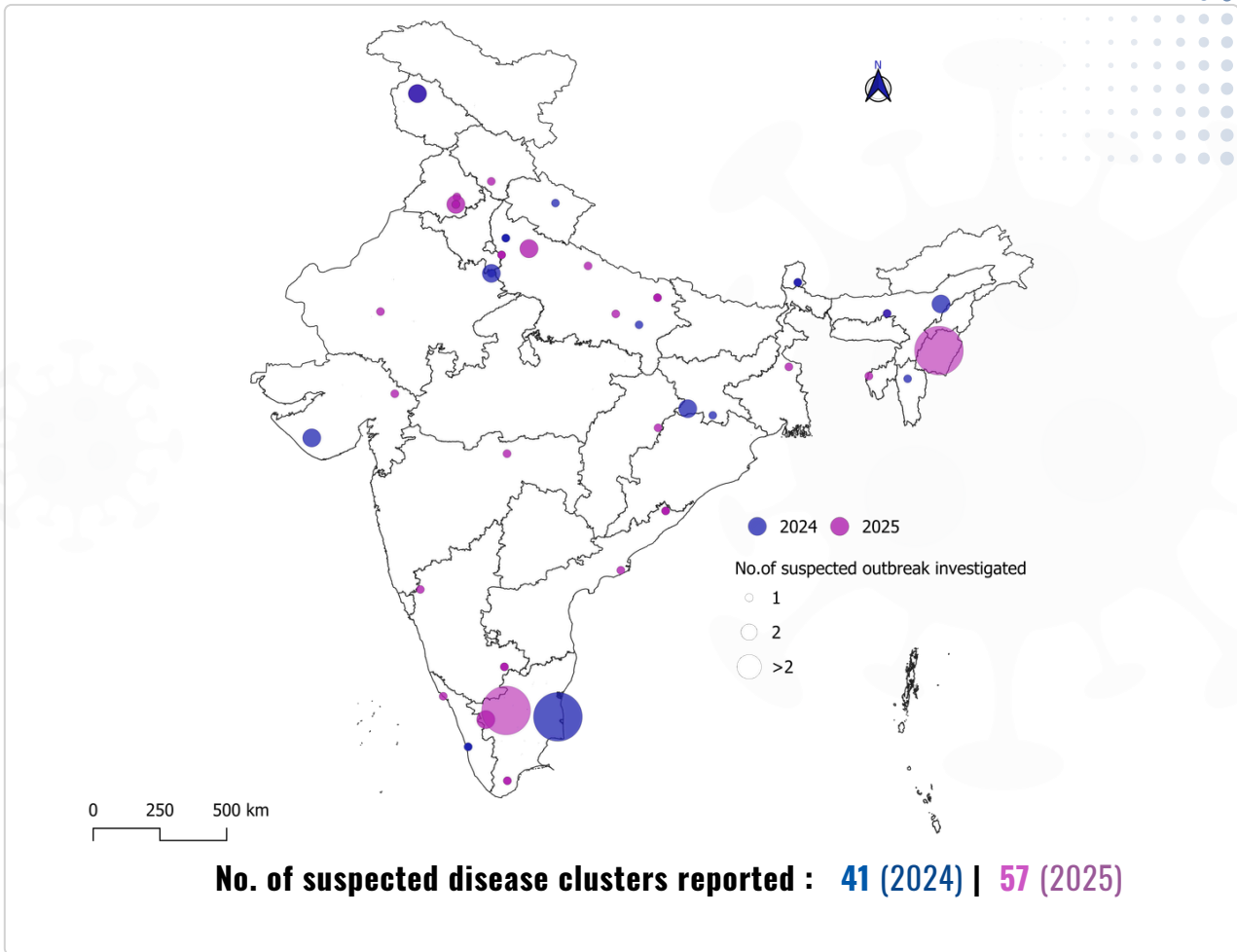
Among Hemorrhagic fever cases, dengue was the most frequently detected pathogen

Acute diarrheal disease (ADD)

