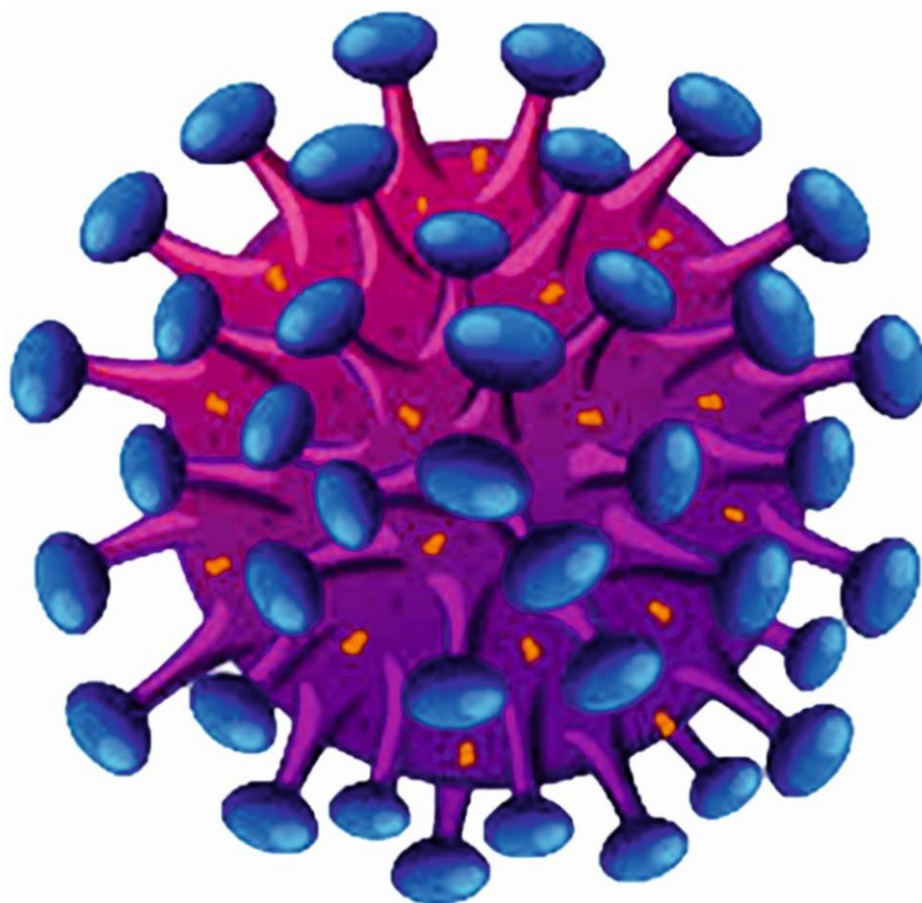


HIV SENTINEL SURVEILLANCE (ANC)

Tamil Nadu State Report



2018-19



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HIV

SENTINEL SURVEILLANCE (ANC) Tamil Nadu State Report

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ICMR-NATIONAL INSTITUTE OF EPIDEMIOLOGY
Chennai



NATIONAL AIDS CONTROL ORGANISATION
New Delhi



TAMILNADU STATE AIDS CONTROL SOCIETY
Chennai



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Foreword

HIV Sentinel surveillance among ANC attendees is one of the most important national level activities, as it helps the programme managers in framing health policies towards controlling HIV infection in the state and the country as well. The objectives of HIV sentinel surveillance are to understand the trends, assess spread and distribution of HIV infection among geographical areas across the state. In order to have uniform geographical coverage, the number of sentinel sites in the state has been increased over a period of years by keeping at least one site in each district.

The National Institute of Epidemiology, Chennai, one of the Regional Institutes for 8 southern states, is involved in the HIV surveillance activities since 2006. This report is prepared based on the data collected during the 16th round of surveillance, in conjunction with the past years data to analyze the trend and to have an insight of epidemiological factors. I hope this report will serve as a very useful tool for the policy makers, scholars, researchers and other stakeholders in formulating guidelines in controlling HIV and enhancing their knowledge of HIV in their state.

I take this opportunity to thank Dr. Shobini Rajan, Assistant Director General, NACO and Dr. Pradeep Kumar, Consultant (surveillance) & his team for entrusting this activity to NIE and also for providing technical support in implementing the surveillance. I also wish to thank the Project Director and nodal officer of State AIDS Control Society for their help in completing the surveillance activities in a timely manner. I express my gratitude to all the State Referral Laboratories, National Referral Laboratories, State Surveillance Team members, Sentinel sites personnel and other National and International partners who helped us in completing the surveillance successfully.

Dr. Manoj V Murhekar



WHO Collaborating Centre for Leprosy Research and Epidemiology

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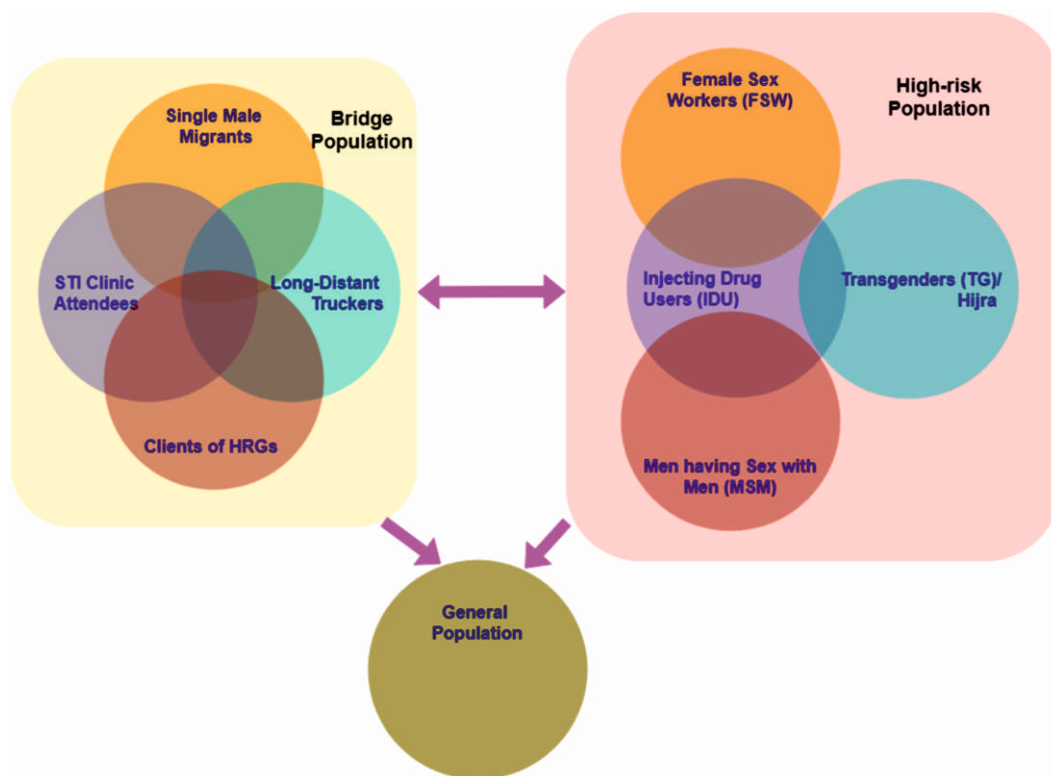
CHAPTER 1.

INTRODUCTION: HIV AND HSS

Acquired immune deficiency syndrome or acquired immunodeficiency syndrome (AIDS), caused by the human immunodeficiency virus (HIV), progressively reduces the effectiveness of the immune system, leaving the infected susceptible to opportunistic infections. HIV was first reported in USA in 1981, following which the infection spread globally. Three decades since its inception, the epidemic still continues to be a global public health threat and interventions at various levels are ongoing for HIV management. Unprotected sex, sharing used needles or syringes and transfusion of untested blood increases the risks of HIV infection.

The first HIV case in India was reported in 1986 in Chennai, followed by a rapid spread across the nation within a decade. Based on their risk of disease transmission and HIV prevalence levels, the population in India is divided into 3 categories high-risk groups with - high prevalence, bridge populations with moderate prevalence and general population with low prevalence.

Figure 1: HIV Transmission Dynamics among HIV Sub-population groups

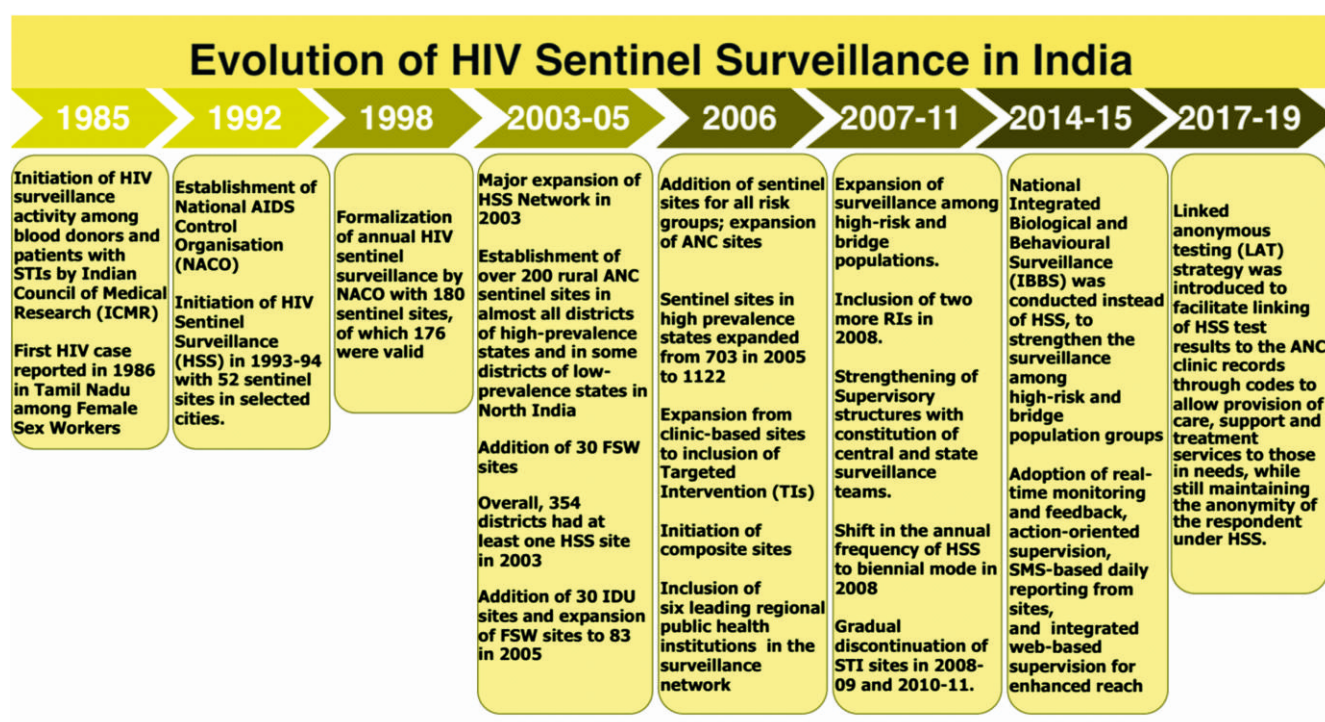


HIV in India is highly concentrated among the high-risk population groups. Unprotected sex with female sex workers (FSW), injecting drug users (IDU), and unprotected anal sex between men are the three primary routes of HIV transmission in India. The bridge population, generally the clients or partners of high-risk population, transmit the disease to the general population. Hence measures to reduce the HIV prevalence levels in high-risk population has been observed as an effective method to reduce the transmission risks.

1.1 HIV Sentinel Surveillance (HSS)

HIV sentinel surveillance is defined as a system of monitoring the HIV epidemic among the specified population groups by collecting information on HIV from designated sites (sentinel sites) over years, through a uniform and consistent methodology that allows comparison of findings across place and time, to guide programme response. A sentinel site is a designated service point/facility where blood specimens and relevant information are collected from a fixed number of eligible individuals from a specified population group over a fixed period of time, periodically, for the purpose of monitoring the HIV epidemic.

Figure 2: Evolution of HIV sentinel surveillance in India



The HIV sentinel surveillance (HSS) in India was initiated in 1985 among the blood donors and patients with STIs by the Indian Council of Medical Research (ICMR). It is one of the largest HSS systems in the world which helps to understand the dynamics of the HIV epidemic and monitor the trends among different population groups and geographical areas. It provides inputs to the programme for strengthening prevention and control activities. The sentinel sites have been scaled up in a phased manner from 176 in 1998 (including 92 ANC sites) to 1359 in 2010-11 (including 696 ANC sites). HSS 2019 was implemented at 776 ANC sites. In continuation, the 16th round of HIV Sentinel Surveillance (HSS) among antenatal care (ANC) clinic attendees was implemented during year 2019 at 833 sites across 35 States/UTs and 642 districts (out of total of 727 districts). This is highest in various rounds of HSS under NACP till now.

Figure 3: Objectives and Application of HIV Sentinel Surveillance



CHAPTER 2

HSS - METHODOLOGY AND IMPLEMENTATION

2.1 Implementation Structure of HIV Sentinel Surveillance in India

HIV sentinel surveillance has a robust structure for planning, implementation, and review. It follows a four-tier supervisory structure at national, regional, state, and district levels.

National level Organizations and Institutes act as Nodal Agencies while the 8 regional institutes provide technical support to the State AIDS Control Societies (SACS) for all HSS activities. SACS is primarily responsible for implementation of HSS in their respective states with the support of functional district AIDS Prevention and Control Units (DAPCUs), for coordination of HSS activities at the sentinel sites and the associated testing labs. The entire HSS structure is involved the assessment of HSS implementation plans and review of the outcomes of each round.

Figure 4: Implementation Structure of HSS

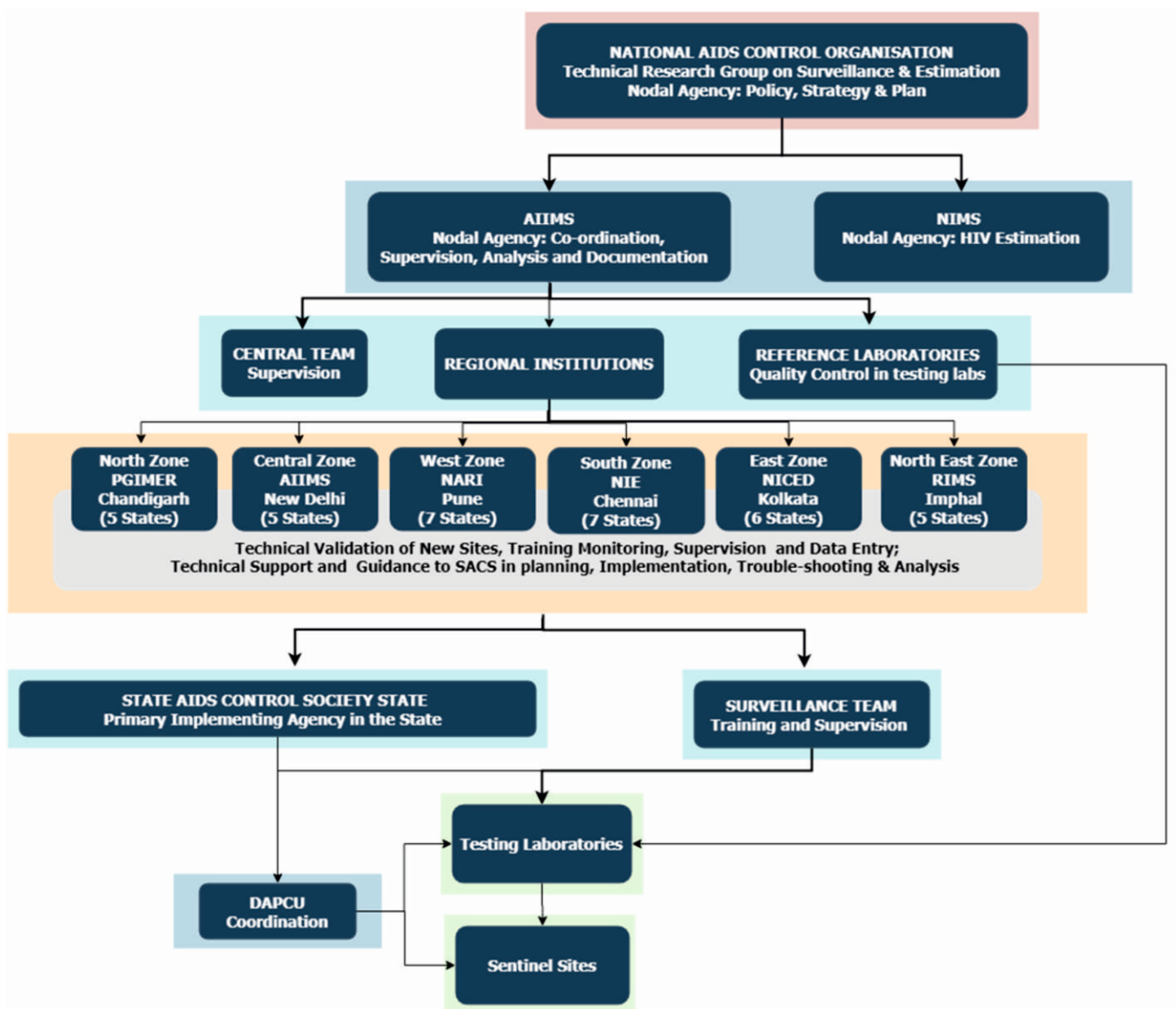


Table 1: Regional Institutes and their States Covered

| Name of regional institution | Responsible states |
|--|---|
| Central: All India Institute of Medical Science, New Delhi | Uttar Pradesh, Bihar, Jharkhand, Uttaranchal, and Delhi. |
| North: Postgraduate Institute of Medical Education and Research, Chandigarh | Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab, and Chandigarh. |
| West: National AIDS Research Institute, Pune | Maharashtra, Gujarat, Goa, Madhya Pradesh, Rajasthan, Daman & Diu, and Dadra Nagar Haveli. |
| South: National Institute of Epidemiology, Chennai | Andhra Pradesh, Tamil Nadu, Karnataka, Kerala, Odisha, Puducherry, and Lakshadweep and Telangana. |
| East: National Institute of Cholera and Enteric Diseases, Kolkata | West Bengal, Chhattisgarh, Sikkim, Andaman & Nicobar Islands, Meghalaya, and Nagaland. |
| Northeast: Regional Institute of Medical Sciences, Imphal | Manipur, Mizoram, Tripura, Assam, and Arunachal Pradesh. |

2.2 Initiatives during HSS 2018-19:

In response to key issues identified in the implementation of HSS during the previous rounds as well as to improve the quality and promptness of the surveillance, several new initiatives were implemented in the 16th round, as part of continuous quality improvement.

SACS checklist for preparatory activities:

- Developed to monitor the planning process for HSS in each state (Annex 3).
- All preparatory activities were broken into specific tasks with clear timelines and all SACS were required to submit the completion status for each task.
- A team of officers from NACO coordinated with state nodal persons to ensure that preparatory activities in all states adhered to the timelines.

Pre-surveillance sentinel site evaluation (SSE):

- A pre-surveillance evaluation of ANC and STD sentinel sites was conducted to identify and correct human resources and infrastructure-related issues at the sentinel sites before initiation of surveillance.
- The evaluation also provided site information such as type of facility, average OPD attendance, availability of HIV and AIDS services, and distance of facilities from HSS labs (Annex 4), which may have implications on adherence to methodology.

Standard operational manuals, wall charts, and bilingual data forms:

- Developed to simplify the HSS methodology for site-level personnel and to ensure uniform implementation of the guidelines in all the sentinel sites.
- These were printed centrally and distributed across the country.

Training during HSS 2018-19:

Steps to improve quality of training:

1. A well-structured training programme was adopted to ensure that all the personnel involved in HSS at different levels were adequately and uniformly trained in the respective areas of responsibility.
2. The training agenda, curriculum, and planning and reporting formats were standardized and used in all the states. Standard slide sets and training manuals for training of sentinel site personnel were developed centrally to ensure uniformity.
3. Trainings included group work and a “know your sentinel site” exercise, which helped participants to identify the routine practices that could affect the implementation of surveillance at their sites and recommended actions to address the same.
4. Pre and post-test assessments were given to each participant at the site-level trainings. Analysis of these scores helped state teams to identify the priority sites for supervisory visits.
5. Training reports for each batch were submitted in standard formats at the end of each training.

Details of trainings:

1. Trainings started with two batches of national pre-surveillance meetings with about 90 personnel from regional institutes and SACS to discuss the critical aspects of planning for HSS 2018-19 and to clearly understand the system for supportive supervision through the online Strategic Information Management System (SIMS) application.
2. This was followed by 2-day regional TOTs organised by the RIs for SACS officers and state surveillance teams, comprised of public health experts and microbiologists, to create state-level master trainers and to plan for the site-level trainings.
3. Site-level trainings (2 days per batch @ 8-10 sites per batch) were conducted in all the states. Representatives from the regional institutes and NACO observed the trainings to ensure that trainings were provided as per the protocol and that all the sessions were covered as per the session plan.
4. Separate trainings on surveillance testing protocols and lab reporting mechanisms through the SIMS application for HSS were organised for microbiologists and lab technicians from 117 ANC/STD testing labs and 13 NRLs.
5. Overall, 40 central team members; 30 officers from six RIs; 95 SACS officers including in-charge surveillance, Epidemiologists, and M&E officers; 280 state surveillance team members; 260 laboratory personnel including microbiologists and lab technicians from the designated testing labs; and more than 3,000 sentinel site personnel including medical officers, nurse/counsellors, and lab technicians were trained under HSS 2018-19.

Laboratory system:

- The laboratory system was strengthened by limiting the sample testing to designated SRLs.
- introduction of web based reporting through the SIMS application ensured real-time monitoring of the quality of blood specimens and laboratory processes
- Quality assurance aspects of sample testing under HSS were standardized
- Responses in case of discordant test results between testing lab and reference lab were streamlined through the SIMS application.

Supervisory mechanisms for HSS 2018-19:

- Supervision of all HSS activities was prioritized to ensure smooth implementation and high-quality data collection.
- Extensive mechanisms were developed to set up a comprehensive supervisory system for HSS and to ensure that 100 % of HSS sites were visited in the first 15 days of the start of sample collection.
- The principles adopted included action-oriented supervision, real-time monitoring and feedback, accountability for providing feedback and taking action, and an integrated web-based system to enhance the reach and effectiveness of supervision.

SIMS modules for web-based supervision:

- Specific modules were developed and made operational in the web-based SIMS for HSS to facilitate real-time monitoring of HSS 2018-19.
- Field supervision was conducted by trained supervisors who visited the sentinel sites to monitor the quality of recruitment of respondents and other site-level procedures. Real-time reporting of field supervision used the SIMS supervisor module via the field supervisory quick feedback and action taken report sub-modules. The module was used extensively by all the supervisors and helped in quick identification and resolution of challenges in the field.
- Data were supervised by data managers at RIs to monitor the quality of data collection and transportation using the SIMS module.
- Laboratory supervision was conducted by SRLs and NRLs to monitor the quality of blood specimens, progress in laboratory processing, and external quality assurance, using the SIMS lab module.
- Overall, 80 % of supervisors reported on the SIMS field supervisor quick feedback format, and 52 % of action taken report formats were submitted by HSS focal persons from SACS and RIs. Laboratory reporting through the lab module was completed by 87% of SRLs.

Integrated monitoring and supervision plan:

- An integrated supervision plan for each state was developed by RIs, SACS, and AIIMS to avoid duplication in monitoring coverage, thereby facilitating maximum coverage of surveillance sites.
- The first round of visits was conducted by RI, SACS, and SST members.
- Central team members (CTM) visited the top priority sites identified in feedback from the first round of visits.
- Subsequent visits were based on priority with a goal of making at least three visits to each identified site which require supervision.

2.3 Methodology of HSS at ANC Sentinel Sites:

The methodology for the 2019 round of HSS at ANC clinic attendees remained as same as the earlier round. The complete methodology may be found in the HIV Sentinel Surveillance Operational Guidelines available on the website of the National AIDS Control Organisation (NACO).

Figure 5: HSS Methodology

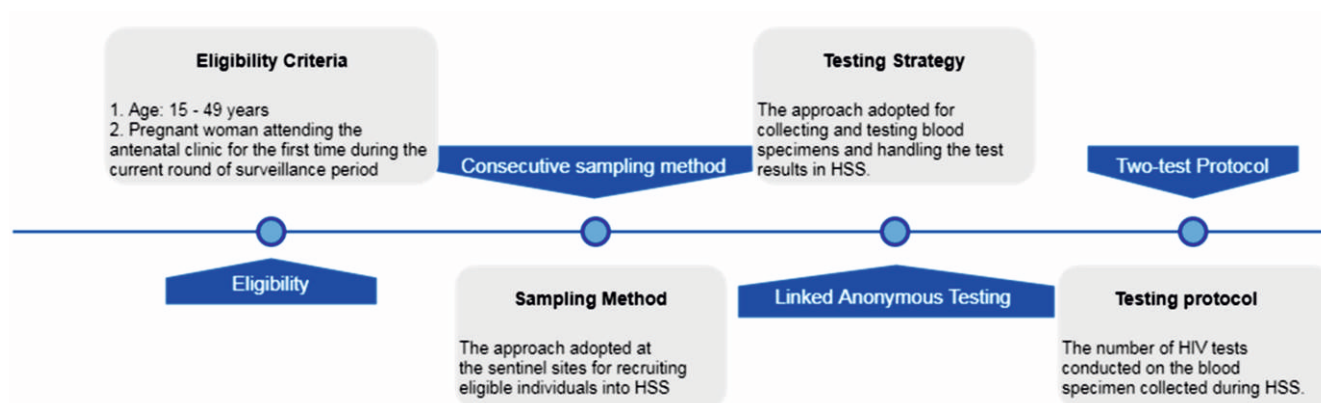


Table 2: Summary of HSS Methodology at ANC Sentinel Sites

| | |
|-------------------------|--|
| Sentinel site | Antenatal clinic |
| Sample size | 400 |
| Duration | 3 months |
| Frequency | Once in 2 years (biennial) |
| Sampling method | Consecutive sampling |
| Eligibility | Pregnant women ages 15-49 years attending ANC clinic for the first time during the current round |
| Testing strategy | Linked anonymous testing |
| Blood specimen | Serum collected through venous blood specimen |
| Testing protocol | Two-test |

Key elements of the HSS methodology:

- In HSS among pregnant women, recruitment of respondents is conducted biennially for three months between January to March at selected ANC sentinel sites, across the nation.
- Because of the low HIV prevalence in India, the classical survey method of sample size calculation gives a large sample size. Owing to the practical difficulty in data and sample collection from such a large sample size through facility-based surveillance on regular basis, a sample size of 400 for surveillance among ANC attendees has been fixed.
- All eligible respondents are enrolled until the sample size of 400 in each sentinel site is reached or until the end of the surveillance period, whichever is earlier.
- Eligibility: All pregnant women eligible under the above inclusion criteria are included in the survey irrespective of the date of antenatal registration, known HIV positivity status, testing status under PPTCT programme or participation in the previous rounds of HSS.
- Inclusion Criteria: i. Age 15-49 years; ii. Pregnant woman attending the antenatal clinic for the first time during the current round of surveillance period
- Exclusion Criteria: i. Pregnant women not in the age group of 15-49 years; ii. Pregnant woman attending the antenatal clinic for the second or more time during the current round of surveillance period
- Sampling method, testing strategy and test protocol are standard components of any surveillance. Consecutive sampling method, linked anonymous testing strategy and two-test protocol are followed in HSS among pregnant women.

