Integrated Disease Surveillance Program

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About the program

Integrated Disease Surveillance Project (IDSP) centrally sponsored and World bank Funded was launched by Honorable Union Minister of Health & Family Welfare in November 2004 and implemented in Puducherry from 2006. IDSP is a decentralized district based system of weekly surveillance of communicable disease so that timely and effective public health measures can be taken to prevent and control communicable diseases in the UT of Puducherry. The project was restructured and extended as Integrated Disease Surveillance Program in the twelfth five year plan as Integrated Disease Surveillance Program under National Health Mission.

Goals and Objectives

- To detect early warning signals of impending outbreaks.
- To integrate, co-ordinate and decentralized surveillance activities.
- To establish IT enabled system for quality data collection, collation analysis and feedback of epidemic prone communicable diseases.
- To strengthen laboratory based surveillance.

Organizational structure

Central Surveillance Unit
National Centre for Disease Control – New Delhi

State Surveillance Unit
Directorate of Health, Office of Public Health, Pondicherry district, UT of Puducherry.

District Surveillance Unit
One unit each at 4 districts viz. Pondicherry, Karaikal, Mahe and Yanam.

State Surveillance Unit

Place – Pondicherry

Head – State Surveillance Officer – Deputy Director Public health

District Surveillance units

Place – 4 Districts – Pondicherry, Karaikal, Mahe and Yanam.

Head – District Surveillance Officer – Deputy Director Immunization of the District.
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<tr>
<th>S. No</th>
<th>Designation</th>
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<tbody>
<tr>
<td>1.</td>
<td>State Epidemiologist</td>
<td>District Epidemiologist</td>
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<td>2.</td>
<td>Veterinary consultant</td>
<td>District Microbiologist</td>
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<td>3.</td>
<td>State Microbiologist</td>
<td>District Data Manager</td>
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<td>4.</td>
<td>State Data Manager</td>
<td>District Data entry Operator</td>
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<td>5.</td>
<td>State Finance Consultant</td>
<td>Lab technician</td>
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<td>6.</td>
<td>State Data entry Operator</td>
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<td>7.</td>
<td>State Entomologist</td>
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**Activities of IDSP**

1. **Surveillance of communicable diseases**

Collection of data on communicable diseases from health care facilities both government and private is the prime activity of IDSP. Routine data collection is on weekly basis, in prescribed formats at 3 levels viz Syndromic, presumptive and laboratory. Surveillance based on standard definitions by NCDC. Data management at the state level monitors timely submission of data at all districts and data entry in the IDSP Portal.

1. a. During impending outbreak/ outbreak data is collected on daily basis till it is brought under control.

1. b. **Media surveillance** - Media scanning and verification cell has been established at State Surveillance Unit of UT Puducherry to collect and monitor information on communicable diseases through media every week. Media scanning report generated by SSU as per MSVC protocol and shared with CSU and DSUs on weekly basis.

1. c. Interwise video conference through webcon is conducted between SSU and DSUS to monitor IDSP activities, online training and dissemination of information and MOHFW Guidelines.

2. **Analysis and Prediction of Outbreak**

Data collected routinely on weekly basis is compiled and analyzed to identify any unusual reporting. Based on this an Early Warning Signal (EWS) is generated to report any impending outbreak/epidemic. State Surveillance Unit compiles all EWS received from districts and shares it with CSU. Based on the EWS Field measures are initiated to prevent outbreak. SSU helps districts with public health planning and preventive measures.
2. a. During outbreak

Daily data on the disease that has caused the outbreak is obtained from all laboratory based reporting units and other hospitals and laboratories which detects the disease and compiled at IDSP unit and information shared with the program/ department involved in activities pertaining to containment of the disease to hasten the containment of the outbreak/ epidemic as part of integration and inter sectoral co – ordination.

3. Response to Early warning signals

A multidisciplinary Rapid response Team has been constituted at State level headed by Deputy Director Public health cum State Surveillance Officer and district surveillance officer at the district level to respond to early warning signals generated from the Office of Deputy Director Public Health. The field team at the affected PHCS guided and monitored by IDSP follows up with active syndromic surveillance on daily bases for early detection of cases and control further transmission of the infection.

3. a. Rapid Response Team includes epidemiologist and Veterinary consultant from IDSP at state and district level to facilitate epidemiological investigation and remedial measures following early warning signals.

4. Capacity building

Training doctors at all health care levels and staffs of health to maintain good surveillance and response to early warning signals.

5. IT enabled data lab

Improve IT enabled reporting system for better surveillance, including private health care providers, prompt notification and cross notification.

6. Strengthening laboratories

Laboratories are equipped to identify communicable diseases of public health importance under IDSP surveillance.

6. a. District Public Health Laboratories

Laboratories at district hospitals of Puducherry and Karaikal have been strengthened to District Public Health Laboratories (DPHL) to diagnose epidemic prone diseases. Establishment of DPHL Yanam is under process.
6. b. State Referral Laboratory

State referral laboratory (SRL) has been established at Indira Gandhi Government Medical College and Research Institution, Puducherry, to test samples collected following active case search during impending outbreaks/outbreaks.

Funds for purchase of lab consumables are sought through Program Implementation Plan every year for DPHL and SRL. Representatives from DPHL and SRL are part of RRT.

7. Integration and Inter sectoral co–ordination

7. a. Integration with other departments in directorate of health, on health data, public health preparedness, prevention and control of epidemic prone communicable diseases.


7. c. Inter – sectoral co – ordination with department like, Public works, Municipality, Food safety and health to ensure better prevention and control of epidemic prone communicable diseases.

7. d. Co - ordination of public health preparedness in response to national and international alerts on communicable diseases raised by Government of India and IEC activities.

Performance of IDSP UT Puducherry

IDSP Puducherry is among the top performers of the country as per NCDC Ranking.

Reporting rate - > 95%

Private Reporting units – 39% laboratory reporting is from private health service providers, second highest in the country.

Benefits of IDSP

- Prevention of transmission of communicable diseases and saving health care cost
- Early detection of impending outbreaks
- Early institution of containment measures
- Reduction of morbidity and mortality due to epidemic prone communicable diseases.
- Identification and containment of re – emerging infectious diseases.