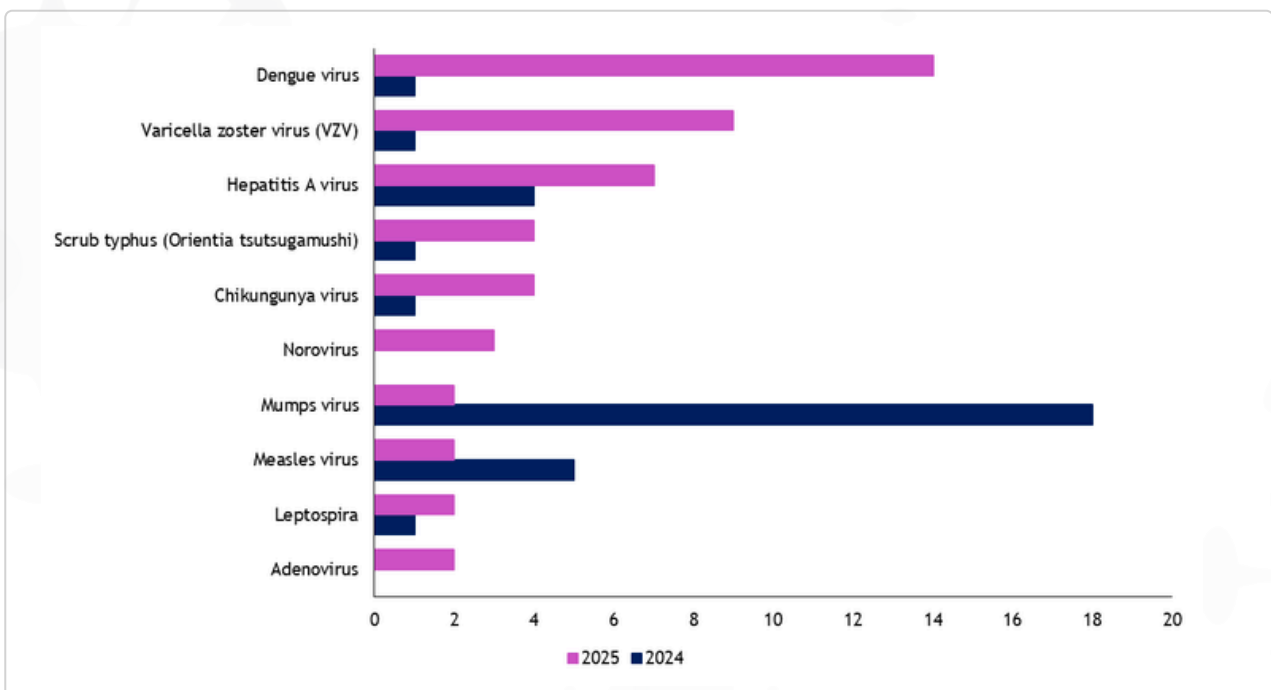


Among Acute diarrheal cases, Adenovirus was the most frequently detected pathogen

Distribution disease clusters investigated



Major etiologies detected in these disease clusters (top 10)



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I. Training programs Conducted:

Area of the training/Workshop	Period (Duration)	Number of participants
Onsite training programme for Laboratory preparedness for GLCP studies -Corrective and Preventive Action Process(CAPA): NIRBI Kolkata	29th to 30th October 2025	10
Onsite training programme for Laboratory preparedness for GLCP studies -Corrective and Preventive Action Process(CAPA): GMC Gauhati	30th October 2025	10
Online Laboratory quality management for Clinical Trials: AIIMS Rishikesh, AIIMS Jodhpur	3rd October 2025	20
Online training for Sample Collection, transportation & clinical data reawarding for suspected cases of KFD: VRDL Shimoga,DHO Sindhudurg	14th November 2025	16
Online training for Lab Operations, Patient enrolment & follow-up & Sample characterization, banking &transportation: SVIMS Tirupati,PGIMER Chandigarh, AIIMS Gauhati, KEM Mumbai, Pt JNM Raipur	10th November 2025	40

II. External Quality Assurance Programs:

Name of EQA Program	Type of diagnostic platform	Number of Laboratories supported
External Quality Assessment program for Dengue IgM ELISA	Serological diagnostics	158 laboratories
External Quality Assessment program for Japanese Encephalitis IgM ELISA	Serological diagnostics	158 laboratories
External Quality Assessment program for Chikungunya IgM ELISA	Serological diagnostics	158 laboratories

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As per the previous quarter report for June to September 2025, EQA panels were provided to 154 VRDLs. In this quarter (October to December 2025), the same panels were provided to 04 more VRDLs. For the entire cycle, 149 VRDLs participated for at least one parameter and reported their findings to RCVRDL in this quarter. Results were decoded and reported to the VRDLs. 11 VRDLs that did not achieve satisfactory concordance for any of the parameters, were supported for the root cause analysis. VRDLs with systematic quality issues were identified for retraining, and will be retrained in January-March 2026.