Table 3: Scale up of No. of Sentinel sites in Tamil Nadu, 2003-2019

| Site Type | 2003 | 2004 | 2005 | 2006 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|
| ANC | 52 | 63 | 63 | 63 | 63 | 63 | 72 | 72 | 72 | 71 | 71 |
| FSW | 1 | 1 | - | 11 | 10 | 28 | 27 | - | - | 24 | 24 |
| MSM | 2 | 2 | - | 2 | 2 | 17 | 17 | - | - | 15 | 15 |
| IDU | 1 | 1 | - | 2 | 2 | 2 | 2 | - | - | 0 | 0 |
| Truckers | - | - | - | - | - | - | 2 | - | - | 2 | 2 |
| Migrants | - | - | - | - | - | - | 3 | - | - | 2 | 2 |
| Transgender | - | - | - | - | - | - | 2 | - | - | 1 | 1 |
| STD | 11 | 11 | - | 11 | 11 | - | - | - | - | 0 | 0 |
| Tuberculosis | - | - | - | 1 | - | - | - | - | - | - | - |

2.4 Information Collected under HSS at ANC Sentinel Sites

Information on 15 variables pertaining to the respondents' socio-demographic characteristics, HIV testing and management was collected. The data collected during the surveillance is robust and gives an insight on the socio-demographics and vulnerabilities of the respondents. The data helps the program managers and policy makers to identify of specific characteristics associated with higher risk of acquiring HIV infection. Thus the data has guided the HIV intervention program in responding to the epidemic effectively.

Figure 6: Recruitment process of ANC attendees at ANC Sentinel Sites for HSS

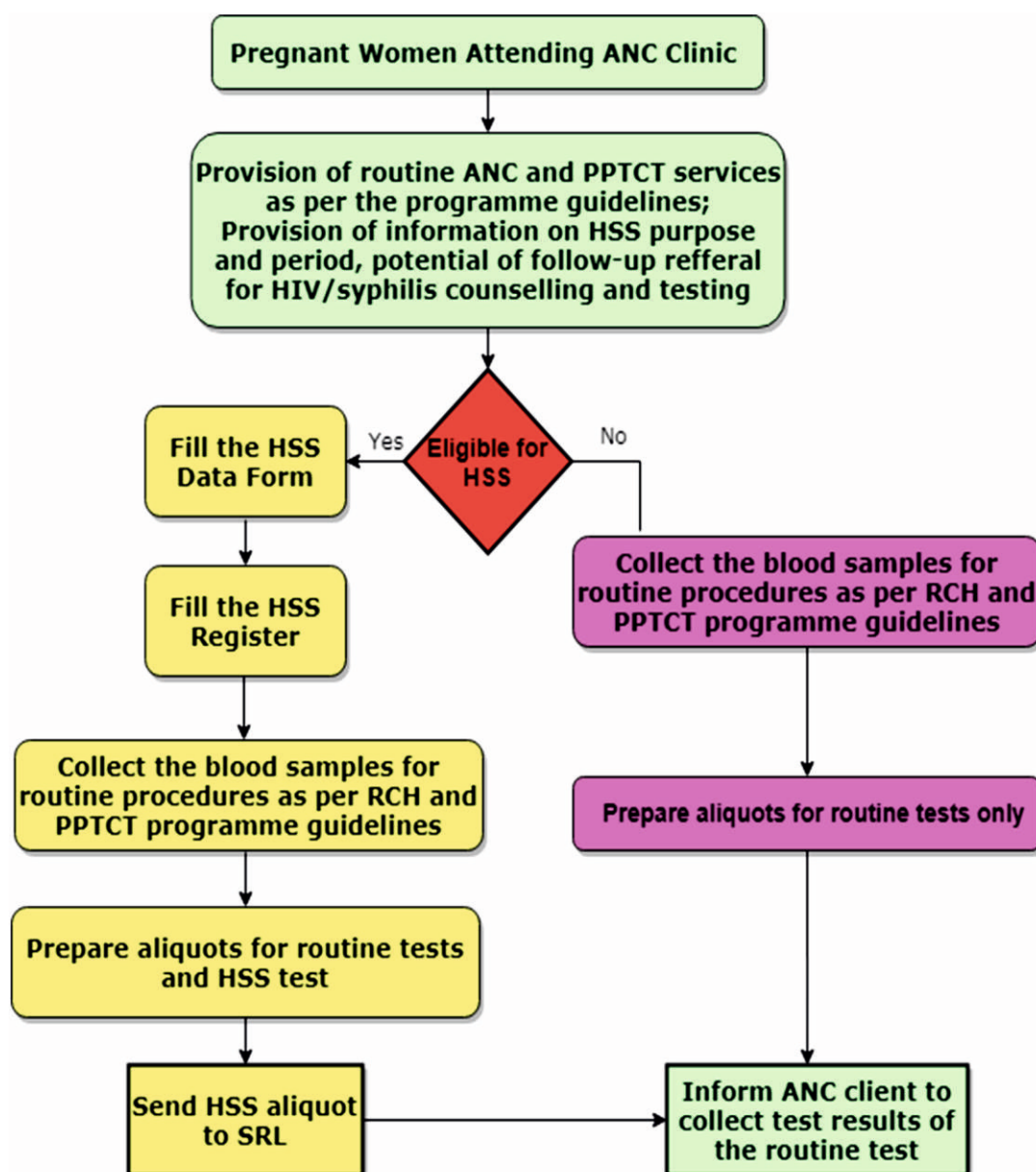
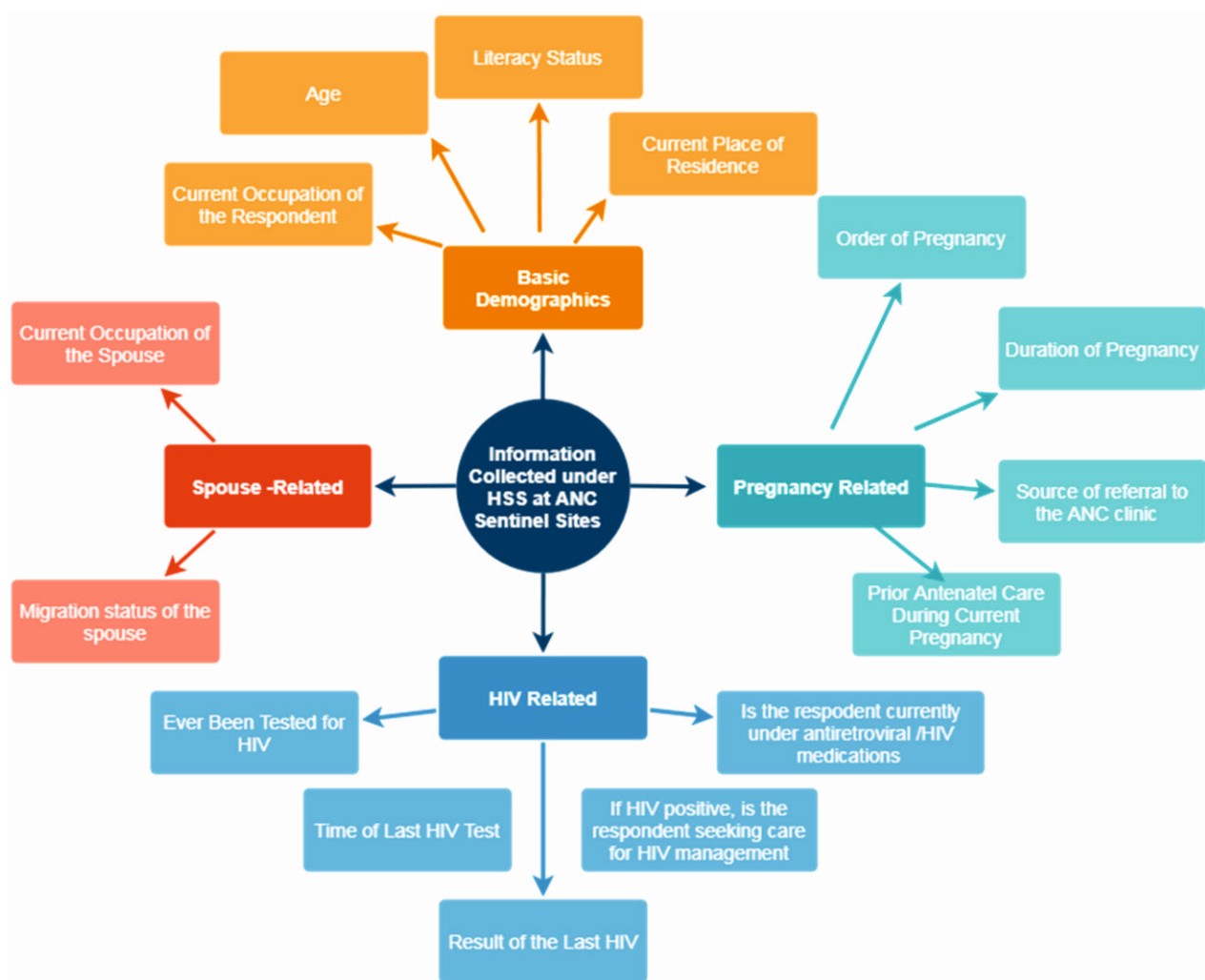


Figure 7: Information Collected under HSS at ANC Sentinel Sites



CHAPTER 3

PROFILE OF ANC ATTENDEES IN TAMIL NADU

Tamil Nadu (TN), situated at South-East India, shares its boundary with Andhra Pradesh, Telangana and Karnataka in the North, Kerala in the West, the Indian Ocean in the south and Pondicherry and the Bay of Bengal in the East. TN has 37 districts with a total area of 130,060 sq. km and a projected population of 72.15 million in 2019. The first HIV case in Tamil Nadu was reported in 1986 and was considered as one of the HIV high prevalent states in India, with heterosexual transmission being the predominant mode of HIV transmission. The pregnant women who attend the ANC clinics are considered proxy for general population and serve as a key indicator of the adult HIV prevalence. TN has pioneered various programmes to bring down the HIV prevalence in the state. As a result, HIV prevalence among pregnant women which was 1.11% in 2002, has gradually declined to 0.18% in 2019.

The section presents findings from the 2019 round of sentinel surveillance among the antenatal clinic attendees in Tamil Nadu. First, the distribution of the respondents by their background characteristics has been presented, followed by HIV and Syphilis sero-positivity. Analysis of these variables is important because they help programme managers and policy makers understand the background characteristics of clinic attendees. Also, they help in the identification of particular characteristics which make respondents more prone to acquiring HIV infection.

Figure 8: HIV Prevalence Trend in Tamil Nadu among ANC Attendees, 2002-19

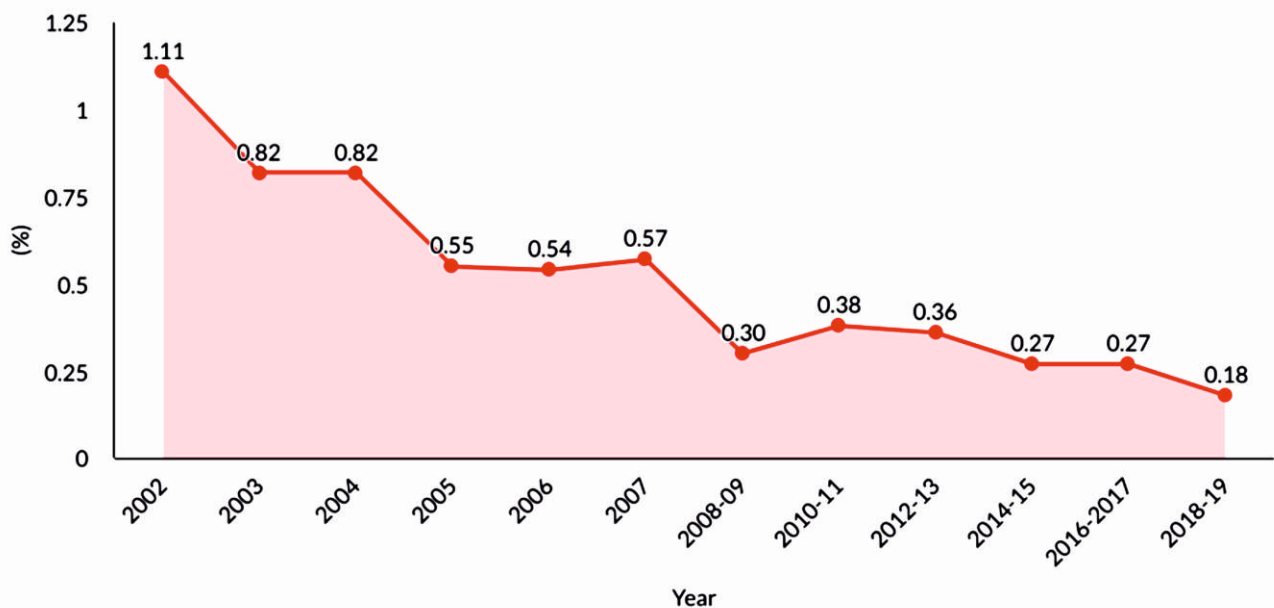


Table 4: Distribution of the respondents by their background characteristics

Tamil Nadu (N=28400)

| Variables | Number | %# |
|---|--------|------|
| Age | | |
| 15-24 | 16390 | 57.7 |
| 25-34 | 11457 | 40.3 |
| 35-44 | 553 | 1.9 |
| 45-49 | 0 | 0.0 |
| Literacy Status | | |
| Illiterate | 539 | 1.9 |
| Literate and till 5 th standard | 1062 | 3.7 |
| 6 th to 10 th standard | 10316 | 36.3 |
| Standard 11 to Graduation | 14068 | 49.5 |
| Post-Graduation | 2405 | 8.5 |
| Order of current pregnancy | | |
| First | 13340 | 47.0 |
| Second | 11321 | 39.9 |
| Third | 2941 | 10.4 |
| Fourth or more | 773 | 2.7 |
| Duration of current pregnancy | | |
| First trimester | 4477 | 15.8 |
| Second trimester | 8756 | 30.8 |
| Third trimester | 15121 | 53.2 |
| Received ANC service during current pregnancy | 46 | 0.2 |
| Yes | 25849 | 91.0 |
| No | 2500 | 8.8 |
| Source of referral to the ANC clinic | | |
| Self-Referral | 5155 | 18.2 |
| Family/ Relatives/ Neighbours/ Friends | 3675 | 12.9 |
| NGO | 3 | 0.0 |
| Private Hospital (Doctor/ Nurses) | 257 | 0.9 |
| Govt. Hospital (including, ASHA/ ANM) | 19159 | 67.5 |
| ICTC / ART Centre | 134 | 0.5 |
| Current place of residence | | |
| Urban | 8732 | 30.7 |
| Rural | 19547 | 68.8 |
| Current occupation of the respondent | | |
| Agricultural Labourer | 207 | 0.7 |
| Non-Agricultural Labourer | 327 | 1.2 |
| Domestic Servant | 21 | 0.1 |
| Skilled / Semi-Skilled Worker | 149 | 0.5 |
| Petty Business / Small Shop Owner | 35 | 0.1 |
| Large Business/SelfEmployed | 10 | 0.0 |
| Service (Government/Private) | 850 | 3.0 |
| Student | 193 | 0.7 |
| Hotel Staff | 9 | 0.0 |
| Truck driver/Helper | 0 | 0.0 |
| Local transport worker(auto/taxi driver, hand cart pullers, rickshaw pullers etc) | 0 | 0.0 |
| Agricultural Cultivator / Landholder | 92 | 0.3 |

| | | |
|---|-------|------|
| Housewife | 26504 | 93.3 |
| Current occupation of the spouse | | |
| Agricultural Labourer | 2337 | 8.2 |
| Non-Agricultural Labourer | 6148 | 21.6 |
| Domestic Servant | 94 | 0.3 |
| Skilled / Semi-skilled Worker | 6030 | 21.2 |
| Petty business / small shop | 1345 | 4.7 |
| Large Business/Self employed | 756 | 2.7 |
| Service (Govt./Pvt.) | 6053 | 21.3 |
| Student | 23 | 0.1 |
| Hotel staff | 809 | 2.8 |
| Truck driver/Helper | 1090 | 3.8 |
| Local transport worker (auto/taxi driver, hand cart pullers, rickshaw pullers etc) | 2829 | 10.0 |
| Agricultural cultivator / landholder | 800 | 2.8 |
| Unemployed | 40 | 0.1 |
| Not Applicable (For Never married/widows/Divorced/Separated) | 35 | 0.1 |
| Spouse resides alone in another place/town from wife for work for longer than 6 months | | |
| Yes | 1449 | 5.1 |
| No | 26915 | 94.8 |
| Not Applicable (For Never married/Widows/Divorced/Separated) | 29 | 0.1 |
| Ever Been tested for HIV | | |
| Yes | 23525 | 82.8 |
| No | 4875 | 17.2 |
| If ever tested HIV, when was the last test taken? | | |
| Tested during current pregnancy | 20131 | 70.9 |
| Consented today | 0 | 0.0 |
| Tested before current pregnancy | 3390 | 11.9 |
| NA (For never tested) | 4875 | 17.2 |
| Result of respondent's last HIV test | | |
| Positive | 46 | 0.2 |
| Negative | 23448 | 82.6 |
| Did not collect the last result | 31 | 0.1 |
| No response | | |
| NA (For never tested/Consented today) | 4875 | 17.2 |
| If previous HIV test positive, taking ART medications | | |
| Yes | 45 | 0.2 |
| No | 1 | 0.00 |
| NA (For never tested or Not positive when last tested/Consented today) | 28354 | 99.8 |
| HIV | | |
| Negative | 28350 | 99.8 |
| Positive | 50 | 0.18 |
| Syphilis | | |
| Negative | 28359 | 99.9 |
| Positive | 41 | 0.14 |

*Total may not add up to 28400 because of missing / no response.
missing response

Total may not add up to 100% because of

CHAPTER 4

DISTRIBUTION AND HIV PREVALENCE BY SOCIO-DEMOGRAPHIC VARIABLES

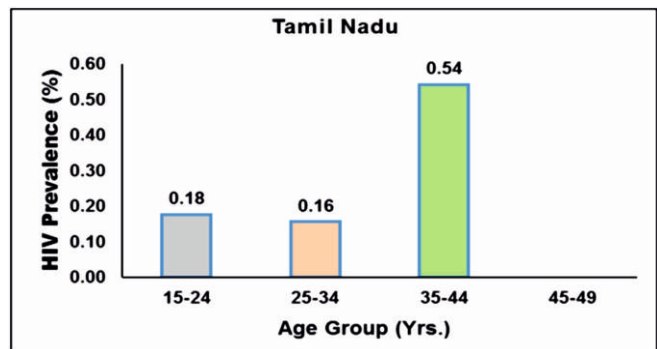
The respondent's background characteristics and HIV prevalence has been presented.

4.1 Distribution and HIV Prevalence by Age Group:

Figure 9: Percentage (%) Distribution of respondents by age group



Figure 10: HIV Prevalence among ANC Clinic Attendees by Age



Age of the respondents ranged from 15 to 44 years with a median age of 24 years. Majority (57.76%) of the respondents were aged from 15 to 24 years and a little more than a third (40.34%) were in the age group of 25-34 years (Figure 9). The HIV prevalence among the former was 0.18% and the later was 0.26% in 25-34. While only 1.90% respondents belonged to the age group of 35-44 years, HIV prevalence among them was 0.54%. None of the respondents were in the age group of 45-49 years (Figure 10).

4.2 Distribution and HIV Prevalence by Literacy Status

Figure 11: Percent Distribution of respondents by educational status

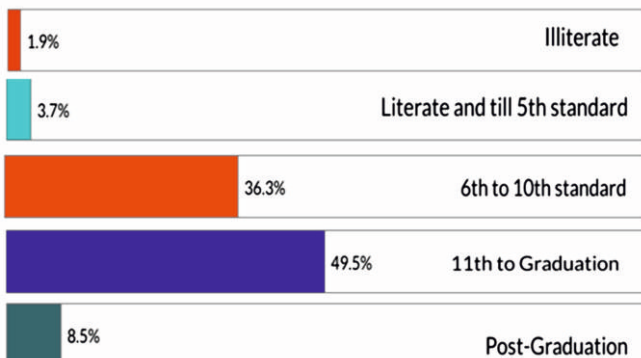
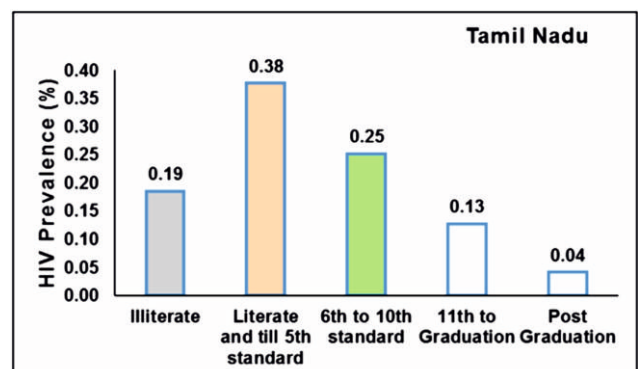


Figure 12: HIV Prevalence (%) among ANC Clinic Attendees by Literacy Status



Nearly half the respondents had higher secondary or undergraduate level of education while over one-third (36.3%) had secondary level education. The HIV prevalence among the former was 0.13% and the later was 0.25%. While only 1.9% were illiterates and 3.7% were educated up to primary levels, 8.5% were post-graduates(Figure 11). The HIV prevalence among them was 0.19%, 0.38% and 0.04% respectively. Predominantly, higher the standard of education level, lower was the HIV prevalence (Figure 12).

4.3 Distribution and HIV Prevalence by Order of Pregnancy

Figure 13: Percent Distribution of respondents by order of pregnancy

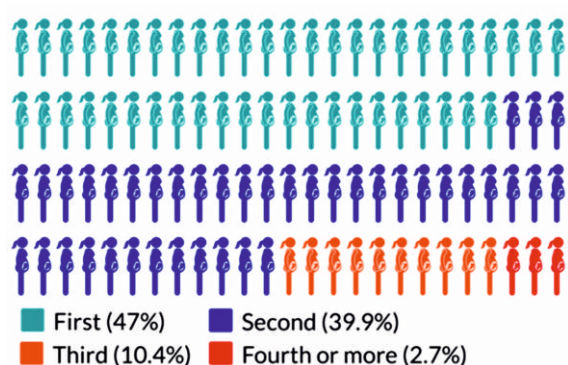
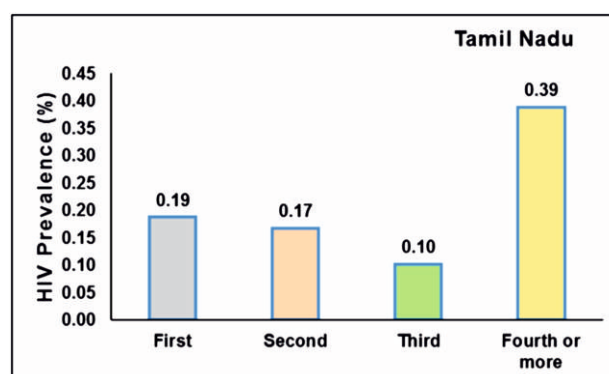


Figure 14: HIV Prevalence (%) among ANC Clinic Attendees by Order of Pregnancy



The order of pregnancy, also known as gravida, is the number of times a woman had become pregnant including live births, still births and abortions. About 47% of the respondents were in their first gravida, 39.9% in their second and 10.4% in their third (Figure 13) with a prevalence of 0.19%, 0.17% and 0.10% respectively. Other higher order pregnancies were only 2.7% with a prevalence of 0.39%(Figure 14).

4.4 Distribution and HIV Prevalence by Duration of Pregnancy:

Figure 15: Percent Distribution of respondents by duration of current pregnancy

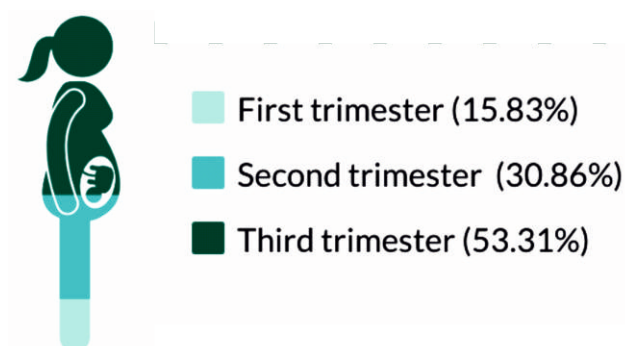
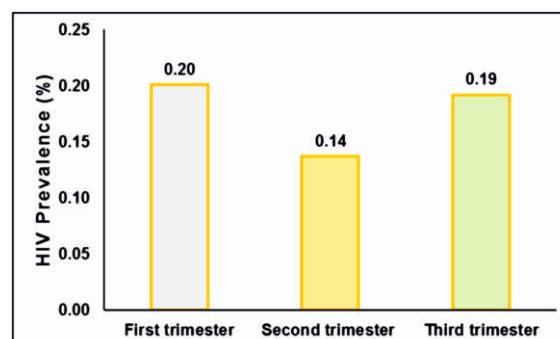


Figure 16: HIV Prevalence (%) among ANC Clinic Attendees by Duration of Pregnancy



Half of the respondents (53.31%) belonged to the third trimester followed by 30.86% in second trimester and 15.83% in the first trimester(Figure 15). However, highest HIV prevalence (0.20%) was recorded among respondents in first trimester, followed by 0.19% in third and 0.14% in second trimesters(Figure 16).

4.5 Distribution and HIV Prevalence by ANC Service Utilization:

Figure 17: Percent Distribution of respondents by ANC Service uptake

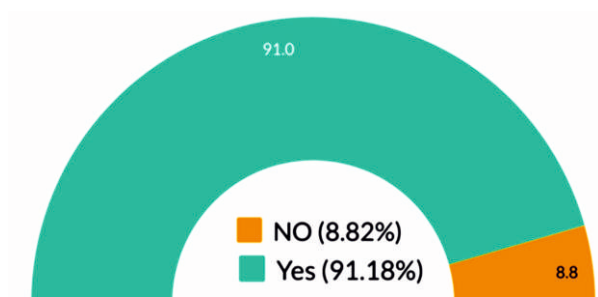
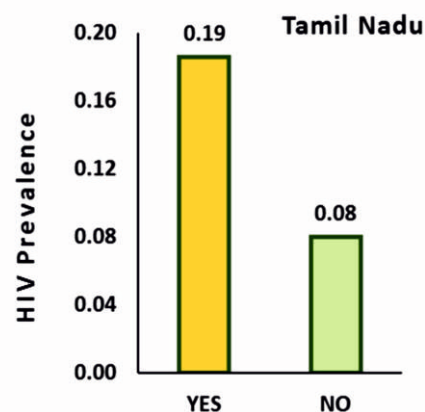


Figure 18: HIV Prevalence (%) among ANC Clinic Attendees by ANC Service uptake



This refers to any prior receipt of antenatal care services from a health care facility (PHC/CHC/District hospitals/Maternity hospitals/Private health care facilities/NGO Health care facilities) by the pregnant women during her current pregnancy. In Tamil Nadu, about 89.18% of respondents had received ANC services during current pregnancy prior to the surveillance whereas 8.82% of respondents had not received prior ANC services (Figure 17). HIV prevalence was 0.19% and 0.08% among respondents who had and had not received prior ANC services, respectively (Figure 18).