III. Inter-laboratory comparison program:

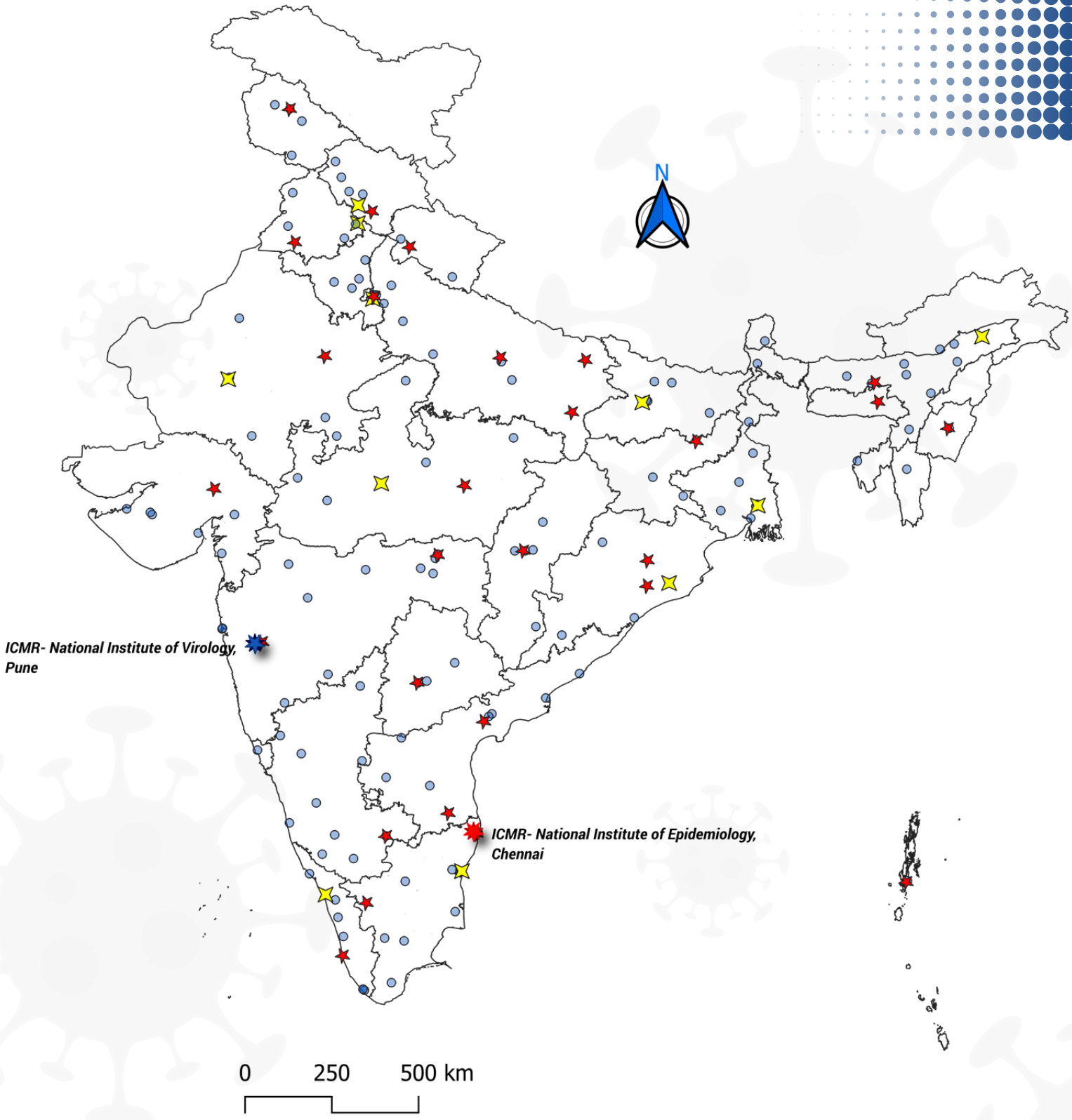
Number of samples tested	Number of Parameters	Number of VRDLs
1670 samples tested	7 parameters for serological diagnosis of viral infections	36

IV. Scientific and technical support:

Type of Scientific and technical support provided	Number of VRDLs supported
Support for equipment specifications, laboratory layout & design	5
Support for referral sample testing at ICMR-NIV	6
Resolution of Queries regarding diagnostic reagents, SOPs and network specific testing algorithms	61
Zika Diagnostic Reagent supply	9
Total	81



The Network of VRDLs



- ★ Regional VRDL
- ★ State level VRDL
- Medical college level VRDL
- ★ Resource centre
- ★ Data mining centre

Strengthening of VRDL Network

Strengthening of the VRDL Network under the Pradhan Mantri–Ayushman Bharat Health Infrastructure Mission (PM-ABHIM)

A. Infectious Diseases Research & Diagnostic Laboratories (IRDLs):

Eleven VRDLs have been upgraded into advanced Infectious Diseases Research and Diagnostic Laboratories (IRDLs), expanding their scope beyond virology to include bacteriology, mycology, and parasitology. These laboratories enhance India's capacity for comprehensive infectious disease surveillance and ensure rapid response during outbreaks. Currently, 11 IRDLs are functional, and the establishment of 14 more is in progress.



Functional Infectious Diseases Research & Diagnostic Laboratories (IRDLs)

B. BSL-3 Strengthening:

Five additional VRDLs have been strengthened with Bio Safety Level -3 (BSL-3) facilities, further enhancing the country's preparedness for handling high-risk pathogens.



*VRDL Network

Regional Level VRDLs

1. Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry
2. All India Institute of Medical Sciences, Bhopal, Madhya Pradesh
3. ICMR-Regional Medical Research Centre, Dibrugarh, Assam
4. ICMR-Regional Medical Research Centre, Bhubaneswar, Odisha
5. ICMR-National Institute for Research in Bacterial Infections Kolkata, West Bengal
6. Post Graduate Institute of Medical Education & Research, Chandigarh
7. All India Institute of Medical Sciences, New Delhi
8. Government Medical College, Kozhikode, Kerala
9. All India Institute of Medical Sciences Patna, Bihar
10. All India Institute of Medical Sciences, Jodhpur, Rajasthan
11. All India Institute of Medical Science, Bilaspur, Himachal Pradesh

State Level VRDLs

1. King George's Medical University, Lucknow, Uttar Pradesh
2. Sawai Man Singh Medical College, Jaipur, Rajasthan
3. Gauhati Medical College, Guwahati, Assam
4. Armed Forces Medical College, Pune, Maharashtra
5. All India Institute of Medical Sciences, Bhubaneswar, Odisha
6. King Institute of Preventive Medicine and Research, Chennai, Tamil Nadu
7. All India Institute of Medical Sciences, Raipur, Chhattisgarh
8. ICMR-National Institute for Research in Tribal Health, Jabalpur, Madhya Pradesh
9. ICMR-Regional Medical Research Center, Gorakhpur, Uttar Pradesh
10. Bangalore Medical College & Research Institute, Bangalore, Karnataka
11. Sher-i-Kashmir Institute of Medical Sciences, Srinagar, Jammu & Kashmir
12. ICMR-National Institute of Virology Kerala Unit, Alappuzha, Kerala
13. B.J. Medical College, Ahmedabad, Gujarat
14. Guntur Medical College, Guntur, Andhra Pradesh
15. Maulana Azad Medical College, New Delhi
16. Government Medical College, Nagpur, Maharashtra
17. Gandhi Medical College, Secunderabad, Hyderabad, Telangana
18. Banaras Hindu University, Varanasi, Uttar Pradesh
19. Sri Venkateswara Institute of Medical Sciences, Tirupati, Andhra Pradesh
20. ICMR-Regional Medical Research Centre, Sri Vijaya Puram, Andaman & Nicobar Islands
21. All India Institute of Medical Sciences, Rishikesh, Uttarakhand
22. North Eastern Indira Gandhi Regional Institute of Health & Medical Sciences, Shillong, Meghalaya
23. Coimbatore Medical College, Coimbatore, Tamil Nadu
24. Srirama Chandra Bhanja Medical College, Cuttack, Odisha
25. Indira Gandhi Medical College, Shimla, Himachal Pradesh
26. All India Institute of Medical Sciences, Deogarh, Jharkhand
27. Regional Institute of Medical Sciences, Imphal, Manipur