4.6 Distribution and HIV Prevalence by Source of Referral:

Figure 19: Percent Distribution of respondents by Source of Referral

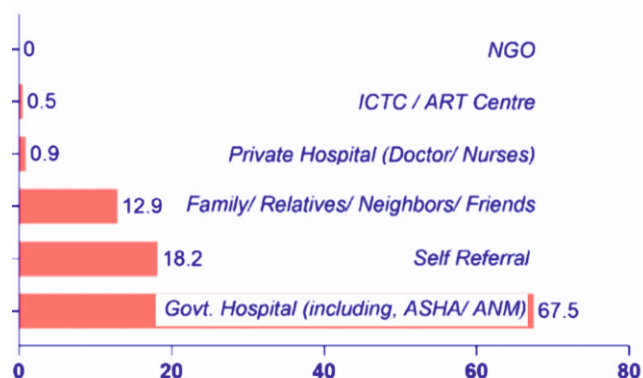
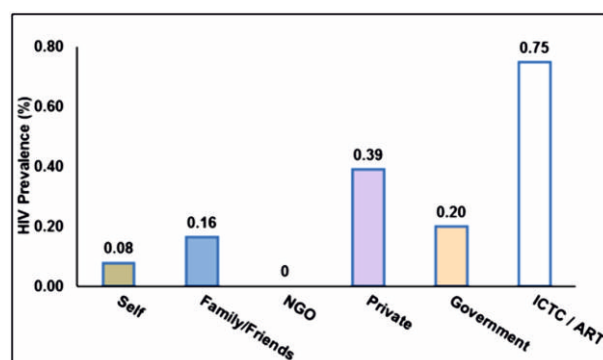


Figure 20: HIV Prevalence (%) among ANC Clinic Attendees by Source of Referral



Knowing the sources of referral helps to identify referral bias introduced being in the sample due to specific referrals of HIV-positive cases from any source. Government based sources including hospital, ANM/ASHA were identified as the major referral source (67.5%) to ANC clinics, followed by self-referral (18.2%), and family/relatives/ neighbour/friends (12.9%)(Figure 19). Highest HIV prevalence (0.75 %) recorded in respondents referred by ICTC/ART centres followed by private ANCs (0.39%) although the proportion referred accounted to only 0.5% and 0.9% respectively (Figure 20).

4.7 Distribution and HIV Prevalence by Place of Residence:

Figure 21: Percent Distribution of respondents by current place of residence

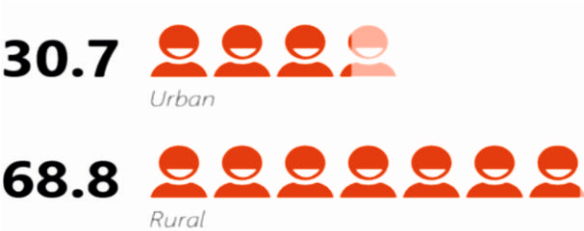
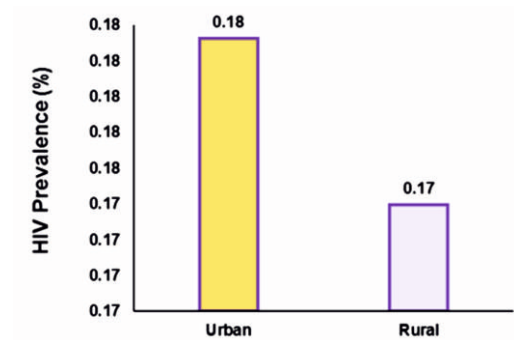


Figure 22: HIV Prevalence (%) among ANC Clinic Attendees by Place of residence



Current residence of the respondent was recorded either as urban or rural. Areas under municipal corporation, municipal council, or cantonment area, were classified as urban and the rest were classified as rural. At the state level, 68.8 % of the respondents reported to be currently residing in rural areas and the rest (34.9%) reported to be currently residing in urban areas. However, there were inter-district variations(Figure 21). HIV prevalence among the urban-resident respondents was 0.18%; whereas it was 0.17% among the rural-resident respondents (Figure 22).

4.8 Distribution and HIV Prevalence by Occupation of the Respondent:

Figure 23: District-wise % distribution of respondents by occupation

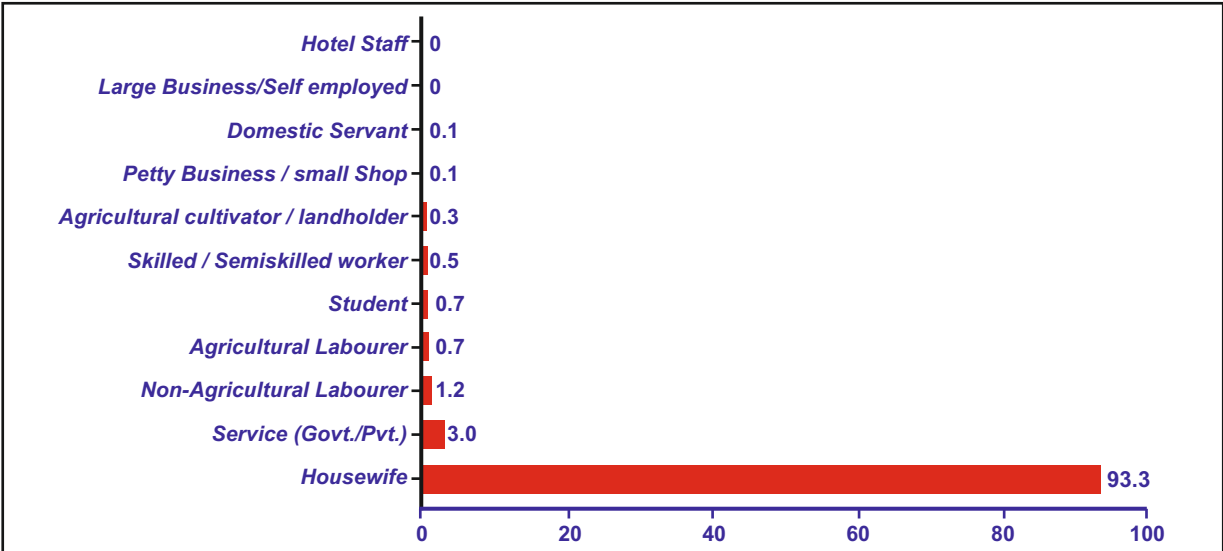
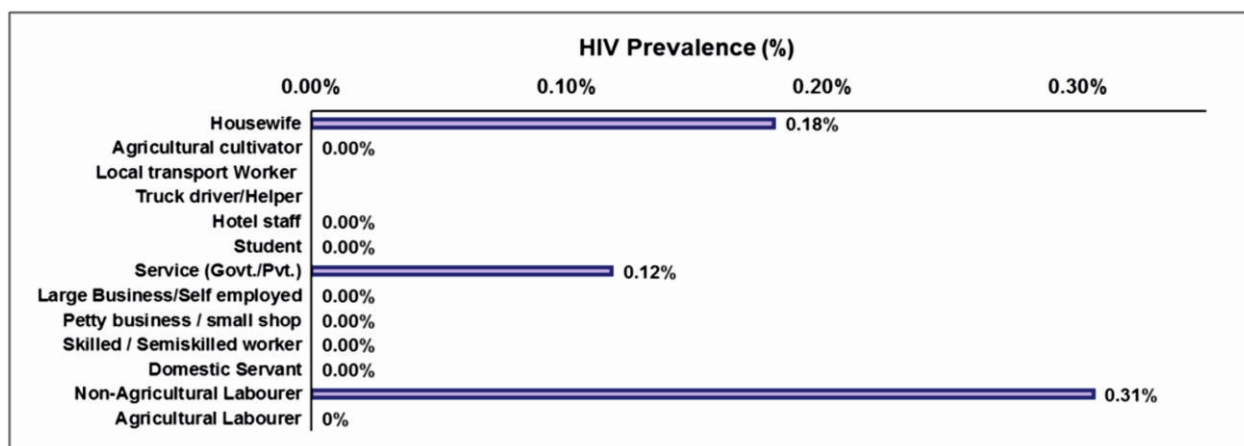


Figure 24: HIV Prevalence (%) among ANC Clinic Attendees by Current Occupation of Respondent



Certain occupations are associated with higher risk of exposure and HIV infection. Hence, understanding the profile of respondents with respect to their occupation, helps to identify specific focus areas. While a vast majority of them were housewives, about 3.0% were in the service sector followed by agricultural labourer and non-agricultural labourer (Figure 23). In Tamil Nadu, the highest HIV prevalence was recorded among pregnant mothers whose current occupation was non-agricultural labourers (0.31%) followed by housewives (0.18%) and those in service sectors (0.12%) (Figure 24).

4.9 Distribution and HIV Prevalence by Occupation of the Respondents' Spouse:

HIV transmission in South India is mainly driven through heterosexual route and pregnant mothers represent the sexually active population. Hence occupation of spouse serves to identify population groups at higher infection risk. The occupation of spouses of nearly two-thirds of ANC corresponded to non-agricultural labourers (21.6%), service sector (21.3%) and skilled/semi-skilled workers (21.2%), while 10 % were local transport workers, 8.2% were agricultural labourers and 3.2% were truckers. While 4.7% were petty or small business owners, agricultural cultivators, hotel staffs and large business owners accounted to nearly 3% each (Figure 25). HIV prevalence was the highest among the ANC attendees whose spouses were local transport workers (0.39%) followed by hotel staffs (0.37%). The prevalence ranged from 0.07% to 0.25% among respondents whose spouses were agricultural / non-agricultural labourers, agricultural cultivators, truckers, skilled or semi-skilled workers, Petty / small shop owners and service sector employees (Figure 26).

Figure 25: Percentage distribution of respondents by the Occupation of spouse

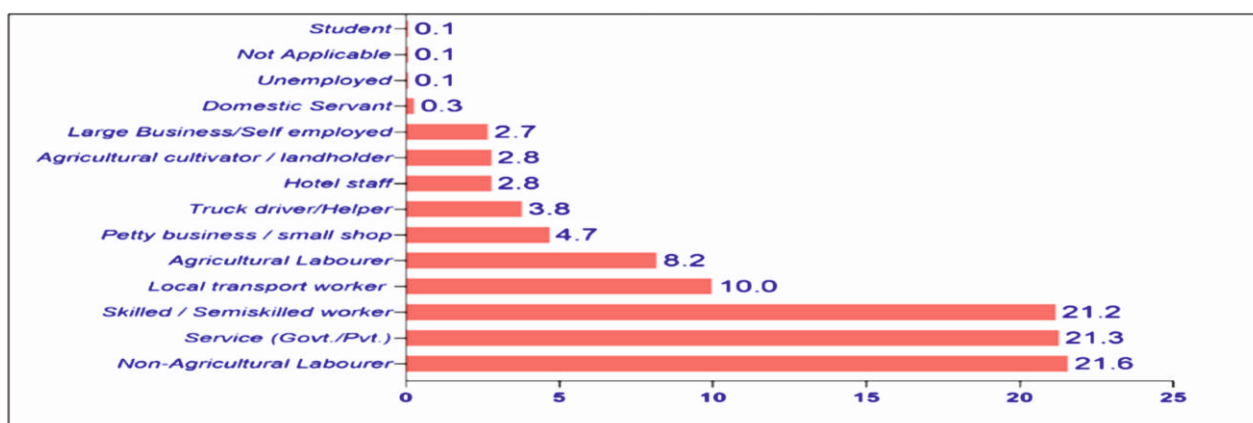
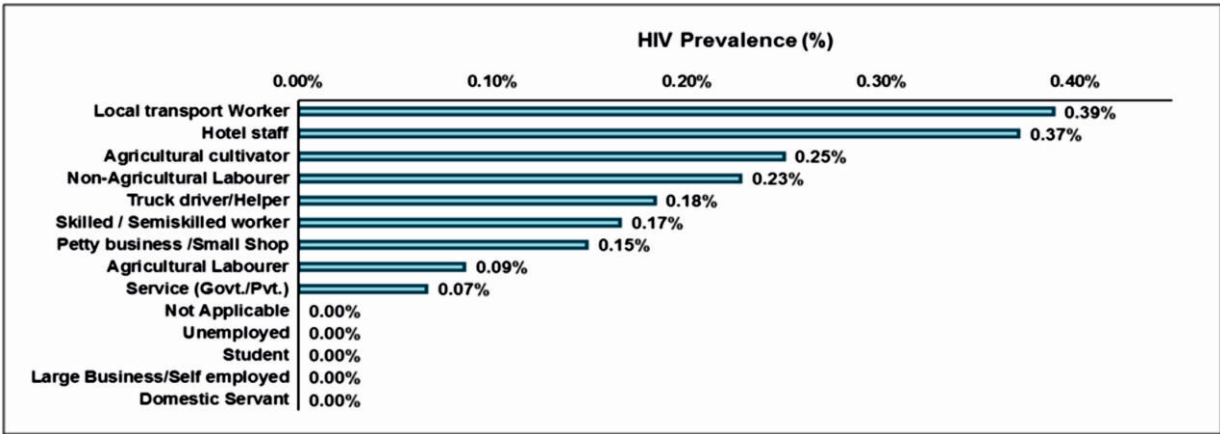


Figure 26: HIV Prevalence among ANC Clinic Attendees by Current Occupation of Spouse



4.10 Distribution and HIV Prevalence by Migration Status of the Respondents' Spouse:

The spouse of the respondent is considered to be a migrant if he resides alone in another place or town away from wife for work for longer than 6 months. In TN, during HSS 2019, 94.8% of the pregnant women reported their husbands to be non-migrants while the spouses of 5.1% pregnant women were migrants(Figure 27). While the HIV prevalence among pregnant women with migrant spouses was 0.14%, that of the pregnant women with non-migrant spouses was 0.18%(Figure 28).

Figure 27: Percentage of respondents with migrant spouse

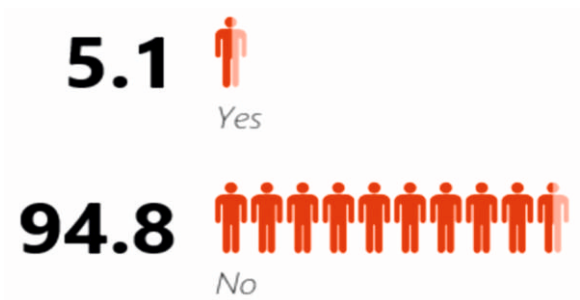
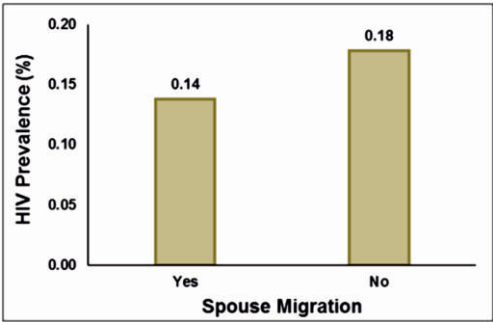


Figure 28: HIV Prevalence among ANC Clinic Attendees by Migration status of Spouse

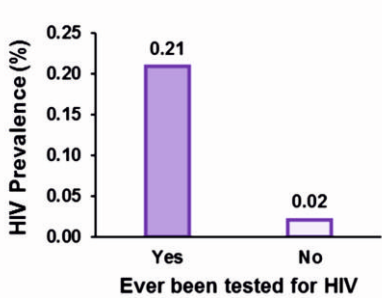


4.11 Distribution and HIV Prevalence by HIV Test History:

Figure 29: Percent Distribution of respondents by HIV testing history



Figure 30: HIV Prevalence by HIV Test History



HIV Testing has been mandated for all pregnant mothers. With reference to their previous HIV test history, 82.8% of the respondents were already tested for HIV, prior to the current surveillance(Figure 29). HIV prevalence among those who had previously tested for HIV was 0.21%(Figure 30).

Figure 31: Percentage of respondents with migrant spouse

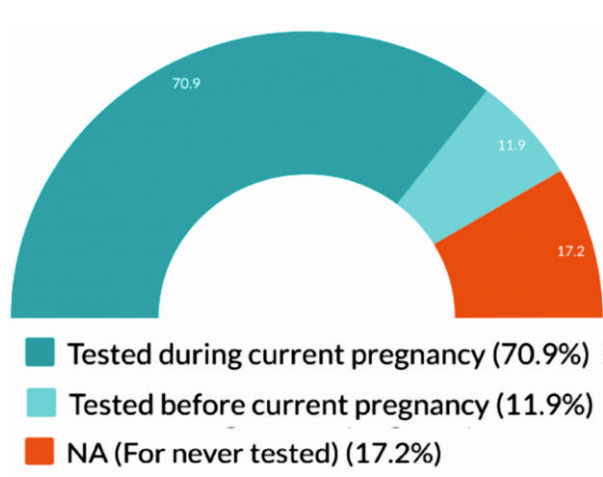
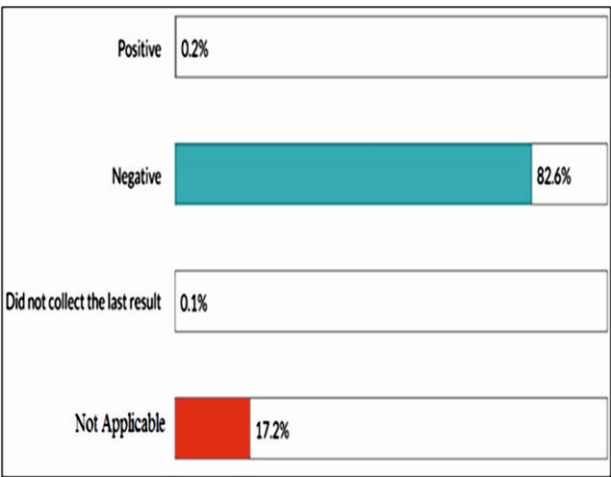


Figure 32: HIV Prevalence among ANC Clinic Attendees by Migration status of Spouse



Among the respondents, 70.9% had tested for HIV prior to the surveillance during current pregnancy while 11.9% had tested before current pregnancy, whereas 17.2% had not tested for HIV(Figure 31).Of the total respondents, 82.8% had last tested for HIV, prior to the current surveillance, 82.6% were HIV Negative, 0.2% were HIV positive, 0.1% had not collected the results of the last HIV test(Figure 32).

4.12 Distribution and HIV Prevalence by HIV Management:

Based on the result of the last HIV test of the respondents, 46 pregnant women were reported to be known-positives. HIV management related information were gathered from known-positive respondents. With reference to the enrolment of HIV positive respondents in any HIV care, either for pre-ART or ART services, at the time of surveillance, 97.8% (n=45) of them, were taking care from Government hospital/ART centres, 2.2% (n=1) were not seeking any care for HIV management. With reference to the current uptake of ‘Antiretroviral therapy’ or HIV medications, 97.8% (n=45) of them, were taking ART or HIV medications, whereas 2.2% (n=1) were not taking any HIV medications.

CHAPTER 5

5.1 District-wise Distribution of Respondents, HIV Prevalence and Trend

The national, state and district response to the HIV epidemic is guided by data obtained through HIV Sentinel Surveillance (HSS). The HIV epidemic in India continues to be concentrated among HRG with low level and declining prevalence among general population. Over time, HIV Sentinel Surveillance has offered vital clues to newer areas where HIV was emerging, highlighting rising trends in certain districts or regions.

This chapter gives district-wise distribution of respondents, HIV prevalence and its trend details as observed against the key fifteen socio-demographic variables which were recorded for each respondent. Data from the year 2002 has been used for trend analysis. Data from only consistent sites was used for trend analysis as it avoids the effect of addition of new sites on HIV prevalence in subsequent years, and hence provides a better picture of HIV trends in a district. Though there was a clear declining trend seen in Tamil Nadu, within the state, there are variations in HIV prevalence among the districts (Figure 33-34) (Table 5-31). A detailed district-wise analysis by applying local knowledge about vulnerabilities and risk factors, will be needed to understand heterogeneity of the disease and inter-district variations, which is essential for planning district strategies in HIV prevention and control.

Figure 33: District-wise HIV Prevalence in Tamil Nadu, 2019

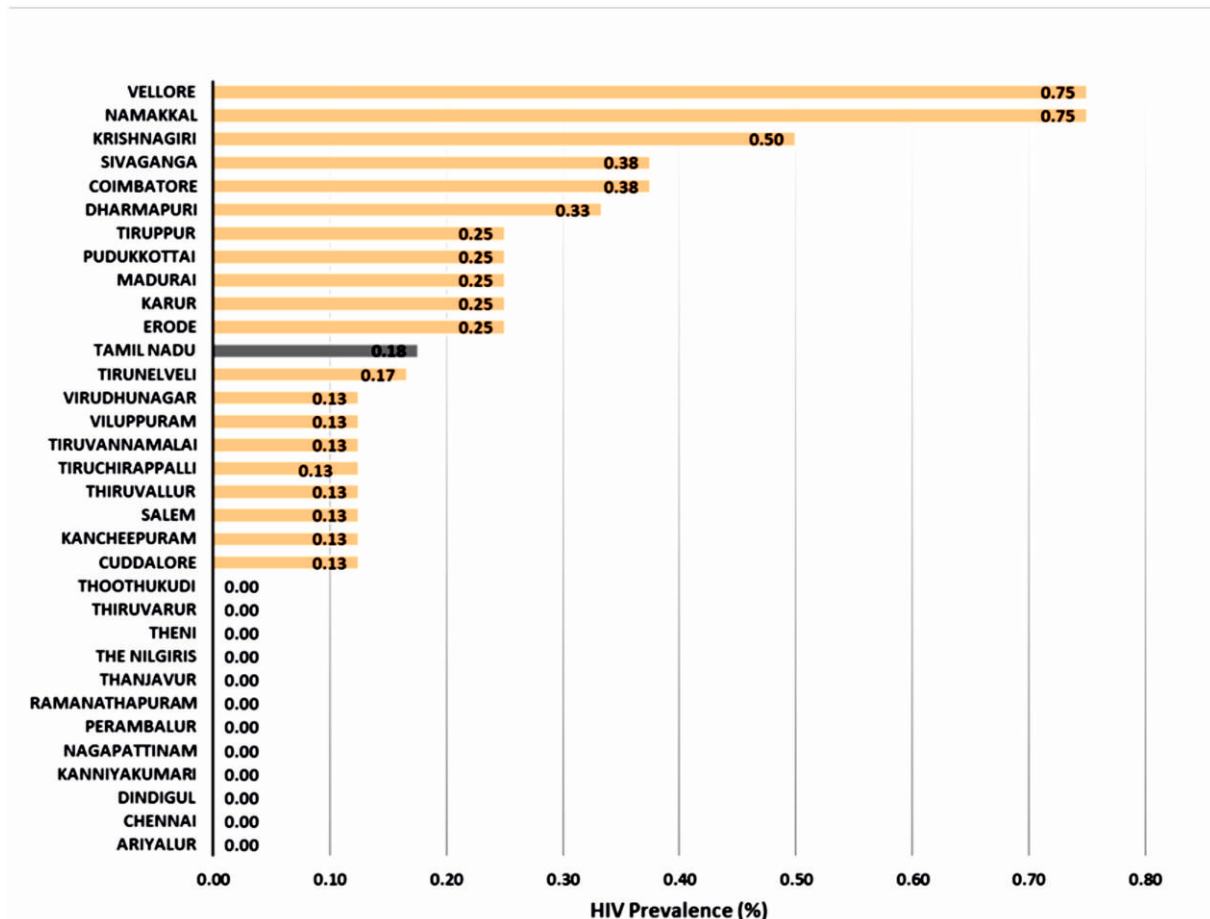


Figure 34: Spatial Representation of district-wise HIV Prevalence in Tamil Nadu, 2019

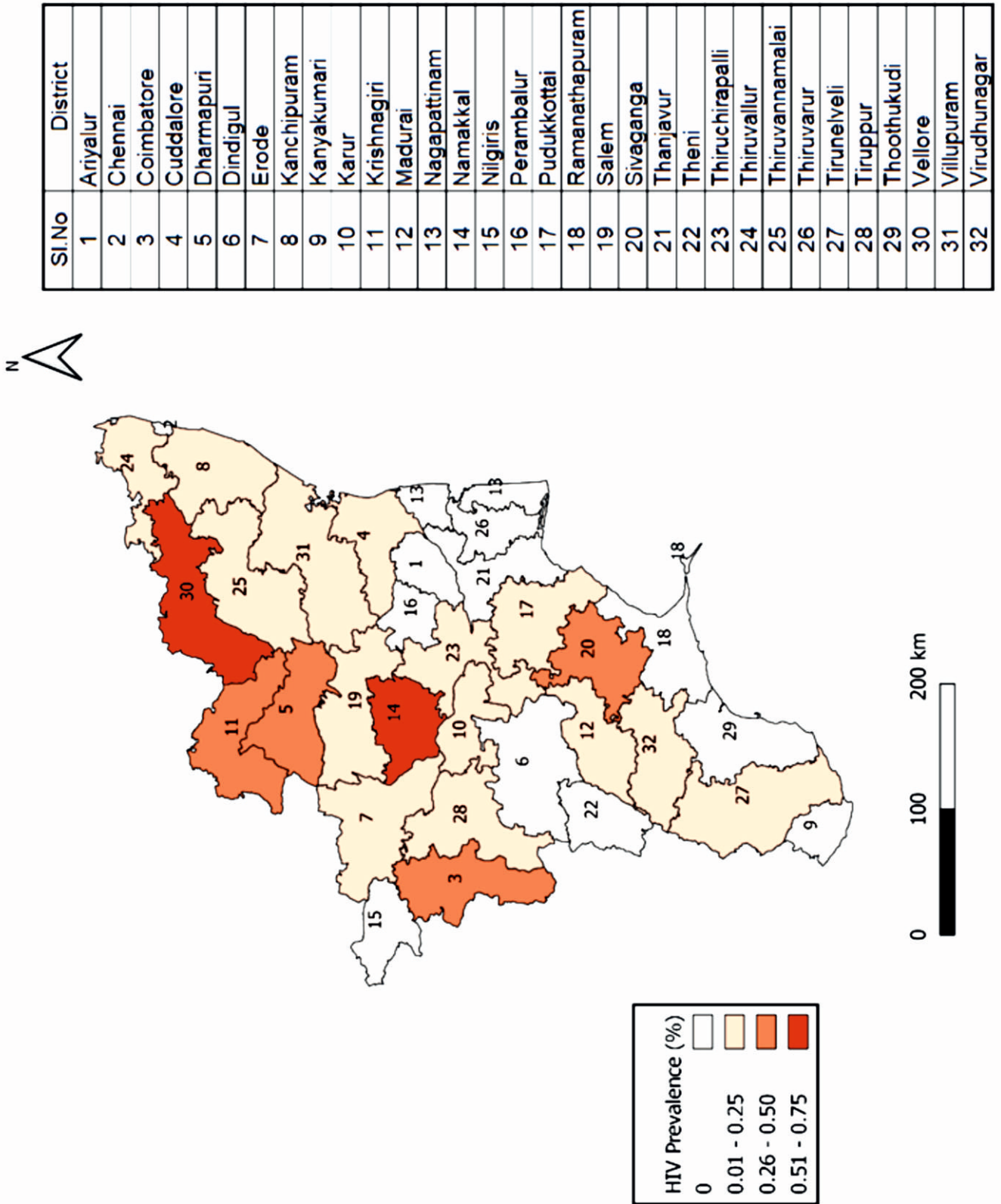


Table 5: District -wise HIV Prevalence trend 2002-2019(%)

| District | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ariyalur | | 1.28 | 1.00 | 0.00 | 0.50 | 0.75 | 0.00 | 0.25 | 0.25 | 0.13 | 0.00 | 0.00 |
| Chennai | 0.50 | 0.00 | 0.13 | 0.25 | 0.13 | 0.50 | 0.13 | 0.17 | 0.42 | 0.33 | 0.63 | 0.00 |
| Coimbatore | 0.50 | 0.63 | 0.67 | 0.33 | 0.58 | 0.25 | 0.33 | 0.94 | 0.19 | 0.19 | 0.50 | 0.38 |
| Cuddalore | 0.25 | 0.63 | 0.75 | 0.63 | 0.00 | 0.25 | 0.13 | 0.25 | 0.13 | 0.38 | 0.25 | 0.13 |
| Dharmapuri | | | 0.88 | 0.50 | 0.38 | 0.38 | 0.25 | 0.92 | 0.58 | 0.83 | 0.33 | 0.33 |
| Dindigul | 0.75 | 0.75 | 0.75 | 0.50 | 0.38 | 0.38 | 0.25 | 0.25 | 0.25 | 0.13 | 0.13 | 0.00 |
| Erode | | 0.13 | 0.50 | 0.63 | 0.75 | 0.38 | 0.50 | 0.50 | 1.63 | 0.25 | 0.50 | 0.25 |
| Kancheepuram | | 0.25 | 0.38 | 0.00 | 0.00 | 0.00 | 0.25 | 0.13 | 0.00 | 0.13 | 0.13 | 0.13 |
| Kanyakumari | | 0.00 | 0.50 | 0.00 | 0.08 | 0.17 | 0.00 | 0.17 | 0.51 | 0.08 | 0.00 | 0.00 |
| Karur | | 0.75 | 3.00 | 1.13 | 0.88 | 0.38 | 1.00 | 0.25 | 0.00 | 0.00 | 0.13 | 0.25 |
| Krishnagiri | | 1.38 | 0.88 | 0.75 | 1.13 | 1.13 | 0.00 | 0.75 | 0.38 | 0.50 | 0.25 | 0.50 |
| Madurai | | 1.01 | 1.36 | 1.25 | 0.25 | 0.00 | 0.50 | 0.38 | 0.25 | 0.63 | 0.38 | 0.25 |
| Nagapattinam | | 0.25 | 0.50 | 0.00 | 0.25 | 0.13 | 0.00 | 0.00 | 0.50 | 0.13 | 0.00 | 0.00 |
| Namakkal | 4.01 | 3.13 | 1.63 | 1.75 | 1.75 | 2.00 | 0.63 | 0.75 | 0.75 | 0.50 | 0.50 | 0.75 |
| Perambalur | | 0.50 | 1.25 | 1.50 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pudukkottai | 0.25 | 1.00 | 0.63 | 0.63 | 0.75 | 0.63 | 0.38 | 0.13 | 0.50 | 0.13 | 0.38 | 0.25 |
| Ramanathapuram | | 0.50 | 0.63 | 0.50 | 0.13 | 1.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.13 | 0.00 |
| Salem | 1.50 | 0.38 | 1.63 | 0.63 | 2.25 | 2.25 | 0.50 | 1.50 | 1.50 | 0.75 | 0.38 | 0.13 |
| Sivaganga | | 0.25 | 1.25 | 0.25 | 0.50 | 0.63 | 0.75 | 0.38 | 0.13 | 0.37 | 0.38 | 0.38 |
| Thanjavur | | 1.88 | 0.63 | 0.00 | 0.38 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| The Nilgiris | | 0.25 | 0.63 | 0.75 | 0.38 | 0.25 | 0.38 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 |
| Theni | | 1.25 | 1.38 | 0.63 | 1.13 | 1.25 | 0.25 | 0.50 | 0.00 | 0.00 | 0.13 | 0.00 |
| Thiruvallur | | 0.50 | 0.75 | 0.50 | 0.75 | 0.25 | 0.63 | 0.25 | 0.00 | 0.00 | 0.00 | 0.13 |
| Thiruvavarur | | 0.50 | 0.13 | 0.25 | 0.00 | 0.00 | 0.25 | 0.00 | 0.63 | 0.13 | 0.13 | 0.00 |
| Thoothukkudi | | 0.76 | 0.75 | 0.13 | 0.25 | 0.38 | 0.38 | 0.13 | 0.13 | 0.12 | 0.00 | 0.00 |
| Tiruchirappalli | | 1.13 | 0.75 | 0.75 | 1.33 | 0.83 | 0.42 | 0.69 | 0.63 | 0.19 | 0.50 | 0.13 |
| Tirunelveli | 1.25 | 1.25 | 0.25 | 0.50 | 0.25 | 0.00 | 0.00 | 0.33 | 0.42 | 0.56 | 0.58 | 0.17 |
| Tiruppur | | | | | | | | | 0.25 | 0.13 | 0.50 | 0.25 |
| Tiruvannamalai | | 1.25 | 1.38 | 0.88 | 0.37 | 1.00 | 0.13 | 0.00 | 0.25 | 0.00 | 0.25 | 0.13 |
| Vellore | 1.00 | 0.89 | 0.63 | 0.88 | 0.13 | 0.88 | 0.38 | 0.75 | 0.50 | 0.50 | 0.25 | 0.75 |
| Vilupuram | | 1.00 | 0.38 | 0.50 | 0.25 | 0.38 | 0.00 | 0.38 | 0.38 | 0.75 | 0.38 | 0.13 |
| Virudhunagar | | 0.00 | 0.25 | 0.50 | 0.13 | 0.63 | 0.13 | 0.00 | 0.13 | 0.00 | 0.38 | 0.13 |