VRDL Network

Medical College VRDLs

1. Government Medical College, Amritsar, Punjab
2. ICMR-Rajendra Memorial Research Institute of Medical Sciences, Patna, Bihar
3. Institute of Post Graduate Medical Education & Research, Kolkata, West Bengal
4. Government Mohan Kumaramangalam Medical College, Salem, Tamil Nadu
5. Zoram Medical College, Zoram, Mizoram
6. Government Medical College, Chhatrapati Sambhajnagar, Maharashtra
7. Government Medical College, Surat, Gujarat
8. Shyam Shah Medical College, Rewa, Madhya Pradesh
9. Dr Vaishampayan Memorial Government Medical College, Solapur, Maharashtra
10. Government Medical College, Miraj, Maharashtra
11. Seth Gordhandas Sunderdas (GS) Medical College & King Edward Memorial (KEM) Hospital, Mumbai, Maharashtra
12. Madurai Medical College, Madurai, Tamil Nadu
13. Dr. Ram Manohar Lohia Hospital and Atal Bihari Vajpayee Institute of Medical Sciences, New Delhi
14. Post Graduate Institute of Medical Sciences, Rohtak, Haryana
15. Tirunelveli Medical College, Tirunelveli, Tamil Nadu
16. All India Institute Of Medical Sciences, Nagpur, Maharashtra
17. Siddhartha Medical College, Vijayawada, Andhra Pradesh
18. Kasturba Hospital for Infectious Diseases, Mumbai, Maharashtra
19. Ranga Raya Medical College, Kakinada, Andhra Pradesh
20. Jawaharlal Nehru Institute of Medical Sciences, Imphal, Manipur
21. Shimoga Institute of Medical Sciences, Shivamogga, Karnataka
22. Osmania Medical College, Hyderabad, Telangana
23. All India Institute of Medical Science, Raebareli, Uttar Pradesh
24. Rabindranath Tagore Medical College, Udaipur, Rajasthan
25. Government Medical College, Theni, Tamil Nadu
26. Madras Medical College, Chennai, Tamil Nadu
27. Lady Hardinge Medical College, New Delhi
28. Agartala Government Medical College, Agartala, Tripura
29. Vijayanagar Institute of Medical Science, Bellary, Karnataka
30. Sardar Patel Medical College, Bikaner, Rajasthan
31. Government Medical College, Jammu, Jammu & Kashmir
32. Government Medical College, Srinagar, Jammu & Kashmir
33. University College of Medical Sciences & Guru Teg Bahadur Hospital, New Delhi
34. Rajendra Institute of Medical Sciences, Ranchi, Jharkhand
35. Midnapore Medical College & Hospital, Midnapore, West Bengal
36. Government Medical College & Hospital, Chandigarh
37. Malda Medical College, Malda, West Bengal
38. All India Institute of Medical Sciences, Bibinagar, Telangana
39. Pandit Dindayal Upadhyay Medical College, Rajkot, Gujarat
40. Government Medical College, Patiala, Punjab
41. Diamond Harbour Government Medical College & Hospital, Diamond Harbour, West Bengal
42. All India Institute of Medical Sciences, Kalyani, West Bengal
43. Andhra Medical College, Vishakhapatnam, Andhra Pradesh
44. Late Baliram Kashyap Memorial Government Medical College, Jagdalpur, Chhattisgarh
45. Shri Meghji Pethraj Shah Medical College, Jamnagar, Gujarat
46. Gajra Raja Medical College, Gwalior, Madhya Pradesh
47. Government Medical College, Thrissur, Kerala
48. Government Thiruvapur Medical College, Thiruvapur, Tamil Nadu
49. Mysore Medical College & Research Institute, Mysuru, Karnataka
50. Kakatiya Medical College, Nizampura, Warangal, Telangana
51. Government Medical College, Vadodara, Gujarat
52. Bundelkhand Medical College, Sagar, Madhya Pradesh
53. Karnataka Medical College & Research Institute, Hubballi, Karnataka
54. Government Medical College, Akola, Maharashtra
55. Jorhat Medical College, Jorhat, Assam
56. Government Medical College, Bhavnagar, Gujarat
57. Government Institute of Medical Sciences, Greater Noida, Uttar Pradesh
58. Dr. Rajendra Prasad Government Medical College, Tanda, Himachal Pradesh
59. Silchar Medical College, Silchar, Assam
60. All India Institute of Medical Sciences, Mangalagiri, Andhra Pradesh
61. Hassan Institute of Medical Sciences, Hassan, Karnataka
62. Government Medical College, Thiruvananthapuram, Kerala
63. Indira Gandhi Medical College & Research Institute, Puducherry
64. ICMR-National Institute for Research in Tuberculosis, Chennai, Tamil Nadu

VRDL Network

Medical College VRDLs

65. Indira Gandhi Government Medical College, Nagpur, Maharashtra
66. Patna Medical College, Patna, Bihar
67. Mahatma Gandhi Memorial Medical College, Jamshedpur, Jharkhand
68. Government Medical College, Haldwani, Uttarakhand
69. Jawaharlal Nehru Medical College, Aligarh, Uttar Pradesh
70. Uttar Pradesh University of Medical Sciences, Saifai, Uttar Pradesh
71. Rajiv Gandhi Institute of Medical Sciences, Kadapa, Andhra Pradesh
72. Government Medical College, Kannur, Pariyaram, Kerala
73. Government Doon Medical College, Dehradun, Uttarakhand
74. Andaman & Nicobar Island Institute of Medical Sciences, Sri Vijaya Puram, Andaman & Nicobar Islands
75. Mahatma Gandhi Memorial Medical College, Indore, Madhya Pradesh
76. Government Medical College, Anantapur, Andhra Pradesh
77. North Bengal Medical College, Darjeeling, West Bengal
78. Saheed Laxman Nayak Medical College & Hospital, Koraput, Odisha
79. Shri Lal Bahadur Shastri Government Medical College, Mandi, Himachal Pradesh
80. Radha Gobinda Kar Medical College, Kolkata, West Bengal
81. Gulbarga Institute of Medical Sciences, Kalaburgi, Karnataka
82. Jhalawar Medical College, Jhalawar, Rajasthan
83. Government Medical College, Baramulla, Jammu & Kashmir
84. Goa Medical College, Bambolim, Goa
85. Murshidabad Medical College & Hospital, Murshidabad, Berhampore, West Bengal
86. Maharaja Krushna Chandra Gajapati Medical College, Brahmapur, Odisha
87. Government Villupuram Medical College, Villupuram, Tamil Nadu
88. Guru Gobind Singh Medical College, Faridkot, Punjab
89. Tezpur Medical College, Tezpur, Assam
90. Burdwan Medical College, Burdwan, West Bengal
91. Government Medical College, Kota, Rajasthan
92. Bhagat Phool Singh Government Medical College for Women, Sonapat, Haryana
93. Fakhruddin Ali Ahmed Medical College, Barpeta, Assam
94. Darbhanga Medical College, Darbhanga, Bihar
95. Shree Krishna Medical College, Muzaffarpur, Bihar
96. Veer Surendra Sai Institute of Medical Sciences and Research, Sambalpur, Odisha
97. Dr. Sampurnanand Medical College, Jodhpur, Rajasthan
98. Pandit Jawaharlal Nehru Government Medical College, Chamba, Himachal Pradesh
99. Jawahar Lal Nehru Medical College & Hospital, Bhagalpur, Bihar
100. Shri Bhausaheb Hire Government Medical College, Dhule, Maharashtra
101. Lala Lajpat Rai Memorial Medical College, Meerut, Uttar Pradesh
102. All India Institute of Medical Sciences, Rajkot, Gujarat
103. Kalpana Chawla Government Medical College, Karnal, Haryana
104. Government Medical College, Anantnag, Jammu & Kashmir
105. ICMR-National Institute of Traditional Medicine, Belagavi, Karnataka
106. National Institute of Mental Health & Neurosciences, Bangalore, Karnataka
107. Kodagu Institute of Medical Sciences, Madikeri, Karnataka
108. Government Medical College Manjeri, Malapuram, Kerala
109. Government Medical College, Ernakulam, Kerala
110. Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, Kerala
111. Dr. Laxmi Narayan Pandey Government Medical College, Ratlam, Madhya Pradesh
112. Military Hospital Jodhpur, Rajasthan
113. Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, Uttar Pradesh
114. Kurnool Medical College, Kurnool, Andhra Pradesh
115. Tomo Riba Institute Health and Medical Sciences, Naharlagun, Arunachal Pradesh
116. Diphu Medical College & Hospital, Diphu, Assam
117. All India Institute of Medical Sciences, Guwahati, Assam
118. Lakhimpur Medical College, Chowkham, Assam
119. Nagaon Medical College & Hospital, Nagaon, Assam
120. Pandit Jawaharlal Nehru Memorial Medical College, Raipur, Chhattisgarh
121. Chhattisgarh Institute of Medical Sciences, Bilaspur, Chhattisgarh
122. Late Shrimati Indira Gandhi Memorial Government Medical College, Kanker, Chhattisgarh
123. Chandulal Chandrakar Memorial Government Medical College, Durg, Chhattisgarh
124. Army Hospital Research and Referral Dhaula Kuan, New Delhi
125. Vallabhbhai Patel Chest Institute, University of Delhi, New Delhi
126. All India Institute of Medical Sciences, Bathinda, Punjab
127. Dr. B.R. Ambedkar State Institute of Medical Sciences, Mohali, Punjab

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