Table 6: District-wise distribution of respondents based on the age group (%)

| Districts | 15-24 | 25-34 | 35-44 | 45-49 | Total |
|-------------------|-------------|-------------|------------|----------|--------------|
| Tamil Nadu | 57.7 | 40.3 | 1.9 | 0 | 28400 |
| Ariyalur | 52.4 | 46.1 | 1.5 | 0 | 800 |
| Chennai | 73.1 | 25.4 | 1.5 | 0 | 800 |
| Coimbatore | 64.3 | 33.1 | 2.6 | 0 | 1600 |
| Cuddalore | 42.4 | 56.4 | 1.3 | 0 | 800 |
| Dharmapuri | 80.4 | 19.0 | 0.6 | 0 | 1200 |
| Dindigul | 60.8 | 37.6 | 1.6 | 0 | 800 |
| Erode | 57.6 | 39.1 | 3.3 | 0 | 800 |
| Kancheepuram | 50.5 | 46.5 | 3.0 | 0 | 800 |
| Kanniyakumari | 34.3 | 61.6 | 4.2 | 0 | 1200 |
| Karur | 54.5 | 43.3 | 2.3 | 0 | 800 |
| Krishnagiri | 66.0 | 33.4 | 0.6 | 0 | 800 |
| Madurai | 63.0 | 35.8 | 1.3 | 0 | 800 |
| Nagapattinam | 53.8 | 45.5 | 0.8 | 0 | 800 |
| Namakkal | 64.6 | 33.3 | 2.1 | 0 | 800 |
| Perambalur | 57.4 | 41.5 | 1.1 | 0 | 800 |
| Pudukkottai | 48.0 | 50.4 | 1.6 | 0 | 800 |
| Ramanathapuram | 57.3 | 40.8 | 2.0 | 0 | 800 |
| Salem | 59.8 | 37.8 | 2.5 | 0 | 800 |
| Sivaganga | 50.4 | 47.1 | 2.5 | 0 | 800 |
| Thanjavur | 45.9 | 52.3 | 1.9 | 0 | 800 |
| The Nilgiris | 51.3 | 46.4 | 2.4 | 0 | 800 |
| Theni | 69.6 | 29.9 | 0.5 | 0 | 800 |
| Thiruvallur | 62.3 | 35.9 | 1.9 | 0 | 800 |
| Thiruvarur | 41.0 | 57.6 | 1.4 | 0 | 800 |
| Thoothukudi | 57.3 | 40.6 | 2.1 | 0 | 800 |
| Tiruchirappalli | 59.4 | 38.1 | 2.5 | 0 | 1600 |
| Tirunelveli | 64.7 | 33.5 | 1.8 | 0 | 1200 |
| Tiruppur | 67.1 | 31.8 | 1.1 | 0 | 800 |
| Tiruvannamalai | 57.3 | 39.8 | 3.0 | 0 | 800 |
| Vellore | 57.8 | 40.4 | 1.9 | 0 | 800 |
| Viluppuram | 52.3 | 45.0 | 2.8 | 0 | 800 |
| Virudhunagar | 59.4 | 39.4 | 1.3 | 0 | 800 |

Table 7: District-wise distribution of respondents based on the literacy status (%)

| Districts | Literacy Status (%) | | | | | N |
|-------------------|---------------------|--------------------------------|----------------------|--------------------|-----------------|--------------|
| | Illiterate | Literate and till 5th standard | 6th to 10th standard | 11th to Graduation | Post Graduation | |
| Tamil Nadu | 1.9 | 3.7 | 36.3 | 49.6 | 8.5 | 28400 |
| Ariyalur | 2.6 | 2.0 | 35.3 | 32.8 | 27.4 | 800 |
| Chennai | 0.9 | 2.5 | 38.0 | 52.9 | 5.8 | 800 |
| Coimbatore | 1.3 | 3.0 | 27.0 | 55.4 | 13.3 | 1600 |
| Cuddalore | 1.5 | 4.1 | 38.4 | 46.9 | 9.1 | 800 |
| Dharmapuri | 1.3 | 2.9 | 31.5 | 56.2 | 8.1 | 1200 |
| Dindigul | 2.0 | 4.3 | 38.5 | 49.0 | 6.3 | 800 |
| Erode | 5.0 | 5.8 | 42.1 | 44.4 | 2.8 | 800 |
| Kancheepuram | 1.8 | 2.9 | 33.9 | 47.9 | 13.6 | 800 |
| Kanniyakumari | 0.0 | 1.8 | 20.5 | 57.1 | 20.6 | 1200 |
| Karur | 2.3 | 4.3 | 40.8 | 46.9 | 5.9 | 800 |
| Krishnagiri | 5.8 | 3.4 | 41.5 | 44.0 | 5.4 | 800 |
| Madurai | 1.0 | 4.0 | 39.3 | 51.5 | 4.3 | 800 |
| Nagapattinam | 0.8 | 2.4 | 36.3 | 51.8 | 8.9 | 800 |
| Namakkal | 2.4 | 6.4 | 36.3 | 48.9 | 6.1 | 800 |
| Perambalur | 0.4 | 3.4 | 30.5 | 55.9 | 9.9 | 800 |
| Pudukkottai | 1.5 | 1.3 | 39.1 | 50.0 | 8.1 | 800 |
| Ramanathapuram | 0.4 | 3.0 | 36.3 | 55.5 | 4.9 | 800 |
| Salem | 3.1 | 6.6 | 30.8 | 52.8 | 6.8 | 800 |
| Sivaganga | 1.4 | 1.0 | 29.0 | 58.8 | 9.9 | 800 |
| Thanjavur | 0.8 | 2.9 | 36.9 | 48.4 | 11.1 | 800 |
| The Nilgiris | 1.4 | 4.5 | 39.0 | 48.8 | 6.4 | 800 |
| Theni | 0.3 | 2.1 | 32.8 | 57.6 | 7.3 | 800 |
| Thiruvallur | 2.1 | 4.0 | 36.1 | 51.9 | 5.9 | 800 |
| Thiruvarur | 0.8 | 2.8 | 38.3 | 47.5 | 10.8 | 800 |
| Thoothukudi | 1.4 | 5.1 | 39.5 | 49.4 | 4.6 | 800 |
| Tiruchirappalli | 3.4 | 3.4 | 33.7 | 49.1 | 10.5 | 1600 |
| Tirunelveli | 0.8 | 4.4 | 41.5 | 48.5 | 4.7 | 1200 |
| Tiruppur | 2.4 | 4.6 | 44.8 | 44.2 | 4.0 | 800 |
| Tiruvannamalai | 2.6 | 3.9 | 41.7 | 46.7 | 5.1 | 800 |
| Vellore | 2.3 | 8.3 | 48.7 | 37.5 | 3.3 | 800 |
| Viluppuram | 6.0 | 5.3 | 46.8 | 37.5 | 4.5 | 800 |
| Virudhunagar | 2.4 | 5.6 | 38.2 | 48.4 | 5.4 | 800 |

Table 8: Districtwise distribution of respondents based on order of Pregnancy (%)

| State/District | First | Second | Third | Fourth or more | N |
|-------------------|-------------|-------------|-------------|----------------|--------------|
| Tamil Nadu | 47.0 | 39.9 | 10.4 | 2.7 | 28400 |
| Ariyalur | 47.0 | 38.5 | 10.9 | 3.5 | 800 |
| Chennai | 51.8 | 32.6 | 10.6 | 5.0 | 800 |
| Coimbatore | 53.4 | 34.1 | 9.8 | 2.8 | 1600 |
| Cuddalore | 40.5 | 46.9 | 9.8 | 2.9 | 800 |
| Dharmapuri | 45.5 | 40.8 | 11.1 | 2.6 | 1200 |
| Dindigul | 49.6 | 40.8 | 7.1 | 2.5 | 800 |
| Erode | 45.3 | 40.5 | 10.8 | 3.5 | 800 |
| Kancheepuram | 55.0 | 37.0 | 6.8 | 1.1 | 800 |
| Kanniyakumari | 43.4 | 44.3 | 9.2 | 2.9 | 1200 |
| Karur | 40.9 | 39.4 | 16.0 | 3.8 | 800 |
| Krishnagiri | 35.4 | 48.3 | 13.0 | 3.4 | 800 |
| Madurai | 48.0 | 40.5 | 9.5 | 2.0 | 800 |
| Nagapattinam | 49.8 | 40.1 | 7.8 | 2.4 | 800 |
| Namakkal | 45.6 | 38.8 | 12.0 | 3.6 | 800 |
| Perambalur | 39.0 | 45.1 | 12.8 | 3.1 | 800 |
| Pudukkottai | 51.1 | 39.9 | 7.4 | 1.6 | 800 |
| Ramanathapuram | 47.3 | 44.8 | 7.5 | 0.4 | 800 |
| Salem | 42.0 | 42.5 | 12.4 | 3.0 | 800 |
| Sivaganga | 47.9 | 39.8 | 11.0 | 1.4 | 800 |
| Thanjavur | 48.0 | 39.4 | 10.3 | 2.4 | 800 |
| The Nilgiris | 49.5 | 43.8 | 5.0 | 1.0 | 800 |
| Theni | 47.4 | 37.4 | 13.0 | 2.3 | 800 |
| Thiruvallur | 44.4 | 42.3 | 10.1 | 3.0 | 800 |
| Thiruvarur | 48.1 | 43.0 | 7.3 | 1.3 | 800 |
| Thoothukudi | 49.1 | 39.9 | 8.4 | 2.6 | 800 |
| Tiruchirappalli | 49.8 | 37.3 | 10.0 | 2.7 | 1600 |
| Tirunelveli | 54.8 | 34.9 | 8.9 | 1.4 | 1200 |
| Tiruppur | 46.9 | 39.0 | 11.4 | 2.8 | 800 |
| Tiruvannamalai | 45.5 | 37.4 | 12.0 | 5.0 | 800 |
| Vellore | 42.3 | 36.1 | 17.6 | 3.9 | 800 |
| Viluppuram | 35.6 | 41.1 | 17.5 | 5.8 | 800 |
| Virudhunagar | 52.9 | 37.9 | 6.8 | 2.4 | 800 |

Table 9: District-wise distribution of respondents based on the Duration of Pregnancy (%)

| State/District | First trimester | Second trimester | Third trimester | N |
|-------------------|-----------------|------------------|-----------------|--------------|
| Tamil Nadu | 15.8 | 30.8 | 53.2 | 28400 |
| Ariyalur | 17.8 | 38.4 | 43.9 | 800 |
| Chennai | 10.8 | 24.5 | 64.8 | 800 |
| Coimbatore | 23.6 | 35.4 | 40.9 | 1600 |
| Cuddalore | 28.0 | 35.5 | 36.3 | 800 |
| Dharmapuri | 7.0 | 34.3 | 58.7 | 1200 |
| Dindigul | 13.5 | 22.8 | 63.8 | 800 |
| Erode | 17.1 | 26.0 | 56.9 | 800 |
| Kancheepuram | 14.5 | 32.5 | 53.0 | 800 |
| Kanniyakumari | 21.8 | 26.5 | 51.7 | 1200 |
| Karur | 14.0 | 31.6 | 54.4 | 800 |
| Krishnagiri | 8.3 | 20.9 | 70.9 | 800 |
| Madurai | 13.9 | 44.4 | 41.8 | 800 |
| Nagapattinam | 10.9 | 32.9 | 56.3 | 800 |
| Namakkal | 11.8 | 25.4 | 62.8 | 800 |
| Perambalur | 17.5 | 43.1 | 39.3 | 800 |
| Pudukkottai | 5.5 | 37.4 | 57.1 | 800 |
| Ramanathapuram | 16.4 | 30.0 | 53.0 | 800 |
| Salem | 10.4 | 31.6 | 57.6 | 800 |
| Sivaganga | 7.1 | 26.3 | 66.4 | 800 |
| Thanjavur | 7.1 | 32.8 | 60.0 | 800 |
| The Nilgiris | 19.0 | 32.5 | 47.3 | 800 |
| Theni | 16.8 | 34.3 | 49.0 | 800 |
| Thiruvallur | 20.8 | 20.6 | 58.6 | 800 |
| Thiruvarur | 13.9 | 27.5 | 58.4 | 800 |
| Thoothukudi | 24.0 | 31.0 | 45.0 | 800 |
| Tiruchirappalli | 17.0 | 24.7 | 57.9 | 1600 |
| Tirunelveli | 12.4 | 30.8 | 56.7 | 1200 |
| Tiruppur | 23.3 | 29.4 | 47.3 | 800 |
| Tiruvannamalai | 24.0 | 35.8 | 40.1 | 800 |
| Vellore | 18.1 | 37.3 | 43.9 | 800 |
| Viluppuram | 10.3 | 21.5 | 68.0 | 800 |
| Virudhunagar | 22.4 | 31.1 | 46.5 | 800 |

Table 10: District -wise distribution of respondents based on the Prior ANC service uptake (%)

| State/District | Yes | No | Total |
|-------------------|-------------|------------|--------------|
| Tamil Nadu | 91.0 | 8.8 | 28400 |
| Ariyalur | 64.9 | 35.0 | 800 |
| Chennai | 96.8 | 3.1 | 800 |
| Coimbatore | 67.3 | 32.7 | 1600 |
| Cuddalore | 81.8 | 18.3 | 800 |
| Dharmapuri | 98.6 | 1.4 | 1200 |
| Dindigul | 89.0 | 11.0 | 800 |
| Erode | 89.1 | 10.9 | 800 |
| Kancheepuram | 98.1 | 1.9 | 800 |
| Kanniyakumari | 79.8 | 20.3 | 1200 |
| Karur | 96.1 | 3.9 | 800 |
| Krishnagiri | 97.5 | 2.5 | 800 |
| Madurai | 99.5 | 0.5 | 800 |
| Nagapattinam | 92.9 | 7.1 | 800 |
| Namakkal | 98.5 | 1.4 | 800 |
| Perambalur | 93.8 | 6.3 | 800 |
| Pudukkottai | 97.0 | 2.9 | 800 |
| Ramanathapuram | 87.9 | 11.1 | 800 |
| Salem | 93.4 | 6.6 | 800 |
| Sivaganga | 97.8 | 2.0 | 800 |
| Thanjavur | 96.9 | 2.8 | 800 |
| The Nilgiris | 94.3 | 4.1 | 800 |
| Theni | 98.9 | 1.0 | 800 |
| Thiruvallur | 85.9 | 14.1 | 800 |
| Thiruvarur | 97.8 | 1.5 | 800 |
| Thoothukudi | 85.6 | 14.3 | 800 |
| Tiruchirappalli | 90.8 | 9.0 | 1600 |
| Tirunelveli | 99.0 | 0.9 | 1200 |
| Tiruppur | 98.0 | 1.8 | 800 |
| Tiruvannamalai | 96.0 | 3.9 | 800 |
| Vellore | 93.4 | 6.1 | 800 |
| Viluppuram | 99.5 | 0.3 | 800 |
| Virudhunagar | 78.9 | 21.1 | 800 |

Table 11: District-wise distribution of respondents based on the Source of Referral

| State/District | Self Referral | Family/ Relatives/ Neighbors/ Friends | NGO | Private (Doctor/ Nurses) | Govt (including, ASHA/ ANM) | ICTC / ART Centre | Total |
|-------------------|---------------|---------------------------------------|------------|--------------------------|-----------------------------|-------------------|--------------|
| Tamil Nadu | 18.2 | 12.9 | 0.0 | 0.9 | 67.5 | 0.5 | 28400 |
| Ariyalur | 1.9 | 0.3 | 0.0 | 0.0 | 97.9 | 0.0 | 800 |
| Chennai | 11.4 | 19.6 | 0.0 | 3.9 | 65.1 | 0.0 | 800 |
| Coimbatore | 30.0 | 15.3 | 0.1 | 0.8 | 53.8 | 0.0 | 1600 |
| Cuddalore | 29.3 | 16.6 | 0.0 | 1.3 | 52.9 | 0.0 | 800 |
| Dharmapuri | 0.8 | 9.5 | 0.0 | 0.0 | 89.6 | 0.0 | 1200 |
| Dindigul | 7.5 | 4.0 | 0.0 | 0.9 | 87.6 | 0.0 | 800 |
| Erode | 3.1 | 7.0 | 0.0 | 0.3 | 89.6 | 0.0 | 800 |
| Kancheepuram | 0.0 | 2.8 | 0.0 | 0.4 | 96.9 | 0.0 | 800 |
| Kanniyakumari | 36.8 | 47.4 | 0.0 | 0.4 | 15.3 | 0.0 | 1200 |
| Karur | 23.1 | 5.8 | 0.0 | 0.6 | 70.3 | 0.1 | 800 |
| Krishnagiri | 4.5 | 1.5 | 0.0 | 0.1 | 93.9 | 0.0 | 800 |
| Madurai | 1.1 | 59.1 | 0.0 | 0.0 | 39.8 | 0.0 | 800 |
| Nagapattinam | 41.9 | 18.5 | 0.0 | 0.0 | 39.6 | 0.0 | 800 |
| Namakkal | 6.4 | 17.9 | 0.0 | 3.9 | 71.9 | 0.0 | 800 |
| Perambalur | 0.0 | 0.1 | 0.0 | 0.0 | 99.8 | 0.0 | 800 |
| Pudukkottai | 26.9 | 15.4 | 0.0 | 2.0 | 55.6 | 0.0 | 800 |
| Ramanathapuram | 11.4 | 29.0 | 0.0 | 0.5 | 59.1 | 0.0 | 800 |
| Salem | 26.8 | 0.0 | 0.0 | 0.0 | 73.3 | 0.0 | 800 |
| Sivaganga | 40.5 | 26.1 | 0.0 | 0.3 | 33.1 | 0.0 | 800 |
| Thanjavur | 43.3 | 10.4 | 0.0 | 0.5 | 45.9 | 0.0 | 800 |
| The Nilgiris | 4.4 | 0.0 | 0.0 | 0.1 | 94.1 | 1.1 | 800 |
| Theni | 18.5 | 0.3 | 0.0 | 0.0 | 81.1 | 0.0 | 800 |
| Thiruvallur | 9.1 | 12.5 | 0.0 | 0.1 | 78.3 | 0.0 | 800 |
| Thiruvarur | 19.3 | 5.9 | 0.0 | 3.4 | 71.4 | 0.0 | 800 |
| Thoothukudi | 35.6 | 19.9 | 0.0 | 1.1 | 43.4 | 0.0 | 800 |
| Tiruchirappalli | 34.8 | 8.6 | 0.1 | 1.3 | 55.2 | 0.0 | 1600 |
| Tirunelveli | 15.2 | 19.3 | 0.0 | 0.3 | 58.0 | 7.3 | 1200 |
| Tiruppur | 3.0 | 2.6 | 0.0 | 3.8 | 90.1 | 0.3 | 800 |
| Tiruvannamalai | 37.8 | 9.3 | 0.0 | 2.4 | 46.6 | 4.0 | 800 |
| Vellore | 0.1 | 0.3 | 0.0 | 0.3 | 99.3 | 0.0 | 800 |
| Viluppuram | 0.4 | 0.0 | 0.0 | 0.5 | 98.8 | 0.3 | 800 |
| Virudhunagar | 28.6 | 12.8 | 0.0 | 0.9 | 57.4 | 0.0 | 800 |

Table 12: District wise distribution of respondents based on Place of Residence (%)

| State / Districts | Urban | Rural | Total |
|--------------------------|--------------|--------------|--------------|
| Tamil Nadu | 30.7 | 68.8 | 28400 |
| Ariyalur | 8.3 | 90.9 | 800 |
| Chennai | 69.1 | 30.8 | 800 |
| Coimbatore | 47.1 | 52.2 | 1600 |
| Cuddalore | 31.1 | 68.9 | 800 |
| Dharmapuri | 7.7 | 92.3 | 1200 |
| Dindigul | 32.0 | 68.0 | 800 |
| Erode | 40.5 | 59.1 | 800 |
| Kancheepuram | 56.5 | 43.5 | 800 |
| Kanniyakumari | 23.6 | 76.3 | 1200 |
| Karur | 39.0 | 60.9 | 800 |
| Krishnagiri | 28.0 | 72.0 | 800 |
| Madurai | 45.6 | 54.0 | 800 |
| Nagapattinam | 17.5 | 82.3 | 800 |
| Namakkal | 23.0 | 76.1 | 800 |
| Perambalur | 2.3 | 97.8 | 800 |
| Pudukkottai | 12.8 | 87.3 | 800 |
| Ramanathapuram | 27.9 | 71.3 | 800 |
| Salem | 32.4 | 67.3 | 800 |
| Sivaganga | 17.6 | 82.4 | 800 |
| Thanjavur | 22.0 | 78.0 | 800 |
| The Nilgiris | 52.9 | 46.8 | 800 |
| Theni | 40.4 | 59.6 | 800 |
| Thiruvallur | 18.4 | 80.9 | 800 |
| Thiruvarur | 13.4 | 83.5 | 800 |
| Thoothukudi | 44.1 | 55.8 | 800 |
| Tiruchirappalli | 33.1 | 66.1 | 1600 |
| Tirunelveli | 33.0 | 66.8 | 1200 |
| Tiruppur | 44.4 | 54.5 | 800 |
| Tiruvannamalai | 27.1 | 72.8 | 800 |
| Vellore | 44.9 | 55.0 | 800 |
| Viluppuram | 10.4 | 89.3 | 800 |
| Virudhunagar | 33.4 | 65.6 | 800 |

Table 13: District-wise distribution of respondents based on the Occupation (%)

| State/District | Agricultural Labourer | Non-Agricultural Labourer | Domestic Servant | Skilled / Semiskilled worker | Petty business / small shop | Large Business/Self employed | Service (Govt./Pvt.) | Student | Hotel staff | Truck driver/Helper | Local transport Worker | Agricultural cultivator | Housewife | Total |
|-------------------|-----------------------|---------------------------|------------------|------------------------------|-----------------------------|------------------------------|----------------------|---------|-------------|---------------------|------------------------|-------------------------|-----------|--------------|
| Tamil Nadu | 0.7 | 1.2 | 0.1 | 0.5 | 0.1 | 0.0 | 3.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.3 | 93.3 | 28400 |
| Ariyalur | 3.1 | 0.5 | 0.0 | 0.6 | 0.1 | 0.0 | 3.3 | 1.6 | 0.1 | 0.0 | 0.0 | 3.0 | 87.6 | 800 |
| Chennai | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.0 | 4.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 94.8 | 800 |
| Coimbatore | 0.3 | 0.6 | 0.1 | 0.1 | 0.0 | 0.2 | 5.0 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 | 93.1 | 1600 |
| Cuddalore | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.3 | 3.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 95.3 | 800 |
| Dharmapuri | 1.1 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 1.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.2 | 96.2 | 1200 |
| Dindigul | 1.1 | 0.4 | 0.0 | 0.3 | 0.0 | 0.0 | 2.1 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 94.4 | 800 |
| Erode | 0.3 | 1.6 | 0.1 | 1.0 | 0.0 | 0.0 | 1.3 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 95.4 | 800 |
| Kancheepuram | 0.5 | 0.1 | 1.5 | 0.0 | 0.3 | 0.0 | 4.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 93.0 | 800 |
| Kanniyakumari | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 90.8 | 1200 |
| Karur | 0.8 | 1.0 | 0.0 | 0.1 | 0.1 | 0.1 | 3.3 | 1.3 | 0.3 | 0.0 | 0.0 | 0.0 | 93.1 | 800 |
| Krishnagiri | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.3 | 0.1 | 0.0 | 0.0 | 0.3 | 97.0 | 800 |
| Madurai | 0.0 | 0.5 | 0.0 | 0.9 | 0.4 | 0.0 | 2.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 94.8 | 800 |
| Nagapattinam | 0.0 | 0.1 | 0.0 | 0.3 | 0.0 | 0.0 | 2.3 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 97.0 | 800 |
| Namakkal | 0.0 | 1.6 | 0.0 | 1.3 | 0.1 | 0.0 | 0.4 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 95.4 | 800 |
| Perambalur | 4.1 | 2.4 | 0.1 | 0.5 | 0.3 | 0.0 | 4.4 | 1.3 | 0.0 | 0.0 | 0.0 | 5.4 | 81.6 | 800 |
| Pudukkottai | 0.0 | 0.4 | 0.0 | 0.9 | 0.0 | 0.0 | 0.5 | 0.4 | 0.0 | 0.0 | 0.0 | 0.3 | 97.5 | 800 |
| Ramanathapuram | 0.0 | 0.3 | 0.0 | 0.3 | 0.1 | 0.0 | 1.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 97.6 | 800 |
| Salem | 0.1 | 0.3 | 0.0 | 0.1 | 0.0 | 0.0 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 95.9 | 800 |
| Sivaganga | 0.3 | 0.1 | 0.1 | 0.3 | 0.0 | 0.0 | 3.1 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 94.8 | 800 |
| Thanjavur | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 97.1 | 800 |
| The Nilgiris | 0.4 | 1.3 | 0.0 | 0.0 | 0.0 | 0.1 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 95.5 | 800 |
| Theni | 1.3 | 0.4 | 0.0 | 0.1 | 0.1 | 0.0 | 2.1 | 1.9 | 0.1 | 0.0 | 0.0 | 0.0 | 94.0 | 800 |
| Thiruvallur | 0.4 | 7.3 | 0.0 | 0.5 | 0.4 | 0.0 | 2.9 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 88.5 | 800 |
| Thiruvarur | 2.0 | 0.3 | 0.0 | 0.1 | 0.3 | 0.0 | 2.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.1 | 94.3 | 800 |
| Thoothukudi | 1.1 | 3.3 | 0.1 | 0.3 | 0.4 | 0.0 | 3.4 | 0.9 | 0.0 | 0.0 | 0.0 | 0.1 | 90.5 | 800 |
| Tiruchirappalli | 2.4 | 0.6 | 0.1 | 0.1 | 0.1 | 0.0 | 5.6 | 0.6 | 0.1 | 0.0 | 0.0 | 0.1 | 90.3 | 1600 |
| Tirunelveli | 0.5 | 6.5 | 0.0 | 0.6 | 0.2 | 0.0 | 3.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.1 | 88.5 | 1200 |
| Tiruppur | 0.0 | 1.5 | 0.0 | 8.8 | 0.4 | 0.1 | 1.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.1 | 86.8 | 800 |
| Tiruvannamalai | 0.5 | 0.3 | 0.0 | 0.1 | 0.3 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 97.9 | 800 |
| Vellore | 0.8 | 0.1 | 0.0 | 0.0 | 0.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 97.4 | 800 |
| Viluppuram | 0.6 | 0.4 | 0.1 | 0.0 | 0.1 | 0.0 | 2.1 | 0.4 | 0.0 | 0.0 | 0.0 | 1.4 | 94.9 | 800 |
| Virudhunagar | 0.8 | 2.6 | 0.0 | 0.6 | 0.0 | 0.3 | 3.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.3 | 800 |

Table 14: District - wise distribution of respondents based on the Occupation of spouse (%)

| State/District | Agricultural Labourer | Non-Agricultural Labourer | Domestic Servant | Skilled / Semiskilled worker | Petty business / small shop | Large Business/Self employed | Service (Govt./Pvt.) | Student | Hotel staff | Truck driver/Helper | Local transport Worker | Agricultural cultivator | Unemployed | Not Applicable | Total |
|-------------------|-----------------------|---------------------------|------------------|------------------------------|-----------------------------|------------------------------|----------------------|---------|-------------|---------------------|------------------------|-------------------------|------------|----------------|--------------|
| Tamil Nadu | 8.2 | 21.6 | 0.3 | 21.2 | 4.7 | 2.7 | 21.3 | 0.1 | 2.8 | 3.8 | 10.0 | 2.8 | 0.1 | 0.1 | 28400 |
| Ariyalur | 9.3 | 15.4 | 0.0 | 10.4 | 3.0 | 2.8 | 25.4 | 0.4 | 4.5 | 2.5 | 9.1 | 17.1 | 0.1 | 0.1 | 800 |
| Chennai | 1.0 | 6.1 | 0.4 | 16.9 | 7.9 | 4.9 | 42.1 | 0.0 | 2.4 | 3.9 | 13.0 | 1.5 | 0.0 | 0.0 | 800 |
| Coimbatore | 2.8 | 22.1 | 0.2 | 22.1 | 6.2 | 6.6 | 28.2 | 0.1 | 0.9 | 0.9 | 9.4 | 0.4 | 0.1 | 0.0 | 1600 |
| Cuddalore | 5.3 | 45.3 | 0.0 | 9.9 | 4.3 | 1.5 | 18.4 | 0.0 | 1.5 | 1.6 | 11.3 | 1.1 | 0.0 | 0.0 | 800 |
| Dharmapuri | 11.5 | 25.0 | 0.3 | 19.6 | 7.0 | 0.4 | 18.9 | 0.3 | 0.8 | 8.0 | 5.1 | 2.9 | 0.3 | 0.0 | 1200 |
| Dindigul | 8.5 | 35.1 | 0.0 | 16.0 | 6.0 | 2.5 | 14.6 | 0.0 | 3.3 | 0.6 | 12.8 | 0.4 | 0.0 | 0.3 | 800 |
| Erode | 6.1 | 29.8 | 0.0 | 40.8 | 1.3 | 2.5 | 7.3 | 0.0 | 1.4 | 1.3 | 9.8 | 0.0 | 0.0 | 0.0 | 800 |
| Kancheepuram | 14.5 | 3.3 | 7.5 | 9.1 | 4.8 | 2.9 | 45.5 | 0.0 | 1.5 | 1.5 | 9.4 | 0.0 | 0.0 | 0.1 | 800 |
| Kanniyakumari | 0.8 | 5.4 | 0.2 | 49.3 | 1.1 | 4.2 | 29.8 | 0.0 | 1.3 | 1.3 | 6.5 | 0.0 | 0.0 | 0.1 | 1200 |
| Karur | 2.8 | 24.5 | 0.0 | 34.5 | 2.9 | 5.1 | 13.5 | 0.0 | 3.5 | 5.1 | 7.3 | 0.8 | 0.0 | 0.1 | 800 |
| Krishnagiri | 0.9 | 16.0 | 0.0 | 21.8 | 6.4 | 2.8 | 26.9 | 0.0 | 4.1 | 1.9 | 12.0 | 7.4 | 0.0 | 0.0 | 800 |
| Madurai | 4.5 | 39.1 | 0.0 | 13.9 | 2.8 | 3.5 | 21.3 | 0.0 | 2.9 | 0.1 | 11.4 | 0.6 | 0.0 | 0.0 | 800 |
| Nagapattinam | 9.4 | 5.9 | 0.0 | 41.6 | 3.6 | 0.8 | 18.4 | 0.0 | 3.1 | 5.3 | 10.1 | 1.4 | 0.1 | 0.1 | 800 |
| Namakkal | 5.6 | 23.3 | 0.0 | 28.3 | 4.6 | 1.6 | 10.3 | 0.1 | 0.5 | 9.1 | 16.0 | 0.5 | 0.1 | 0.0 | 800 |
| Perambalur | 7.8 | 9.8 | 0.0 | 13.6 | 3.8 | 0.5 | 20.4 | 0.4 | 6.1 | 2.8 | 10.6 | 24.4 | 0.0 | 0.0 | 800 |
| Pudukkottai | 14.9 | 13.5 | 0.0 | 37.0 | 5.8 | 0.6 | 6.5 | 0.0 | 4.9 | 2.0 | 6.8 | 7.9 | 0.3 | 0.0 | 800 |
| Ramanathapuram | 8.5 | 24.4 | 0.3 | 22.8 | 5.1 | 4.0 | 18.1 | 0.1 | 3.3 | 0.6 | 12.4 | 0.0 | 0.3 | 0.3 | 800 |
| Salem | 7.0 | 35.9 | 0.3 | 11.0 | 2.4 | 3.0 | 24.1 | 0.1 | 0.4 | 12.6 | 3.3 | 0.0 | 0.0 | 0.0 | 800 |
| Sivaganga | 2.1 | 26.9 | 0.0 | 14.1 | 4.9 | 2.6 | 16.5 | 0.0 | 9.6 | 2.5 | 14.6 | 5.3 | 0.9 | 0.0 | 800 |
| Thanjavur | 15.8 | 25.5 | 0.0 | 25.0 | 4.0 | 2.3 | 8.6 | 0.0 | 2.6 | 2.1 | 12.3 | 1.8 | 0.1 | 0.0 | 800 |
| The Nilgiris | 30.9 | 20.5 | 0.1 | 6.8 | 4.8 | 2.4 | 14.5 | 0.0 | 3.8 | 7.8 | 8.3 | 0.3 | 0.0 | 0.0 | 800 |
| Theni | 10.8 | 16.5 | 0.3 | 20.3 | 5.0 | 2.6 | 23.6 | 0.0 | 3.5 | 2.4 | 10.8 | 4.3 | 0.0 | 0.1 | 800 |
| Thiruvallur | 5.1 | 18.3 | 0.4 | 13.3 | 5.8 | 1.3 | 39.1 | 0.3 | 1.3 | 2.4 | 12.1 | 0.3 | 0.4 | 0.1 | 800 |
| Thiruvarur | 18.6 | 7.0 | 0.0 | 31.9 | 1.5 | 1.0 | 11.9 | 0.0 | 4.1 | 8.0 | 11.1 | 4.8 | 0.0 | 0.1 | 800 |
| Thoothukudi | 3.4 | 35.0 | 0.0 | 15.5 | 8.6 | 1.9 | 14.4 | 0.1 | 2.6 | 5.0 | 12.6 | 0.8 | 0.0 | 0.1 | 800 |
| Tiruchirappalli | 7.9 | 26.9 | 0.4 | 5.9 | 4.1 | 5.7 | 31.3 | 0.1 | 3.1 | 3.1 | 10.1 | 0.3 | 0.4 | 0.5 | 1600 |
| Tirunelveli | 13.1 | 29.4 | 0.4 | 6.3 | 6.3 | 1.0 | 22.1 | 0.0 | 3.1 | 11.7 | 6.3 | 0.2 | 0.0 | 0.3 | 1200 |
| Tiruppur | 2.3 | 20.5 | 0.0 | 48.0 | 3.9 | 0.8 | 14.4 | 0.0 | 0.3 | 5.0 | 4.4 | 0.3 | 0.1 | 0.1 | 800 |
| Tiruvannamalai | 10.1 | 16.9 | 0.1 | 21.1 | 9.5 | 2.1 | 22.0 | 0.3 | 2.9 | 2.8 | 11.1 | 0.8 | 0.3 | 0.1 | 800 |
| Vellore | 6.4 | 26.5 | 0.0 | 21.8 | 6.3 | 2.4 | 12.6 | 0.1 | 5.6 | 2.5 | 14.4 | 0.9 | 0.0 | 0.5 | 800 |
| Viluppuram | 17.6 | 10.3 | 0.0 | 18.4 | 4.9 | 0.8 | 16.3 | 0.0 | 3.5 | 4.4 | 10.9 | 11.8 | 0.9 | 0.5 | 800 |
| Virudhunagar | 3.8 | 30.0 | 0.0 | 21.8 | 2.5 | 2.6 | 24.9 | 0.1 | 2.4 | 1.3 | 10.4 | 0.0 | 0.3 | 0.1 | 800 |

Table 15: District-wise distribution of respondents based on Migration of Spouse (%)

| State/District | Yes | No | Not Applicable | Total |
|-------------------|------------|-------------|----------------|--------------|
| Tamil Nadu | 5.1 | 94.8 | 0.1 | 28400 |
| Ariyalur | 6.5 | 93.4 | 0 | 800 |
| Chennai | 1.3 | 98.8 | 0 | 800 |
| Coimbatore | 0.8 | 99.2 | 0 | 1600 |
| Cuddalore | 0.9 | 99.1 | 0 | 800 |
| Dharmapuri | 0.3 | 99.8 | 0 | 1200 |
| Dindigul | 0.1 | 99.6 | 0.3 | 800 |
| Erode | 0.4 | 99.6 | 0 | 800 |
| Kancheepuram | 0.5 | 99.4 | 0.1 | 800 |
| Kanniyakumari | 6.5 | 93.4 | 0.1 | 1200 |
| Karur | 1.9 | 98.0 | 0.1 | 800 |
| Krishnagiri | 1.4 | 98.6 | 0 | 800 |
| Madurai | 7.8 | 92.3 | 0 | 800 |
| Nagapattinam | 19.5 | 80.4 | 0.1 | 800 |
| Namakkal | 1.3 | 98.8 | 0 | 800 |
| Perambalur | 12.6 | 87.4 | 0 | 800 |
| Pudukkottai | 21.5 | 78.5 | 0 | 800 |
| Ramanathapuram | 18.5 | 81.3 | 0 | 800 |
| Salem | 0.4 | 99.6 | 0 | 800 |
| Sivaganga | 17.6 | 82.4 | 0 | 800 |
| Thanjavur | 13.9 | 86.1 | 0 | 800 |
| The Nilgiris | 1.1 | 98.9 | 0 | 800 |
| Theni | 2.4 | 97.5 | 0.1 | 800 |
| Thiruvallur | 1.9 | 98.0 | 0.1 | 800 |
| Thiruvarur | 8.3 | 91.6 | 0 | 800 |
| Thoothukudi | 4.9 | 95.0 | 0.1 | 800 |
| Tiruchirappalli | 2.8 | 96.8 | 0.5 | 1600 |
| Tirunelveli | 3.1 | 96.7 | 0.3 | 1200 |
| Tiruppur | 0.6 | 99.3 | 0.1 | 800 |
| Tiruvannamalai | 11.1 | 88.8 | 0.1 | 800 |
| Vellore | 0.5 | 99.0 | 0.3 | 800 |
| Viluppuram | 1.5 | 97.9 | 0.5 | 800 |
| Virudhunagar | 1.1 | 98.8 | 0.1 | 800 |

Table 16: District-wise distribution of respondents based on HIV tested history (%)

| State/District | Yes | No | Total |
|-------------------|-------------|-------------|--------------|
| Tamil Nadu | 82.8 | 17.2 | 28400 |
| Ariyalur | 79.8 | 20.3 | 800 |
| Chennai | 94.0 | 6.0 | 800 |
| Coimbatore | 82.4 | 17.6 | 1600 |
| Cuddalore | 77.4 | 22.6 | 800 |
| Dharmapuri | 96.8 | 3.3 | 1200 |
| Dindigul | 83.6 | 16.4 | 800 |
| Erode | 85.0 | 15.0 | 800 |
| Kancheepuram | 79.5 | 20.5 | 800 |
| Kanniyakumari | 84.5 | 15.5 | 1200 |
| Karur | 91.8 | 8.3 | 800 |
| Krishnagiri | 94.6 | 5.4 | 800 |
| Madurai | 95.4 | 4.6 | 800 |
| Nagapattinam | 92.1 | 7.9 | 800 |
| Namakkal | 91.0 | 9.0 | 800 |
| Perambalur | 92.9 | 7.1 | 800 |
| Pudukkottai | 77.9 | 22.1 | 800 |
| Ramanathapuram | 92.5 | 7.5 | 800 |
| Salem | 82.4 | 17.6 | 800 |
| Sivaganga | 97.6 | 2.4 | 800 |
| Thanjavur | 93.4 | 6.6 | 800 |
| The Nilgiris | 95.1 | 4.9 | 800 |
| Theni | 93.4 | 6.6 | 800 |
| Thiruvallur | 80.6 | 19.4 | 800 |
| Thiruvavarur | 72.9 | 27.1 | 800 |
| Thoothukudi | 78.5 | 21.5 | 800 |
| Tiruchirappalli | 51.8 | 48.2 | 1600 |
| Tirunelveli | 95.8 | 4.3 | 1200 |
| Tiruppur | 46.6 | 53.4 | 800 |
| Tiruvannamalai | 71.0 | 29.0 | 800 |
| Vellore | 46.3 | 53.8 | 800 |
| Viluppuram | 97.5 | 2.5 | 800 |
| Virudhunagar | 74.0 | 26.0 | 800 |

**Table 17: District- wise distribution of respondents based on the Time of their last HIV test (%)
(Only the respondent whom tested for HIV test previously)**

| State/District | Tested previously | | | Total |
|-------------------|--------------------------|-----------------|---------------------------------|--------------|
| | during current pregnancy | Consented today | Tested before current pregnancy | |
| Tamil Nadu | 85.57 | 0.00 | 14.41 | 23525 |
| Ariyalur | 89.03 | 0.00 | 10.97 | 638 |
| Chennai | 91.89 | 0.00 | 8.11 | 752 |
| Coimbatore | 86.58 | 0.00 | 13.42 | 1319 |
| Cuddalore | 77.54 | 0.00 | 22.46 | 619 |
| Dharmapuri | 95.61 | 0.00 | 4.39 | 1161 |
| Dindigul | 83.71 | 0.00 | 16.29 | 669 |
| Erode | 94.12 | 0.00 | 5.88 | 680 |
| Kancheepuram | 84.12 | 0.00 | 15.88 | 636 |
| Kanniyakumari | 85.21 | 0.00 | 14.79 | 1014 |
| Karur | 94.55 | 0.00 | 5.45 | 734 |
| Krishnagiri | 94.19 | 0.00 | 5.81 | 757 |
| Madurai | 45.61 | 0.00 | 54.26 | 763 |
| Nagapattinam | 92.27 | 0.00 | 7.73 | 737 |
| Namakkal | 85.30 | 0.00 | 14.70 | 728 |
| Perambalur | 93.54 | 0.00 | 6.46 | 743 |
| Pudukkottai | 48.80 | 0.00 | 51.20 | 623 |
| Ramanathapuram | 89.73 | 0.00 | 10.27 | 740 |
| Salem | 98.03 | 0.00 | 1.97 | 659 |
| Sivaganga | 90.52 | 0.00 | 9.48 | 781 |
| Thanjavur | 93.57 | 0.00 | 6.43 | 747 |
| The Nilgiris | 95.14 | 0.00 | 4.86 | 761 |
| Theni | 64.93 | 0.00 | 35.07 | 747 |
| Thiruvallur | 82.95 | 0.00 | 17.05 | 645 |
| Thiruvarur | 87.14 | 0.00 | 12.86 | 583 |
| Thoothukudi | 80.25 | 0.00 | 19.75 | 628 |
| Tiruchirappalli | 95.30 | 0.00 | 4.70 | 829 |
| Tirunelveli | 97.48 | 0.00 | 2.44 | 1149 |
| Tiruppur | 99.73 | 0.00 | 0.27 | 373 |
| Tiruvannamalai | 31.16 | 0.00 | 68.84 | 568 |
| Vellore | 96.22 | 0.00 | 3.24 | 370 |
| Viluppuram | 87.95 | 0.00 | 12.05 | 780 |
| Virudhunagar | 86.66 | 0.00 | 13.34 | 592 |

**Table 18: District-wise distribution of respondents based on the Result of their last HIV test (%)
(Only the respondent whom tested for HIV test previously)**

| State/District | Positive | Negative | Did not collect the test result | No Response | Total |
|-------------------|-------------|--------------|------------------------------------|----------------|--------------|
| Tamil Nadu | 0.20 | 99.67 | 0.13 | 0.00 | 23525 |
| Ariyalur | 0.00 | 100.00 | 0.00 | 0.00 | 638 |
| Chennai | 0.00 | 100.00 | 0.00 | 0.00 | 752 |
| Coimbatore | 0.45 | 98.64 | 0.91 | 0.00 | 1319 |
| Cuddalore | 0.16 | 99.84 | 0.00 | 0.00 | 619 |
| Dharmapuri | 0.26 | 99.74 | 0.00 | 0.00 | 1161 |
| Dindigul | 0.00 | 100.00 | 0.00 | 0.00 | 669 |
| Erode | 0.29 | 99.71 | 0.00 | 0.00 | 680 |
| Kancheepuram | 0.16 | 99.84 | 0.00 | 0.00 | 636 |
| Kanniyakumari | 0.00 | 100.00 | 0.00 | 0.00 | 1014 |
| Karur | 0.27 | 99.73 | 0.00 | 0.00 | 734 |
| Krishnagiri | 0.53 | 99.47 | 0.00 | 0.00 | 757 |
| Madurai | 0.26 | 99.48 | 0.26 | 0.00 | 763 |
| Nagapattinam | 0.00 | 99.86 | 0.14 | 0.00 | 737 |
| Namakkal | 0.55 | 99.45 | 0.00 | 0.00 | 728 |
| Perambalur | 0.00 | 100.00 | 0.00 | 0.00 | 743 |
| Pudukkottai | 0.32 | 99.68 | 0.00 | 0.00 | 623 |
| Ramanathapuram | 0.00 | 99.86 | 0.14 | 0.00 | 740 |
| Salem | 0.15 | 99.85 | 0.00 | 0.00 | 659 |
| Sivaganga | 0.38 | 99.62 | 0.00 | 0.00 | 781 |
| Thanjavur | 0.00 | 100.00 | 0.00 | 0.00 | 747 |
| The Nilgiris | 0.00 | 100.00 | 0.00 | 0.00 | 761 |
| Theni | 0.00 | 100.00 | 0.00 | 0.00 | 747 |
| Thiruvallur | 0.16 | 99.84 | 0.00 | 0.00 | 645 |
| Thiruvarur | 0.00 | 99.83 | 0.17 | 0.00 | 583 |
| Thoothukudi | 0.00 | 99.84 | 0.16 | 0.00 | 628 |
| Tiruchirappalli | 0.24 | 99.52 | 0.24 | 0.00 | 829 |
| Tirunelveli | 0.17 | 99.39 | 0.44 | 0.00 | 1149 |
| Tiruppur | 0.54 | 98.39 | 1.07 | 0.00 | 373 |
| Tiruvannamalai | 0.00 | 99.65 | 0.35 | 0.00 | 568 |
| Vellore | 1.62 | 98.38 | 0.00 | 0.00 | 370 |
| Viluppuram | 0.13 | 99.87 | 0.00 | 0.00 | 780 |
| Virudhunagar | 0.17 | 99.83 | 0.00 | 0.00 | 592 |

Table 19: District -wise distribution of respondents based on the HIV management

| State/District | (1) ART | (2) NGO | (3) Pvt | (4) Pharmacist/Chemist | (5) Alternative/non Allopathic | (6) Any other type | (7) Not taking for HIV management | ART+NGO (1)+(2) | ART+PVT. (1)+(3) | ART+ (Alternative/non Allopathic) (1)+(5) | ART + Any other type (1)+(6) | Total |
|-------------------|-------------|----------|----------|------------------------|--------------------------------|--------------------|-----------------------------------|-----------------|------------------|---|------------------------------|-----------|
| Tamil Nadu | 97.8 | 0 | 0 | 0 | 0 | 0 | 2.2 | 0 | 0 | 0 | 0 | 46 |
| Coimbatore | 83.3 | 0 | 0 | 0 | 0 | 0 | 16.7 | 0 | 0 | 0 | 0 | 6 |
| Cuddalore | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Dharmapuri | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Erode | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Kancheepuram | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Karur | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Krishnagiri | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Madurai | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Namakkal | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Pudukkottai | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Salem | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sivaganga | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Thiruvallur | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Tiruchirappalli | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Tirunelveli | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Tiruppur | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Vellore | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Viluppuram | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Virudhunagar | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Table 20: District - wise distribution of HIV positive respondents based on the ART uptake (%).

(Results Only; If respondent whom Previous HIV test results positive and ART taken currently or not)

| State/District | Yes | No | Total |
|-----------------------|-------------|------------|--------------|
| Tamil Nadu | 97.8 | 2.2 | 46 |
| Coimbatore | 83.3 | 16.7 | 6 |
| Cuddalore | 100 | 0 | 1 |
| Dharmapuri | 100 | 0 | 3 |
| Erode | 100 | 0 | 2 |
| Kancheepuram | 100 | 0 | 1 |
| Karur | 100 | 0 | 2 |
| Krishnagiri | 100 | 0 | 4 |
| Madurai | 100 | 0 | 2 |
| Namakkal | 100 | 0 | 4 |
| Pudukkottai | 100 | 0 | 2 |
| Salem | 100 | 0 | 1 |
| Sivaganga | 100 | 0 | 3 |
| Thiruvallur | 100 | 0 | 1 |
| Tiruchirappalli | 100 | 0 | 2 |
| Tirunelveli | 100 | 0 | 2 |
| Tiruppur | 100 | 0 | 2 |
| Vellore | 100 | 0 | 6 |
| Viluppuram | 100 | 0 | 1 |
| Virudhunagar | 100 | 0 | 1 |

Table 21: HIV Prevalence among ANC Clinic Attendees by Age

| State/Districts | 15-24 | | 25-34 | | 35-44 | | 45-49 | | Total |
|-------------------|-------|-------|-------|-------|-------|-----|-------|---|--------------|
| | % | N | % | N | % | N | % | N | |
| Tamil Nadu | 0.18 | 16390 | 0.16 | 11457 | 0.54 | 553 | 0 | 0 | 28400 |
| Ariyalur | 0 | 419 | 0 | 369 | 0 | 12 | 0 | 0 | 800 |
| Chennai | 0 | 585 | 0 | 203 | 0 | 12 | 0 | 0 | 800 |
| Coimbatore | 0.39 | 1029 | 0.38 | 529 | 0 | 42 | 0 | 0 | 1600 |
| Cuddalore | 0.29 | 339 | 0 | 451 | 0 | 10 | 0 | 0 | 800 |
| Dharmapuri | 0.10 | 965 | 1.3 | 228 | 0 | 7 | 0 | 0 | 1200 |
| Dindigul | 0 | 486 | 0 | 301 | 0 | 13 | 0 | 0 | 800 |
| Erode | 0.43 | 461 | 0 | 313 | 0 | 26 | 0 | 0 | 800 |
| Kancheepuram | 0.25 | 404 | 0 | 372 | 0 | 24 | 0 | 0 | 800 |
| Kanniyakumari | 0 | 411 | 0 | 739 | 0 | 50 | 0 | 0 | 1200 |
| Karur | 0 | 436 | 0.29 | 346 | 5.6 | 18 | 0 | 0 | 800 |
| Krishnagiri | 0.57 | 528 | 0.37 | 267 | 0 | 5 | 0 | 0 | 800 |
| Madurai | 0 | 504 | 0.70 | 286 | 0 | 10 | 0 | 0 | 800 |
| Nagapattinam | 0 | 430 | 0 | 364 | 0 | 6 | 0 | 0 | 800 |
| Namakkal | 0.77 | 517 | 0.75 | 266 | 0 | 17 | 0 | 0 | 800 |
| Perambalur | 0 | 459 | 0 | 332 | 0 | 9 | 0 | 0 | 800 |
| Pudukkottai | 0.26 | 384 | 0.25 | 403 | 0 | 13 | 0 | 0 | 800 |
| Ramanathapuram | 0 | 458 | 0 | 326 | 0 | 16 | 0 | 0 | 800 |
| Salem | 0.21 | 478 | 0 | 302 | 0 | 20 | 0 | 0 | 800 |
| Sivaganga | 0.25 | 403 | 0.27 | 377 | 5 | 20 | 0 | 0 | 800 |
| Thanjavur | 0 | 367 | 0 | 418 | 0 | 15 | 0 | 0 | 800 |
| The Nilgiris | 0 | 410 | 0 | 371 | 0 | 19 | 0 | 0 | 800 |
| Theni | 0 | 557 | 0 | 239 | 0 | 4 | 0 | 0 | 800 |
| Thiruvallur | 0.20 | 498 | 0 | 287 | 0 | 15 | 0 | 0 | 800 |
| Thiruvarur | 0 | 328 | 0 | 461 | 0 | 11 | 0 | 0 | 800 |
| Thoothukudi | 0 | 458 | 0 | 325 | 0 | 17 | 0 | 0 | 800 |
| Tiruchirappalli | 0 | 950 | 0.33 | 610 | 0 | 40 | 0 | 0 | 1600 |
| Tirunelveli | 0.13 | 776 | 0.25 | 402 | 0 | 22 | 0 | 0 | 1200 |
| Tiruppur | 0.37 | 537 | 0 | 254 | 0 | 9 | 0 | 0 | 800 |
| Tiruvannamalai | 0.22 | 458 | 0 | 318 | 0 | 24 | 0 | 0 | 800 |
| Vellore | 0.87 | 462 | 0.31 | 323 | 6.7 | 15 | 0 | 0 | 800 |
| Viluppuram | 0.24 | 418 | 0 | 360 | 0 | 22 | 0 | 0 | 800 |
| Virudhunagar | 0 | 475 | 0.32 | 315 | 0 | 10 | 0 | 0 | 800 |

Table 22: HIV Prevalence (%) among ANC Clinic Attendees by Literacy Status and Districts

| State/District | 1. Illiterate | | 2. Literate and till 5th standard | | 3. 6th to 10th standard | | 4. 11th to Graduation | | 5. Post Graduation | | Total |
|-------------------|---------------|-----|-----------------------------------|------|-------------------------|-------|-----------------------|-------|--------------------|------|--------------|
| | Total % | N | Total % | N | Total % | N | Total % | N | Total % | N | |
| Tamil Nadu | 0.19 | 539 | 0.38 | 1062 | 0.25 | 10316 | 0.13 | 14068 | 0.04 | 2405 | 28400 |
| Ariyalur | 0 | 21 | 0 | 16 | 0 | 282 | 0 | 262 | 0 | 219 | 800 |
| Chennai | 0 | 7 | 0 | 20 | 0 | 304 | 0 | 423 | 0 | 46 | 800 |
| Coimbatore | 0 | 20 | 0 | 48 | 0.69 | 432 | 0.34 | 886 | 0 | 213 | 1600 |
| Cuddalore | 0 | 12 | 0 | 33 | 0 | 307 | 0.27 | 375 | 0 | 73 | 800 |
| Dharmapuri | 6.25 | 16 | 2.86 | 35 | 0.53 | 378 | 0 | 674 | 0 | 97 | 1200 |
| Dindigul | 0 | 16 | 0 | 34 | 0 | 308 | 0 | 392 | 0 | 50 | 800 |
| Erode | 0 | 40 | 0 | 46 | 0.30 | 336 | 0.28 | 354 | 0 | 22 | 800 |
| Kancheepuram | 0 | 14 | 0 | 23 | 0.37 | 271 | 0 | 383 | 0 | 109 | 800 |
| Kanniyakumari | 0 | | 0 | 22 | 0 | 246 | 0 | 685 | 0 | 247 | 1200 |
| Karur | 0 | 18 | 0 | 34 | 0.61 | 326 | 0 | 375 | 0 | 47 | 800 |
| Krishnagiri | 0 | 46 | 0 | 27 | 0 | 332 | 0.85 | 352 | 2.33 | 43 | 800 |
| Madurai | 0 | 8 | 0 | 32 | 0.32 | 314 | 0.24 | 412 | 0 | 34 | 800 |
| Nagapattinam | 0 | 6 | 0 | 19 | 0 | 290 | 0 | 414 | 0 | 71 | 800 |
| Namakkal | 0 | 19 | 1.96 | 51 | 1.38 | 290 | 0.26 | 391 | 0 | 49 | 800 |
| Perambalur | 0 | 3 | 0 | 27 | 0 | 244 | 0 | 447 | 0 | 79 | 800 |
| Pudukkottai | 0 | 12 | 0 | 10 | 0 | 313 | 0.50 | 400 | 0 | 65 | 800 |
| Ramanathapuram | 0 | 3 | 0 | 24 | 0 | 290 | 0 | 444 | 0 | 39 | 800 |
| Salem | 0 | 25 | 1.89 | 53 | 0 | 246 | 0 | 422 | 0 | 54 | 800 |
| Sivaganga | 0 | 11 | 0 | 8 | 1.29 | 232 | 0 | 470 | 0 | 79 | 800 |
| Thanjavur | 0 | 6 | 0 | 23 | 0 | 295 | 0 | 387 | 0 | 89 | 800 |
| The Nilgiris | 0 | 11 | 0 | 36 | 0 | 312 | 0 | 390 | 0 | 51 | 800 |
| Theni | 0 | 2 | 0 | 17 | 0 | 262 | 0 | 461 | 0 | 58 | 800 |
| Thiruvallur | 0 | 17 | 0 | 32 | 0.35 | 289 | 0 | 415 | 0 | 47 | 800 |
| Thiruvarur | 0 | 6 | 0 | 22 | 0 | 306 | 0 | 380 | 0 | 86 | 800 |
| Thoothukudi | 0 | 11 | 0 | 41 | 0 | 316 | 0 | 395 | 0 | 37 | 800 |
| Tiruchirappalli | 0 | 54 | 0 | 55 | 0.19 | 538 | 0.13 | 784 | 0 | 167 | 1600 |
| Tirunelveli | 0 | 10 | 0 | 53 | 0.20 | 498 | 0.17 | 582 | 0 | 56 | 1200 |
| Tiruppur | 0 | 19 | 0 | 37 | 0.56 | 358 | 0 | 353 | 0 | 32 | 800 |
| Tiruvannamalai | 0 | 21 | 0 | 31 | 0 | 333 | 0.27 | 373 | 0 | 41 | 800 |
| Vellore | 0 | 18 | 1.52 | 66 | 1.03 | 389 | 0.33 | 300 | 0 | 26 | 800 |
| Viluppuram | 0 | 48 | 0 | 42 | 0 | 374 | 0.33 | 300 | 0 | 36 | 800 |
| Virudhunagar | 0 | 19 | 0 | 45 | 0 | 305 | 0.26 | 387 | 0 | 43 | 800 |

Table 23: HIV Prevalence (%) among ANC Clinic Attendees by Order of Pregnancy and districts

| State/District | First | | Second | | Third | | Fourth omore | | Total |
|-------------------|-------------|--------------|-------------|--------------|-------------|-------------|--------------|------------|--------------|
| | % | N | % | N | % | N | % | N | |
| Tamil Nadu | 0.19 | 13340 | 0.17 | 11321 | 0.10 | 2941 | 0.39 | 773 | 28400 |
| Ariyalur | 0 | 376 | 0 | 308 | 0 | 87 | 0 | 28 | 800 |
| Chennai | 0 | 414 | 0 | 261 | 0 | 85 | 0 | 40 | 800 |
| Coimbatore | 0.35 | 854 | 0.55 | 545 | 0 | 156 | 0 | 44 | 1600 |
| Cuddalore | 0.31 | 324 | 0 | 375 | 0 | 78 | 0 | 23 | 800 |
| Dharmapuri | 0.37 | 546 | 0.41 | 490 | 0 | 133 | 0 | 31 | 1200 |
| Dindigul | 0 | 397 | 0 | 326 | 0 | 57 | 0 | 20 | 800 |
| Erode | 0.28 | 362 | 0.31 | 324 | 0 | 86 | 0 | 28 | 800 |
| Kancheepuram | 0.23 | 440 | 0 | 296 | 0 | 54 | 0 | 9 | 800 |
| Kanniyakumari | 0 | 521 | 0 | 532 | 0 | 110 | 0 | 35 | 1200 |
| Karur | 0 | 327 | 0 | 315 | 0.78 | 128 | 3.33 | 30 | 800 |
| Krishnagiri | 0.71 | 283 | 0.52 | 386 | 0 | 104 | 0 | 27 | 800 |
| Madurai | 0.26 | 384 | 0.31 | 324 | 0 | 76 | 0 | 16 | 800 |
| Nagapattinam | 0 | 398 | 0 | 321 | 0 | 62 | 0 | 19 | 800 |
| Namakkal | 1.10 | 365 | 0.32 | 310 | 0 | 96 | 3.45 | 29 | 800 |
| Perambalur | 0 | 312 | 0 | 361 | 0 | 102 | 0 | 25 | 800 |
| Pudukkottai | 0 | 409 | 0.63 | 319 | 0 | 59 | 0 | 13 | 800 |
| Ramanathapuram | 0 | 378 | 0 | 358 | 0 | 60 | 0 | 3 | 800 |
| Salem | 0 | 336 | 0.29 | 340 | 0 | 99 | 0 | 24 | 800 |
| Sivaganga | 0.26 | 383 | 0.31 | 318 | 1.14 | 88 | 0 | 11 | 800 |
| Thanjavur | 0 | 384 | 0 | 315 | 0 | 82 | 0 | 19 | 800 |
| The Nilgiris | 0 | 396 | 0 | 350 | 0 | 40 | 0 | 8 | 800 |
| Theni | 0 | 379 | 0 | 299 | 0 | 104 | 0 | 18 | 800 |
| Thiruvallur | 0 | 355 | 0.30 | 338 | 0 | 81 | 0 | 24 | 800 |
| Thiruvarur | 0 | 385 | 0 | 344 | 0 | 58 | 0 | 10 | 800 |
| Thoothukudi | 0 | 393 | 0 | 319 | 0 | 67 | 0 | 21 | 800 |
| Tiruchirappalli | 0.13 | 797 | 0 | 596 | 0 | 160 | 2.33 | 43 | 1600 |
| Tirunelveli | 0.15 | 657 | 0 | 419 | 0.93 | 107 | 0 | 17 | 1200 |
| Tiruppur | 0.53 | 375 | 0 | 312 | 0 | 91 | 0 | 22 | 800 |
| Tiruvannamalai | 0 | 364 | 0.33 | 299 | 0 | 96 | 0 | 40 | 800 |
| Vellore | 0.89 | 338 | 1.04 | 289 | 0 | 141 | 0 | 31 | 800 |
| Viluppuram | 0.35 | 285 | 0 | 329 | 0 | 140 | 0 | 46 | 800 |
| Virudhunagar | 0.24 | 423 | 0 | 303 | 0 | 54 | 0 | 19 | 800 |

Table 24: HIV Prevalence (%) among ANC Clinic Attendees by Duration of Pregnancy and districts

| State/District | First trimester | | Second trimester | | Third trimester | | Total |
|-------------------|-----------------|-------------|------------------|-------------|-----------------|--------------|--------------|
| | % | N | % | N | % | N | |
| Tamil Nadu | 0.20 | 4477 | 0.14 | 8756 | 0.19 | 15121 | 28400 |
| Ariyalur | 0 | 142 | 0 | 307 | 0 | 351 | 800 |
| Chennai | 0 | 86 | 0 | 196 | 0 | 518 | 800 |
| Coimbatore | 0.27 | 377 | 0.53 | 567 | 0.31 | 655 | 1600 |
| Cuddalore | 0 | 224 | 0 | 284 | 0.34 | 290 | 800 |
| Dharmapuri | 0 | 84 | 0.49 | 412 | 0.28 | 704 | 1200 |
| Dindigul | 0 | 108 | 0 | 182 | 0 | 510 | 800 |
| Erode | 1.46 | 137 | 0 | 208 | 0 | 455 | 800 |
| Kancheepuram | 0.86 | 116 | 0 | 260 | 0 | 424 | 800 |
| Kanniyakumari | 0 | 261 | 0 | 318 | 0 | 620 | 1200 |
| Karur | 0.89 | 112 | 0 | 253 | 0.23 | 435 | 800 |
| Krishnagiri | 1.52 | 66 | 0.60 | 167 | 0.35 | 567 | 800 |
| Madurai | 0 | 111 | 0.56 | 355 | 0 | 334 | 800 |
| Nagapattinam | 0 | 87 | 0 | 263 | 0 | 450 | 800 |
| Namakkal | 1.06 | 94 | 0 | 203 | 1.00 | 502 | 800 |
| Perambalur | 0 | 140 | 0 | 345 | 0 | 314 | 800 |
| Pudukkottai | 2.27 | 44 | 0 | 299 | 0.22 | 457 | 800 |
| Ramanathapuram | 0 | 131 | 0 | 240 | 0 | 424 | 800 |
| Salem | 0 | 83 | 0 | 253 | 0.22 | 461 | 800 |
| Sivaganga | 0 | 57 | 0 | 210 | 0.56 | 531 | 800 |
| Thanjavur | 0 | 57 | 0 | 262 | 0 | 480 | 800 |
| The Nilgiris | 0 | 152 | 0 | 260 | 0 | 378 | 800 |
| Theni | 0 | 134 | 0 | 274 | 0 | 392 | 800 |
| Thiruvallur | 0 | 166 | 0 | 165 | 0.21 | 469 | 800 |
| Thiruvarur | 0 | 111 | 0 | 220 | 0 | 467 | 800 |
| Thoothukudi | 0 | 192 | 0 | 248 | 0 | 360 | 800 |
| Tiruchirappalli | 0 | 272 | 0.25 | 395 | 0.11 | 927 | 1600 |
| Tirunelveli | 0 | 149 | 0 | 370 | 0.29 | 680 | 1200 |
| Tiruppur | 0 | 186 | 0 | 235 | 0.53 | 378 | 800 |
| Tiruvannamalai | 0 | 192 | 0.35 | 286 | 0 | 321 | 800 |
| Vellore | 0.69 | 145 | 0.67 | 298 | 0.85 | 351 | 800 |
| Viluppuram | 0 | 82 | 0 | 172 | 0.18 | 544 | 800 |
| Virudhunagar | 0 | 179 | 0 | 249 | 0.27 | 372 | 800 |

Table 25: HIV Prevalence (%) among ANC Clinic Attendees by ANC service uptake and districts

| State/District | Yes | | No | | Total |
|-------------------|-------------|--------------|-------------|-------------|--------------|
| | % | N | % | N | |
| Tamil Nadu | 0.19 | 25849 | 0.08 | 2500 | 28400 |
| Ariyalur | 0 | 519 | 0 | 280 | 800 |
| Chennai | 0 | 774 | 0 | 25 | 800 |
| Coimbatore | 0.56 | 1077 | 0 | 523 | 1600 |
| Cuddalore | 0.15 | 654 | 0 | 146 | 800 |
| Dharmapuri | 0.34 | 1183 | 0 | 17 | 1200 |
| Dindigul | 0 | 712 | 0 | 88 | 800 |
| Erode | 0.14 | 713 | 1.15 | 87 | 800 |
| Kancheepuram | 0.13 | 785 | 0 | 15 | 800 |
| Kanniyakumari | 0 | 957 | 0 | 243 | 1200 |
| Karur | 0.13 | 769 | 3.23 | 31 | 800 |
| Krishnagiri | 0.51 | 780 | 0 | 20 | 800 |
| Madurai | 0.25 | 796 | 0 | 4 | 800 |
| Nagapattinam | 0 | 743 | 0 | 57 | 800 |
| Namakkal | 0.76 | 788 | 0 | 11 | 800 |
| Perambalur | 0 | 750 | 0 | 50 | 800 |
| Pudukkottai | 0.26 | 776 | 0 | 23 | 800 |
| Ramanathapuram | 0 | 703 | 0 | 89 | 800 |
| Salem | 0.13 | 747 | 0 | 53 | 800 |
| Sivaganga | 0.38 | 782 | 0 | 16 | 800 |
| Thanjavur | 0 | 775 | 0 | 22 | 800 |
| The Nilgiris | 0 | 754 | 0 | 33 | 800 |
| Theni | 0 | 791 | 0 | 8 | 800 |
| Thiruvallur | 0.15 | 687 | 0 | 113 | 800 |
| Thiruvarur | 0 | 782 | 0 | 12 | 800 |
| Thoothukudi | 0 | 685 | 0 | 114 | 800 |
| Tiruchirappalli | 0.14 | 1453 | 0 | 144 | 1600 |
| Tirunelveli | 0.17 | 1188 | 0 | 11 | 1200 |
| Tiruppur | 0.26 | 784 | 0 | 14 | 800 |
| Tiruvannamalai | 0.13 | 768 | 0 | 31 | 800 |
| Vellore | 0.80 | 747 | 0 | 49 | 800 |
| Viluppuram | 0.13 | 796 | 0 | 2 | 800 |
| Virudhunagar | 0.16 | 631 | 0 | 169 | 800 |

Table 26: HIV Prevalence (%) among ANC Clinic Attendees by Source of Referral

| State/District | 1. Self Referral | | 2. Family/ Relatives/ Neighbors/ Friends | | 3. NGO | | 4. Private (Doctor/ Nurses) | | 5. Govt (including, ASHA/ ANM) | | 6. ICTC / ART Centre | | Total |
|-------------------|------------------|-------------|--|-------------|----------|----------|-----------------------------|------------|--------------------------------|--------------|----------------------|------------|--------------|
| | % | N | % | N | % | N | % | N | % | N | % | N | |
| Tamil Nadu | 0.08 | 5155 | 0.16 | 3675 | 0 | 3 | 0.39 | 257 | 0.20 | 19159 | 0.75 | 134 | 28400 |
| Ariyalur | 0 | 15 | 0 | 2 | | | | | 0 | 783 | | | 800 |
| Chennai | 0 | 91 | 0 | 157 | | | 0 | 31 | 0 | 521 | | | 800 |
| Coimbatore | 0 | 480 | 0.41 | 245 | 0 | 1 | 7.69 | 13 | 0.46 | 861 | | | 1600 |
| Cuddalore | 0.43 | 234 | 0 | 133 | | | 0 | 10 | 0 | 423 | | | 800 |
| Dharmapuri | 0 | 10 | 0.88 | 114 | | | | | 0.28 | 1075 | | | 1200 |
| Dindigul | 0 | 60 | 0 | 32 | | | 0 | 7 | 0 | 701 | | | 800 |
| Erode | 0 | 25 | 1.79 | 56 | | | 0 | 2 | 0.14 | 717 | | | 800 |
| Kancheepuram | | | 0 | 22 | | | 0 | 3 | 0.13 | 775 | | | 800 |
| Kanniyakumari | 0 | 442 | 0 | 569 | | | 0 | 5 | 0 | 184 | | | 1200 |
| Karur | 0 | 185 | 0 | 46 | | | 0 | 5 | 0.18 | 562 | 100.00 | 1 | 800 |
| Krishnagiri | 2.78 | 36 | 0 | 12 | | | 0 | 1 | 0.40 | 751 | | | 800 |
| Madurai | 0 | 9 | 0.21 | 473 | | | | | 0.31 | 318 | | | 800 |
| Nagapattinam | 0 | 335 | 0 | 148 | | | | | 0 | 317 | | | 800 |
| Namakkal | 0 | 51 | 0 | 143 | | | 0 | 31 | 1.04 | 575 | | | 800 |
| Perambalur | | | 0 | 1 | | | | | 0 | 798 | | | 800 |
| Pudukkottai | 0 | 215 | 0 | 123 | | | 0 | 16 | 0.45 | 445 | | | 800 |
| Ramanathapuram | 0 | 91 | 0 | 232 | | | 0 | 4 | 0 | 473 | | | 800 |
| Salem | 0 | 214 | | | | | | | 0.17 | 586 | | | 800 |
| Sivaganga | 0.31 | 324 | 0 | 209 | | | 0 | 2 | 0.75 | 265 | | | 800 |
| Thanjavur | 0 | 346 | 0 | 83 | | | 0 | 4 | 0 | 367 | | | 800 |
| The Nilgiris | 0 | 35 | | | | | 0 | 1 | 0 | 753 | 0 | 9 | 800 |
| Theni | 0 | 148 | 0 | 2 | | | | | 0 | 649 | | | 800 |
| Thiruvallur | 0 | 73 | 1.00 | 100 | | | 0 | 1 | 0 | 626 | | | 800 |
| Thiruvarur | 0 | 154 | 0 | 47 | | | 0 | 27 | 0 | 571 | | | 800 |
| Thoothukudi | 0 | 285 | 0 | 159 | | | 0 | 9 | 0 | 347 | | | 800 |
| Tiruchirappalli | 0.18 | 556 | 0 | 137 | 0 | 2 | 0 | 20 | 0.11 | 883 | | | 1600 |
| Tirunelveli | 0 | 182 | 0.43 | 231 | | | 0 | 3 | 0.14 | 696 | 0 | 88 | 1200 |
| Tiruppur | 0 | 24 | 0 | 21 | | | 0 | 30 | 0.28 | 721 | 0 | 2 | 800 |
| Tiruvannamalai | 0 | 302 | 0 | 74 | | | 0 | 19 | 0.27 | 373 | 0 | 32 | 800 |
| Vellore | 0 | 1 | 0 | 2 | | | 0 | 2 | 0.76 | 794 | | | 800 |
| Viluppuram | 0 | 3 | | | | | 0 | 4 | 0.13 | 790 | 0 | 2 | 800 |
| Virudhunagar | 0 | 229 | 0 | 102 | | | 0 | 7 | 0.22 | 459 | | | 800 |

Table 27: Prevalence among ANC Clinic Attendees by Place of Residence and district

| State/District | Urban | | Rural | | N |
|-------------------|-------------|-------------|-------------|--------------|--------------|
| | % | N | % | N | |
| Tamil Nadu | 0.18 | 8732 | 0.17 | 19547 | 28400 |
| Ariyalur | 0 | 66 | 0 | 727 | 800 |
| Chennai | 0 | 553 | 0 | 246 | 800 |
| Coimbatore | 0.40 | 754 | 0.36 | 835 | 1600 |
| Cuddalore | 0.40 | 249 | 0 | 551 | 800 |
| Dharmapuri | 0 | 92 | 0.36 | 1108 | 1200 |
| Dindigul | 0 | 256 | 0 | 544 | 800 |
| Erode | 0.31 | 324 | 0.21 | 473 | 800 |
| Kancheepuram | 0 | 452 | 0.29 | 348 | 800 |
| Kanniyakumari | 0 | 283 | 0 | 915 | 1200 |
| Karur | 0 | 312 | 0.41 | 487 | 800 |
| Krishnagiri | 0.45 | 224 | 0.52 | 576 | 800 |
| Madurai | 0.27 | 365 | 0.23 | 432 | 800 |
| Nagapattinam | 0 | 140 | 0 | 658 | 800 |
| Namakkal | 1.63 | 184 | 0.49 | 609 | 800 |
| Perambalur | 0 | 18 | 0 | 782 | 800 |
| Pudukkottai | 0 | 102 | 0.29 | 698 | 800 |
| Ramanathapuram | 0 | 223 | 0 | 570 | 800 |
| Salem | 0.39 | 259 | 0 | 538 | 800 |
| Sivaganga | 0.71 | 141 | 0.30 | 659 | 800 |
| Thanjavur | 0 | 176 | 0 | 624 | 800 |
| The Nilgiris | 0 | 423 | 0 | 374 | 800 |
| Theni | 0 | 323 | 0 | 477 | 800 |
| Thiruvallur | 0 | 147 | 0.15 | 647 | 800 |
| Thiruvarur | 0 | 107 | 0 | 668 | 800 |
| Thoothukudi | 0 | 353 | 0 | 446 | 800 |
| Tiruchirappalli | 0.19 | 529 | 0.09 | 1057 | 1600 |
| Tirunelveli | 0 | 396 | 0.25 | 801 | 1200 |
| Tiruppur | 0.56 | 355 | 0 | 436 | 800 |
| Tiruvannamalai | 0 | 217 | 0.17 | 582 | 800 |
| Vellore | 0.28 | 359 | 1.14 | 440 | 800 |
| Viluppuram | 0 | 83 | 0.14 | 714 | 800 |
| Virudhunagar | 0 | 267 | 0.19 | 525 | 800 |

Table 28: HIV Prevalence among ANC Clinic Attendees by Current Occupation of Respondent

| State/District | Agricultural Labourer | | Non-Agricultural Labourer | | Domestic Servant | | Skilled / Semiskilled worker | | Petty business / small shop | | Business/ Self employed | | Service (Govt./Pvt.) | | Student | | Hotel staff | | Agricultural cultivator/ | | Housewife | | Total |
|-----------------|-----------------------|-----|---------------------------|-----|------------------|----|------------------------------|-----|-----------------------------|----|-------------------------|----|----------------------|-----|---------|-----|-------------|----|--------------------------|----|-----------|-------|-------|
| | | | | | | | | | | | | | | | | | | | | | | | |
| | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Tamil Nadu | 0 | 207 | 0.31 | 327 | 0 | 21 | 0 | 149 | 0 | 35 | 0 | 10 | 0.12 | 850 | 0 | 193 | 0 | 9 | 0 | 92 | 0.18 | 26504 | 28400 |
| Ariyalur | 0 | 25 | 0 | 4 | | | 0 | 5 | 0 | 1 | | | 0 | 26 | 13 | 1 | 0 | 24 | 0 | 0 | 0 | 701 | 800 |
| Chennai | 0 | 1 | | | | | 0 | 2 | 0 | 3 | | | 0 | 34 | 1 | | | | | | 0 | 758 | 800 |
| Coimbatore | 0 | 5 | 0 | 9 | 0 | 1 | 0 | 2 | | | 3 | | 0 | 80 | 10 | 1 | | | | | 0.40 | 1489 | 1600 |
| Cuddalore | 0 | | 0 | 1 | | | | | | | 2 | | 0 | 29 | 6 | | | | | | 0.13 | 762 | 800 |
| Dharmapuri | 0 | 13 | 0 | 3 | 0 | 2 | 0 | 1 | | | | | 0 | 22 | 3 | | | 0 | 2 | | 0.35 | 1154 | 1200 |
| Dindigul | 0 | 9 | 0 | 3 | | | 0 | 2 | | | | | 0 | 17 | 14 | | | | | | 0 | 755 | 800 |
| Erode | 0 | 2 | 7.7 | 13 | 0 | 1 | 0 | 8 | | | | | 0 | 10 | 2 | 1 | | | | | 0.13 | 763 | 800 |
| Kancheepuram | 0 | 4 | 0 | 1 | 0 | 12 | | | 0 | 2 | | | 0 | 32 | 5 | | | | | | 0.13 | 744 | 800 |
| Kanniyakumari | | | | | | | | | | | | | 0 | 99 | 11 | | | | | | 0 | 1090 | 1200 |
| Karur | 0 | 6 | 0 | 8 | | | 0 | 1 | 0 | 1 | 1 | | 0 | 26 | 10 | 2 | | | | | 0.27 | 745 | 800 |
| Krishnagiri | | | 0 | 10 | | | | | | | | | 0 | 9 | 2 | 1 | 0 | 2 | | | 0.52 | 776 | 800 |
| Madurai | | | 0 | 4 | | | 0 | 7 | 0 | 3 | | | 0 | 21 | 7 | | | | | | 0.26 | 758 | 800 |
| Nagapattinam | | | 0 | 1 | | | 0 | 2 | | | | | 0 | 18 | 2 | 1 | | | | | 0 | 776 | 800 |
| Namakkal | | | 0 | 13 | | | 0 | 10 | 0 | 1 | | | 0 | 3 | 10 | | | | | | 0.79 | 763 | 800 |
| Perambalur | 0 | 33 | 0 | 19 | 0 | 1 | 0 | 4 | 0 | 2 | | | 0 | 35 | 10 | | | 0 | 43 | 0 | 0 | 653 | 800 |
| Pudukkottai | | | 0 | 3 | | | 0 | 7 | | | | | 0 | 4 | 3 | | | 0 | 2 | | 0.26 | 780 | 800 |
| Ramanathapuram | | | 0 | 2 | | | 0 | 2 | 0 | 1 | | | 0 | 12 | 2 | | | | | | 0 | 781 | 800 |
| Salem | 0 | 1 | 0 | 2 | | | 0 | 1 | | | | | 0 | 22 | 7 | | | | | | 0.13 | 767 | 800 |
| Sivaganga | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | | | | | 4 | 25 | 11 | | | | | | 0.26 | 758 | 800 |
| Thanjavur | | | 0 | 4 | | | | | | | | | 0 | 12 | 7 | | | | | | 0 | 777 | 800 |
| The Nilgiris | 0 | 3 | 0 | 10 | | | | | | | 1 | | 0 | 21 | | | | | | | 0 | 764 | 800 |
| Theni | 0 | 10 | 0 | 3 | | | 0 | 1 | 0 | 1 | | | 0 | 17 | 15 | 1 | | | | | 0 | 752 | 800 |
| Thiruvallur | 0 | 3 | 0 | 58 | | | 0 | 4 | 0 | 3 | | | 0 | 23 | 1 | | | | | | 0.14 | 708 | 800 |
| Thiruvavar | 0 | 16 | 0 | 2 | | | 0 | 1 | 0 | 2 | | | 0 | 20 | 4 | | | 0 | 1 | | 0 | 754 | 800 |
| Thoothukudi | 0 | 9 | 0 | 26 | 0 | 1 | 0 | 2 | 0 | 3 | | | 0 | 27 | 7 | | | 0 | 1 | | 0 | 724 | 800 |
| Tiruchirappalli | 0 | 38 | 0 | 10 | 0 | 1 | 0 | 2 | 0 | 2 | | | 0 | 90 | 10 | 1 | | | | | 0.14 | 1445 | 1600 |
| Tirunelveli | 0 | 6 | 0 | 78 | | | 0 | 7 | 0 | 2 | | | 0 | 39 | 5 | | | 0 | 1 | | 0.19 | 1062 | 1200 |
| Tiruppur | 0 | | 0 | 12 | | | 0 | 70 | 0 | 3 | 1 | | 0 | 15 | 4 | | | 0 | 1 | | 0.29 | 694 | 800 |
| Tiruvannamalai | 0 | 4 | 0 | 2 | | | 0 | 1 | 0 | 2 | | | 0 | 7 | | | | 0 | 1 | | 0.13 | 783 | 800 |
| Vellore | 0 | 6 | 0 | 1 | | | | | 0 | 2 | | | 0 | 10 | | | | 0 | 2 | | 0.77 | 779 | 800 |
| Viluppuram | 0 | 5 | 0 | 3 | 0 | 1 | | | 0 | 1 | | | 0 | 17 | 3 | | | 0 | 11 | | 0.13 | 759 | 800 |
| Virudhunagar | 0 | 6 | 0 | 21 | | | 0 | 5 | | | 2 | | 0 | 28 | 8 | | | | | | 0.14 | 730 | 800 |

Table 29: HIV Prevalence among ANC Clinic Attendees by Current Occupation of Spouse

| State/District | Agricultural Labourer | | Non-Agricultural Labourer | | Domestic Servant | | Skilled / Semiskilled worker | | Petty business / small shop | | Large Business/Self employed | | Service (Govt./Pvt.) | | Student | | Hotel staff | | Truck driver/Helper | | Local transport Worker | | Agricultural cultivator | | Un employed | | Total |
|-----------------|-----------------------|------|---------------------------|------|------------------|----|------------------------------|------|-----------------------------|------|------------------------------|-----|----------------------|------|---------|------|-------------|------|---------------------|------|------------------------|------|-------------------------|-----|-------------|------|-------|
| | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | |
| Tamil Nadu | 0.09 | 2337 | 0.23 | 6148 | 0 | 94 | 0.17 | 6030 | 0.15 | 1345 | 0 | 756 | 0.07 | 6053 | 0 | 23 | 0.37 | 809 | 0.18 | 1090 | 0.39 | 2829 | 0.25 | 800 | 0 | 40 | 28400 |
| Ariyalur | 0 | 74 | 0 | 123 | | | 0 | 83 | 0 | 24 | 0 | 22 | 0 | 203 | 3 | 0 | 36 | 0 | 20 | 0 | 73 | 0 | 137 | 1 | 1 | 800 | |
| Chennai | 0 | 8 | 0 | 49 | 3 | | 0 | 135 | 0 | 63 | 0 | 39 | 0 | 337 | | 0 | 19 | 0 | 31 | 0 | 104 | 0 | 12 | | | 800 | |
| Coimbatore | 0 | 44 | 1.13 | 353 | 3 | | 0 | 354 | 0 | 99 | 0 | 106 | 0 | 451 | 1 | 0 | 15 | 0 | 14 | 0 | 151 | 0 | 7 | 1 | 1 | 1600 | |
| Cuddalore | 0 | 42 | 0 | 362 | | | 0 | 79 | 2.94 | 34 | 0 | 12 | 0 | 147 | | 0 | 12 | 0 | 13 | 0 | 90 | 0 | 9 | | | 800 | |
| Dharmapuri | 0 | 138 | 1.00 | 300 | 3 | | 0 | 235 | 0 | 84 | 0 | 5 | 0 | 227 | 4 | 0 | 9 | 1.04 | 96 | 0 | 61 | 0 | 35 | 3 | | 1200 | |
| Dindigul | 0 | 68 | 0 | 281 | | | 0 | 128 | 0 | 48 | 0 | 20 | 0 | 117 | | 0 | 26 | 0 | 5 | 0 | 102 | 0 | 3 | | | 800 | |
| Erode | 0 | 49 | 0 | 238 | | | 0.31 | 326 | 0 | 10 | 0 | 20 | 0 | 58 | | 0 | 11 | 0 | 10 | 1.28 | 78 | | | | | 800 | |
| Kancheepuram | 0 | 116 | 0 | 26 | 60 | | 0 | 73 | 0 | 38 | 0 | 23 | 0 | 364 | | 0 | 12 | 0 | 12 | 1.33 | 75 | | | | | 800 | |
| Kanniyakumari | 0 | 10 | 0 | 65 | 2 | | 0 | 591 | 0 | 13 | 0 | 50 | 0 | 358 | | 0 | 16 | 0 | 16 | 0 | 78 | | | | | 1200 | |
| Karur | 0 | 22 | 0.51 | 196 | | | 0.36 | 276 | 0 | 23 | 0 | 41 | 0 | 108 | | 0 | 28 | 0 | 41 | 0 | 58 | 0 | 6 | | | 800 | |
| Krishnagiri | 0 | 7 | 0 | 128 | | | 0 | 174 | 0 | 51 | 0 | 22 | 0.47 | 215 | | 0 | 33 | 0 | 15 | 2.08 | 96 | 1.69 | 59 | | | 800 | |
| Madurai | 0 | 36 | 0.32 | 313 | | | 0 | 111 | 0 | 22 | 0 | 28 | 0 | 170 | | 0 | 23 | 0 | 1 | 1.10 | 91 | 0 | 5 | | | 800 | |
| Nagapattinam | 0 | 75 | 0 | 47 | | | 0 | 333 | 0 | 29 | 0 | 6 | 0 | 147 | | 0 | 25 | 0 | 42 | 0 | 81 | 0 | 11 | 1 | | 800 | |
| Namakkal | 0 | 45 | 0.54 | 186 | | | 0.44 | 226 | 0 | 37 | 0 | 13 | 0 | 82 | 1 | 0 | 4 | 0 | 73 | 2.34 | 128 | 0 | 4 | 1 | | 800 | |
| Perambalur | 0 | 62 | 0 | 78 | | | 0 | 109 | 0 | 30 | 0 | 4 | 0 | 163 | 3 | 0 | 49 | 0 | 22 | 0 | 85 | 0 | 195 | | | 800 | |
| Pudukkottai | 0 | 119 | 0 | 108 | | | 0 | 296 | 0 | 46 | 0 | 5 | 0 | 52 | | 2.56 | 39 | 0 | 16 | 0 | 54 | 1.59 | 63 | 2 | | 800 | |
| Ramanathapuram | 0 | 68 | 0 | 195 | 2 | | 0 | 182 | 0 | 41 | 0 | 32 | 0 | 145 | 1 | 0 | 26 | 0 | 5 | 0 | 99 | | | 2 | | 800 | |
| Salem | 0 | 56 | 0 | 287 | 2 | | 1.14 | 88 | 0 | 19 | 0 | 24 | 0 | 193 | 1 | 0 | 3 | 0 | 101 | 0 | 26 | | | | | 800 | |
| Sivaganga | 0 | 17 | 0 | 215 | | | 1.77 | 113 | 2.56 | 39 | 0 | 21 | 0 | 132 | | 0 | 77 | 0 | 20 | 0 | 117 | 0 | 42 | 7 | | 800 | |
| Thanjavur | 0 | 126 | 0 | 204 | | | 0 | 200 | 0 | 32 | 0 | 18 | 0 | 69 | | 0 | 21 | 0 | 17 | 0 | 98 | 0 | 14 | 1 | | 800 | |
| The Nilgiris | 0 | 247 | 0 | 164 | 1 | | 1 | 0 | 54 | 0 | 38 | 0 | 19 | 0 | 116 | | 0 | 30 | 0 | 62 | 0 | 66 | 0 | 2 | | 800 | |
| Theni | 0 | 86 | 0 | 132 | 2 | | 0 | 162 | 0 | 40 | 0 | 21 | 0 | 189 | | 0 | 28 | 0 | 19 | 0 | 86 | 0 | 34 | | | 800 | |
| Thiruvallur | 0 | 41 | 0 | 146 | 3 | | 0 | 106 | 0 | 46 | 0 | 10 | 0.32 | 313 | 2 | 0 | 10 | 0 | 19 | 0 | 97 | 0 | 2 | 3 | | 800 | |
| Thiruvannamalai | 0 | 149 | 0 | 56 | | | 0 | 255 | 0 | 12 | 0 | 8 | 0 | 95 | | 0 | 33 | 0 | 64 | 0 | 89 | 0 | 38 | | | 800 | |
| Thoothukudi | 0 | 27 | 0 | 280 | | | 0 | 124 | 0 | 69 | 0 | 15 | 0 | 115 | 1 | 0 | 21 | 0 | 40 | 0 | 101 | 0 | 6 | | | 800 | |
| Tiruchirappalli | 0 | 127 | 0.23 | 430 | 7 | | 0 | 94 | 0 | 66 | 0 | 91 | 0.20 | 501 | 2 | 0 | 49 | 0 | 49 | 0 | 161 | 0 | 5 | 6 | | 1600 | |
| Tirunelveli | 0 | 157 | 0.28 | 353 | 5 | | 0 | 75 | 0 | 76 | 0 | 12 | 0 | 265 | | 0 | 37 | 0 | 140 | 0 | 75 | 0 | 2 | | | 1200 | |
| Tiruppur | 0 | 18 | 0 | 164 | | | 0.26 | 384 | 0 | 31 | 0 | 6 | 0 | 115 | | 0 | 2 | 2.50 | 40 | 0 | 35 | 0 | 2 | 1 | | 800 | |
| Tiruvannamalai | 0 | 81 | 0 | 135 | 1 | | 0 | 169 | 0 | 76 | 0 | 17 | 0 | 176 | 2 | 0 | 23 | 0 | 22 | 1.12 | 89 | 0 | 6 | 2 | | 800 | |
| Vellore | 0 | 51 | 0.94 | 212 | | | 0.57 | 174 | 0 | 50 | 0 | 19 | 0.99 | 101 | 1 | 2.22 | 45 | 0 | 20 | 0.87 | 115 | 0 | 7 | | | 800 | |
| Viluppuram | 0 | 141 | 0 | 82 | | | 0 | 147 | 0 | 39 | 0 | 6 | 0 | 130 | | 0 | 28 | 0 | 35 | 1.15 | 87 | 0 | 94 | 7 | | 800 | |
| Virudhunagar | 0 | 30 | 0 | 240 | | | 0 | 174 | 0 | 20 | 0 | 21 | 0.00 | 199 | 1 | 5.26 | 19 | 0 | 10 | 0 | 83 | | | 2 | | 800 | |

Table 30: HIV Prevalence among ANC Clinic Attendees by Migration status of Spouse

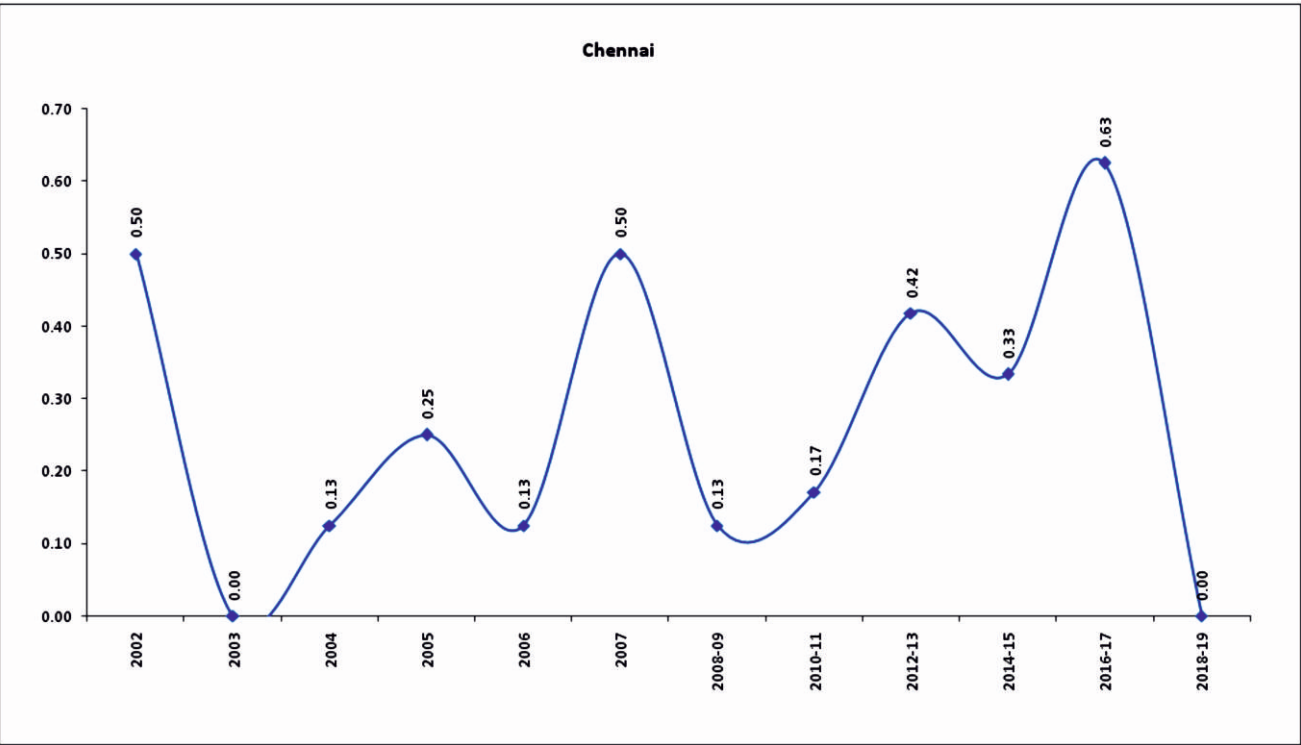
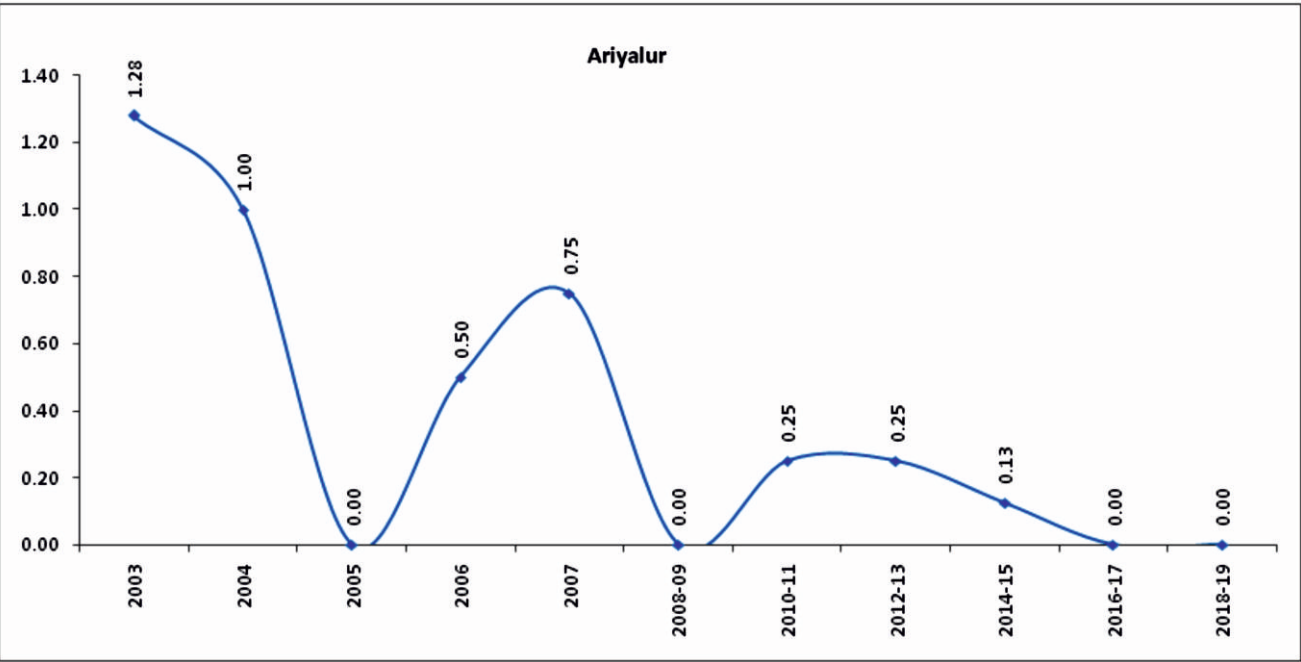
| State/District | Yes | | No | | Not Applicable* | | Total |
|-------------------|------|------|------|-------|-----------------|----|--------------|
| | % | N | % | N | % | N | |
| Tamil Nadu | 0.14 | 1449 | 0.18 | 26915 | 0 | 29 | 28400 |
| Ariyalur | 0 | 52 | 0 | 747 | | | 800 |
| Chennai | 0 | 10 | 0 | 790 | | | 800 |
| Coimbatore | 0 | 13 | 0.38 | 1587 | | | 1600 |
| Cuddalore | 0 | 7 | 0.13 | 793 | | | 800 |
| Dharmapuri | 0 | 3 | 0.33 | 1197 | | | 1200 |
| Dindigul | 0 | 1 | 0 | 797 | 0 | 2 | 800 |
| Erode | 0 | 3 | 0.25 | 797 | | | 800 |
| Kancheepuram | 0 | 4 | 0.13 | 795 | 0 | 1 | 800 |
| Kanniyakumari | 0 | 78 | 0 | 1121 | 0 | 1 | 1200 |
| Karur | 0 | 15 | 0.26 | 784 | 0 | 1 | 800 |
| Krishnagiri | 0 | 11 | 0.51 | 789 | | | 800 |
| Madurai | 0 | 62 | 0.27 | 738 | | | 800 |
| Nagapattinam | 0 | 156 | 0 | 643 | 0 | 1 | 800 |
| Namakkal | 0 | 10 | 0.76 | 790 | | | 800 |
| Perambalur | 0 | 101 | 0 | 699 | | | 800 |
| Pudukkottai | 0.58 | 172 | 0.16 | 628 | | | 800 |
| Ramanathapuram | 0 | 148 | 0 | 650 | | | 800 |
| Salem | 0 | 3 | 0.13 | 797 | | | 800 |
| Sivaganga | 0 | 141 | 0.46 | 659 | | | 800 |
| Thanjavur | 0 | 111 | 0 | 689 | | | 800 |
| The Nilgiris | 0 | 9 | 0 | 791 | | | 800 |
| Theni | 0 | 19 | 0 | 780 | 0 | 1 | 800 |
| Thiruvallur | 0 | 15 | 0.13 | 784 | 0 | 1 | 800 |
| Thiruvarur | 0 | 66 | 0 | 733 | | | 800 |
| Thoothukudi | 0 | 39 | 0 | 760 | 0 | 1 | 800 |
| Tiruchirappalli | 0 | 44 | 0.13 | 1548 | 0 | 8 | 1600 |
| Tirunelveli | 0 | 37 | 0.17 | 1160 | 0 | 3 | 1200 |
| Tiruppur | 0 | 5 | 0.25 | 794 | 0 | 1 | 800 |
| Tiruvannamalai | 1.12 | 89 | 0 | 710 | 0 | 1 | 800 |
| Vellore | 0 | 4 | 0.76 | 792 | 0 | 2 | 800 |
| Viluppuram | 0 | 12 | 0.13 | 783 | 0 | 4 | 800 |
| Virudhunagar | 0 | 9 | 0.13 | 790 | 0 | 1 | 800 |

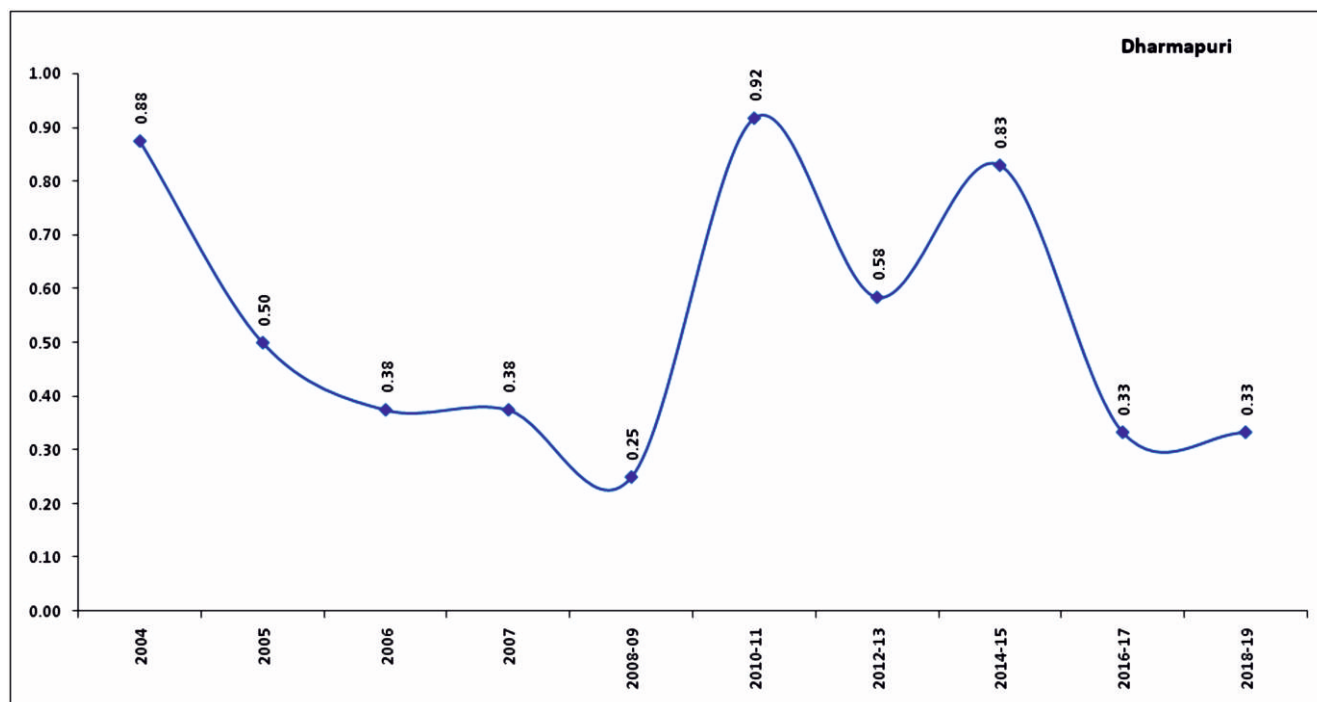
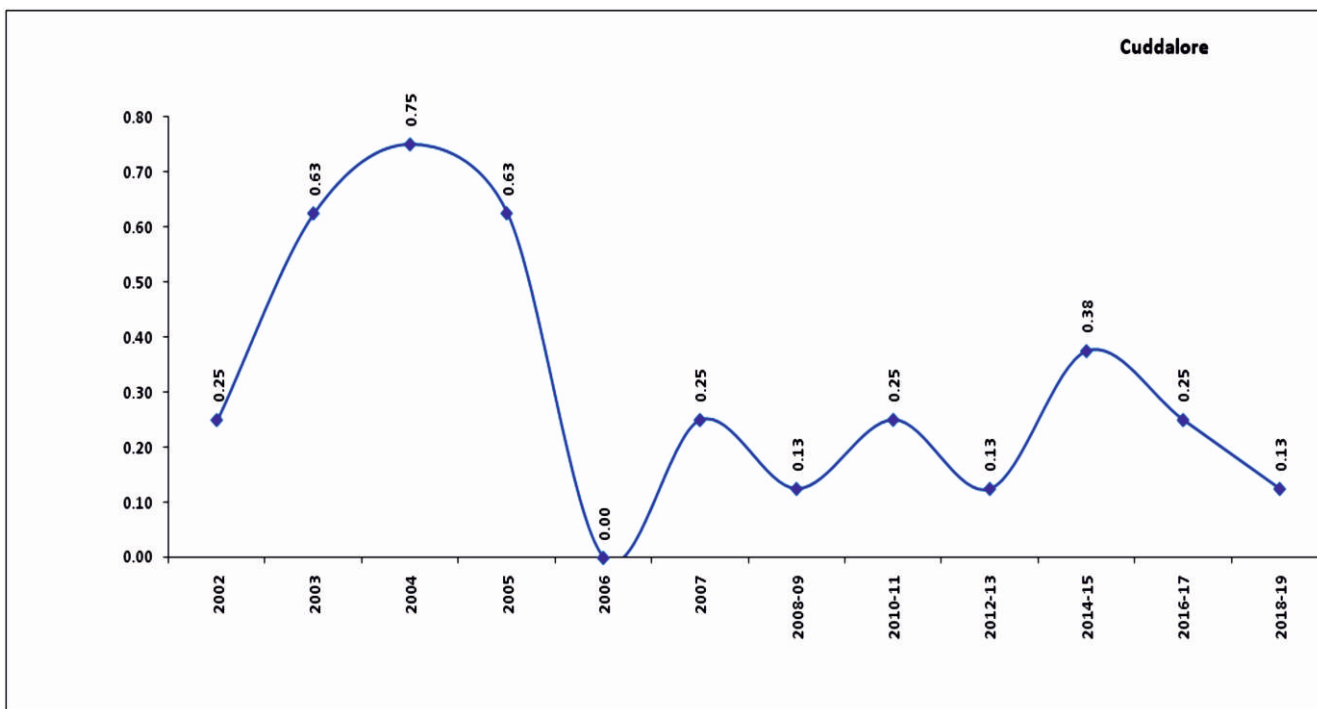
* Not applicable for widowed / unmarried / separated / divorced etc.,

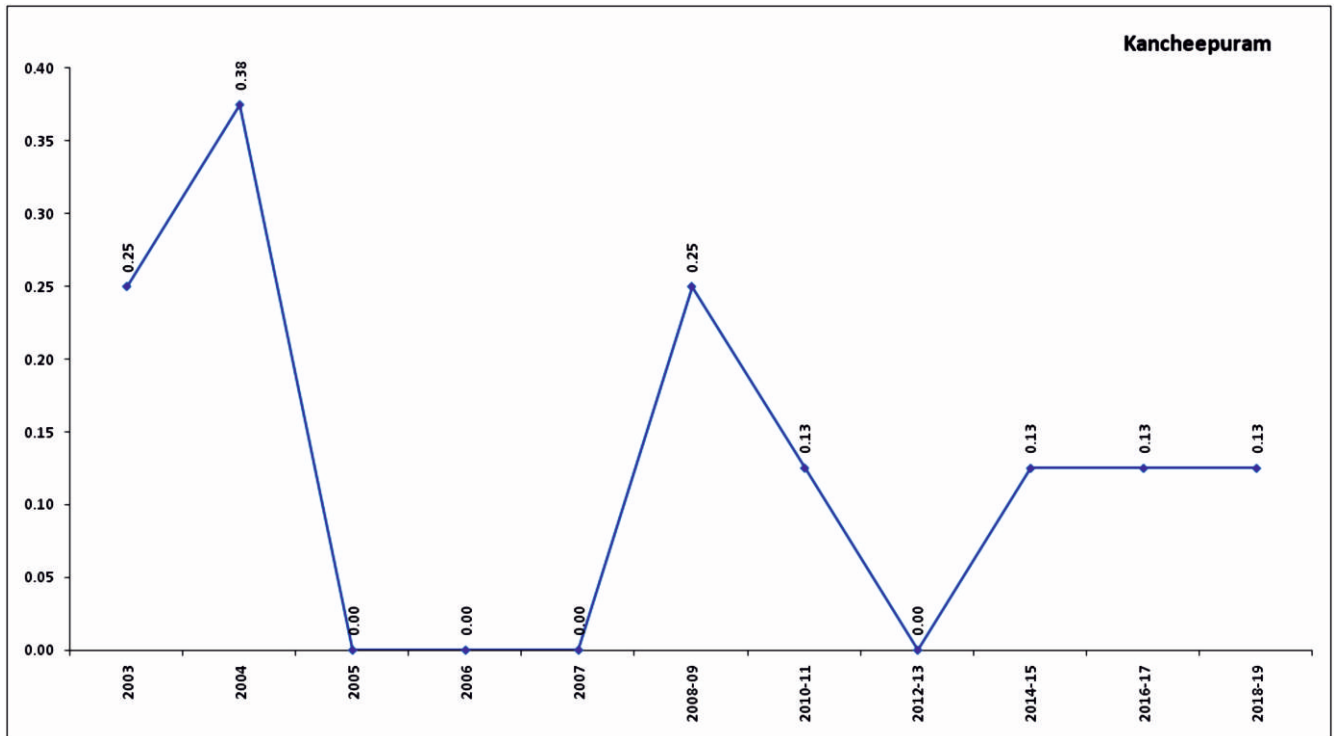
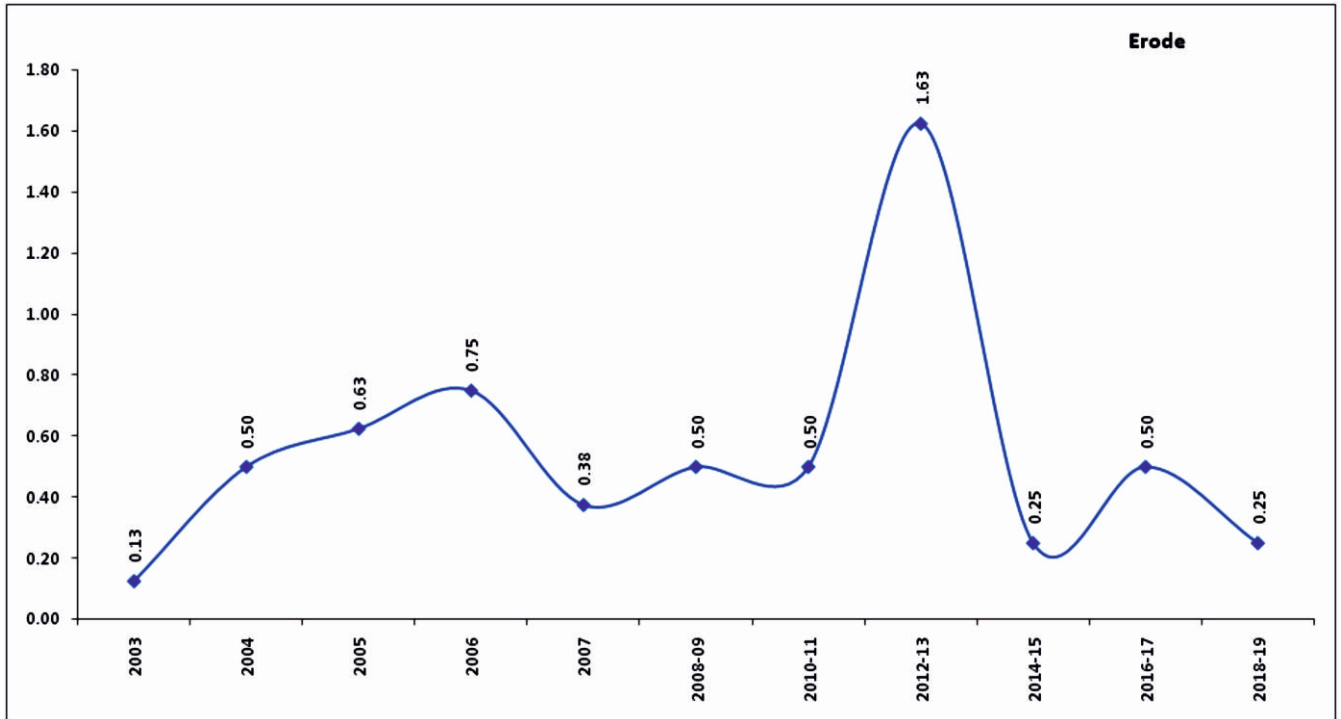
Table 31: HIV Prevalence among ANC Clinic Attendees based on HIV tested history

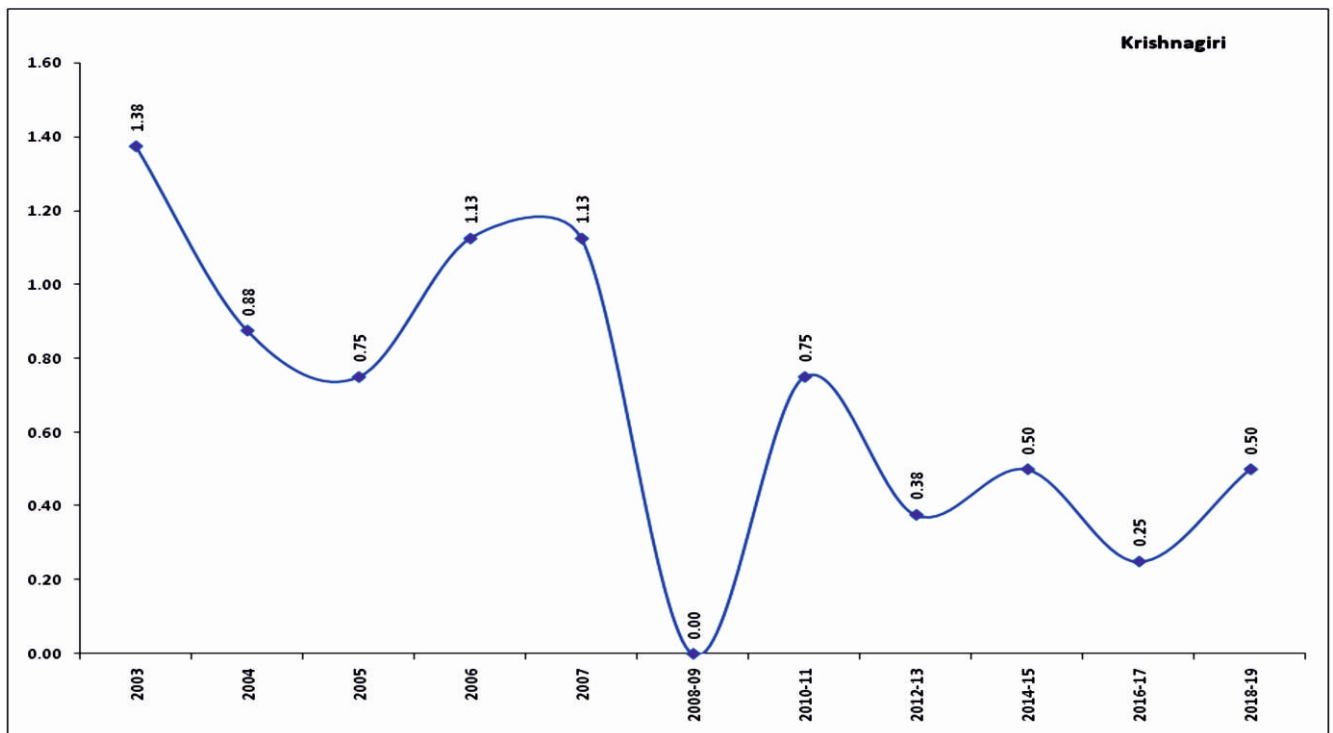
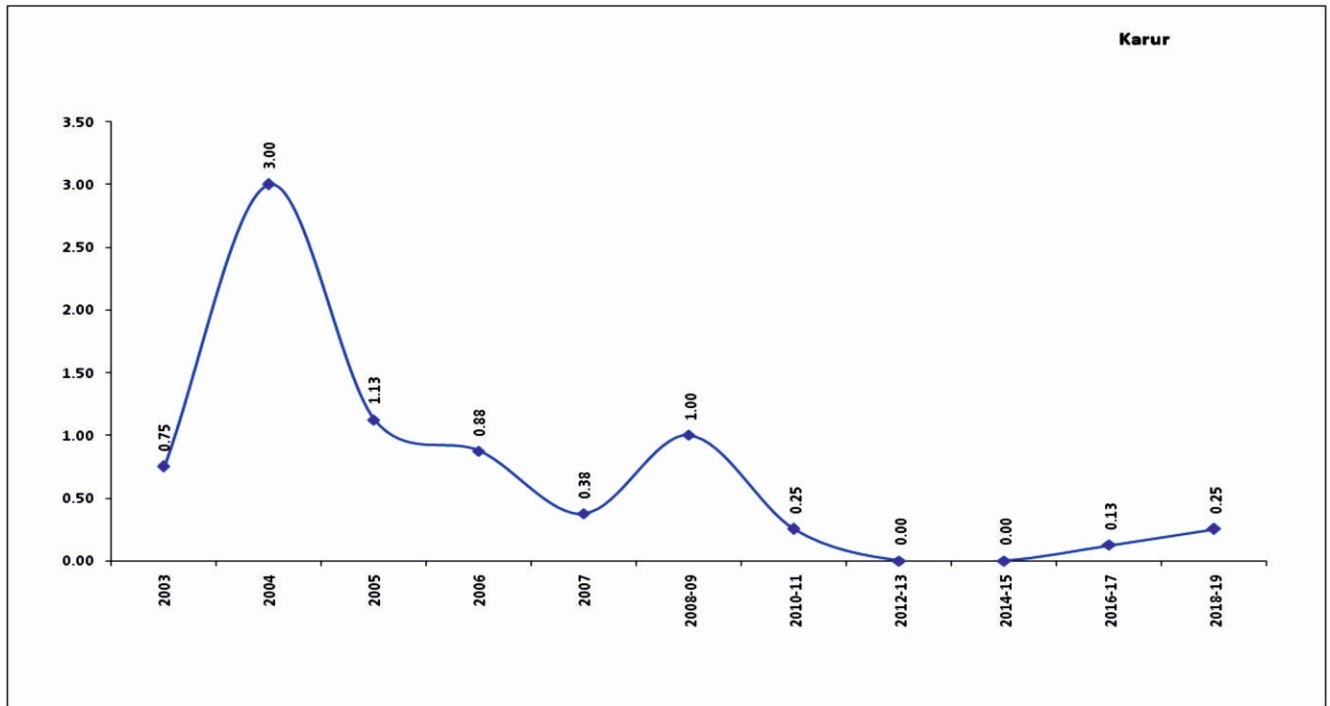
| State/District | Yes | | No | | Total |
|-------------------|------|-------|------|------|-------|
| | % | N | % | N | |
| Tamil Nadu | 0.21 | 23525 | 0.02 | 4875 | 28400 |
| Ariyalur | 0 | 638 | 0 | 162 | 800 |
| Chennai | 0 | 752 | 0 | 48 | 800 |
| Coimbatore | 0.45 | 1319 | 0 | 281 | 1600 |
| Cuddalore | 0.16 | 619 | 0 | 181 | 800 |
| Dharmapuri | 0.34 | 1161 | 0 | 39 | 1200 |
| Dindigul | 0 | 669 | 0 | 131 | 800 |
| Erode | 0.29 | 680 | 0 | 120 | 800 |
| Kancheepuram | 0.16 | 636 | 0 | 164 | 800 |
| Kanniyakumari | 0 | 1014 | 0 | 186 | 1200 |
| Karur | 0.27 | 734 | 0 | 66 | 800 |
| Krishnagiri | 0.53 | 757 | 0 | 43 | 800 |
| Madurai | 0.26 | 763 | 0 | 37 | 800 |
| Nagapattinam | 0 | 737 | 0 | 63 | 800 |
| Namakkal | 0.82 | 728 | 0 | 72 | 800 |
| Perambalur | 0 | 743 | 0 | 57 | 800 |
| Pudukkottai | 0.32 | 623 | 0 | 177 | 800 |
| Ramanathapuram | 0 | 740 | 0 | 60 | 800 |
| Salem | 0.15 | 659 | 0 | 141 | 800 |
| Sivaganga | 0.38 | 781 | 0 | 19 | 800 |
| Thanjavur | 0 | 747 | 0 | 53 | 800 |
| The Nilgiris | 0 | 761 | 0 | 39 | 800 |
| Theni | 0 | 747 | 0 | 53 | 800 |
| Thiruvallur | 0.16 | 645 | 0 | 155 | 800 |
| Thiruvarur | 0 | 583 | 0 | 217 | 800 |
| Thoothukudi | 0 | 628 | 0 | 172 | 800 |
| Tiruchirappalli | 0.24 | 829 | 0 | 771 | 1600 |
| Tirunelveli | 0.17 | 1149 | 0 | 51 | 1200 |
| Tiruppur | 0.54 | 373 | 0 | 427 | 800 |
| Tiruvannamalai | 0 | 568 | 0.43 | 232 | 800 |
| Vellore | 1.62 | 370 | 0 | 430 | 800 |
| Viluppuram | 0.13 | 780 | 0 | 20 | 800 |
| Virudhunagar | 0.17 | 592 | 0 | 208 | 800 |

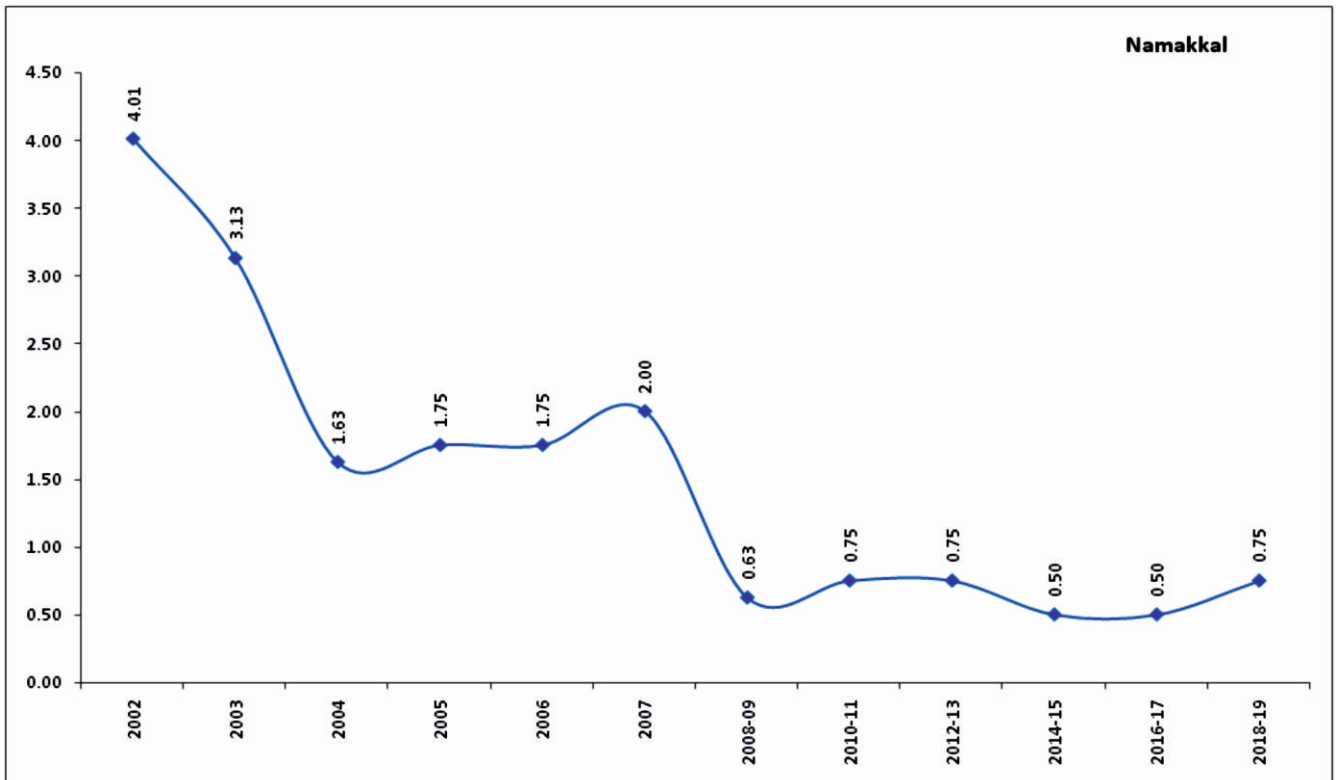
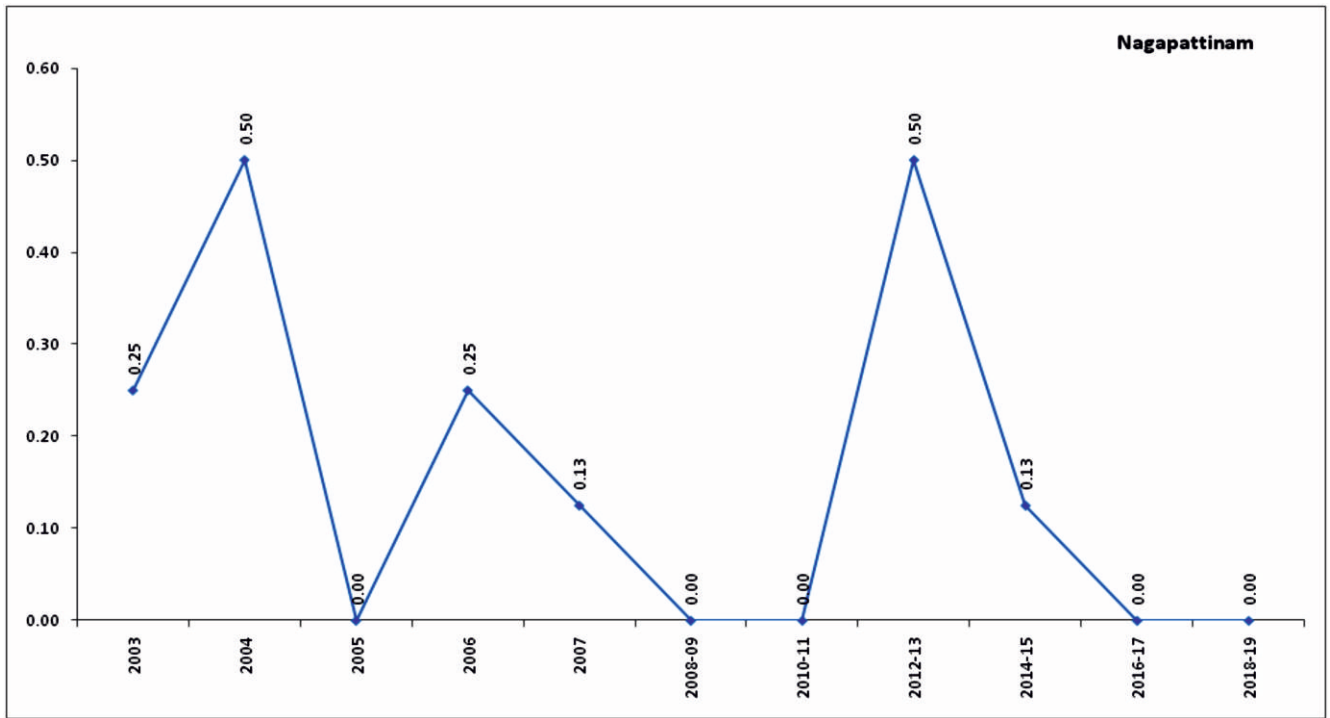
5.2 HIV Prevalence trend at district level



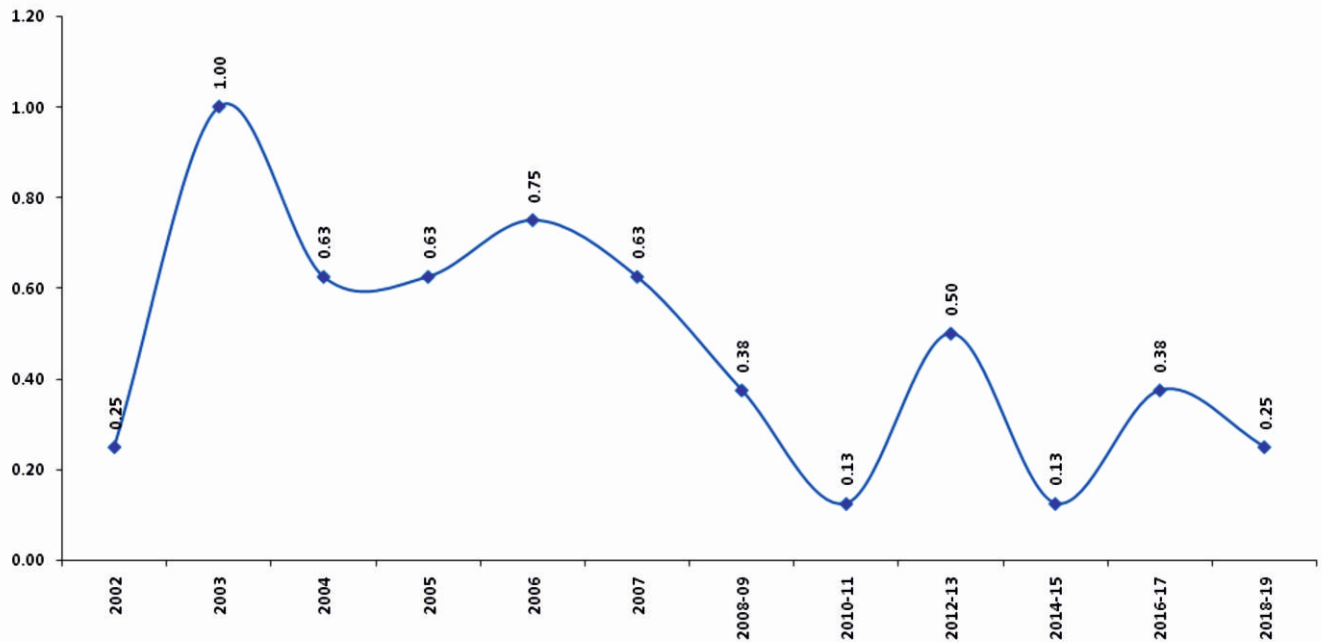




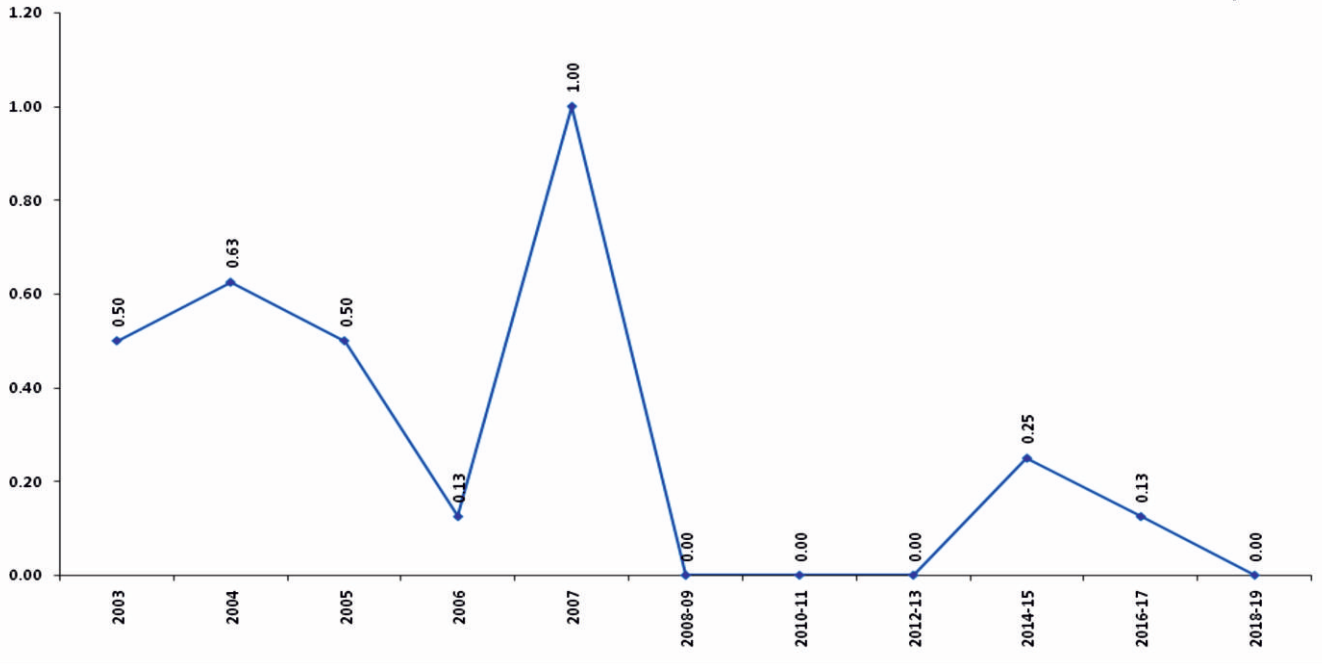


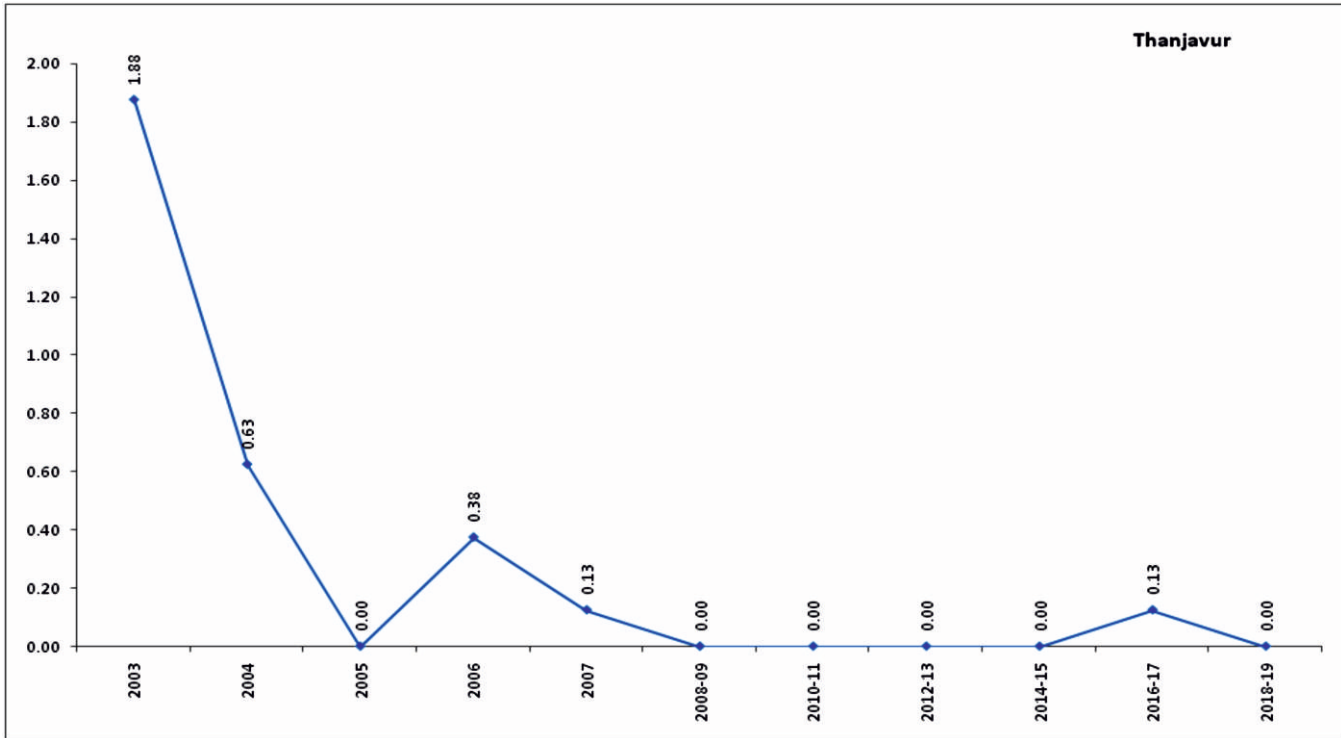
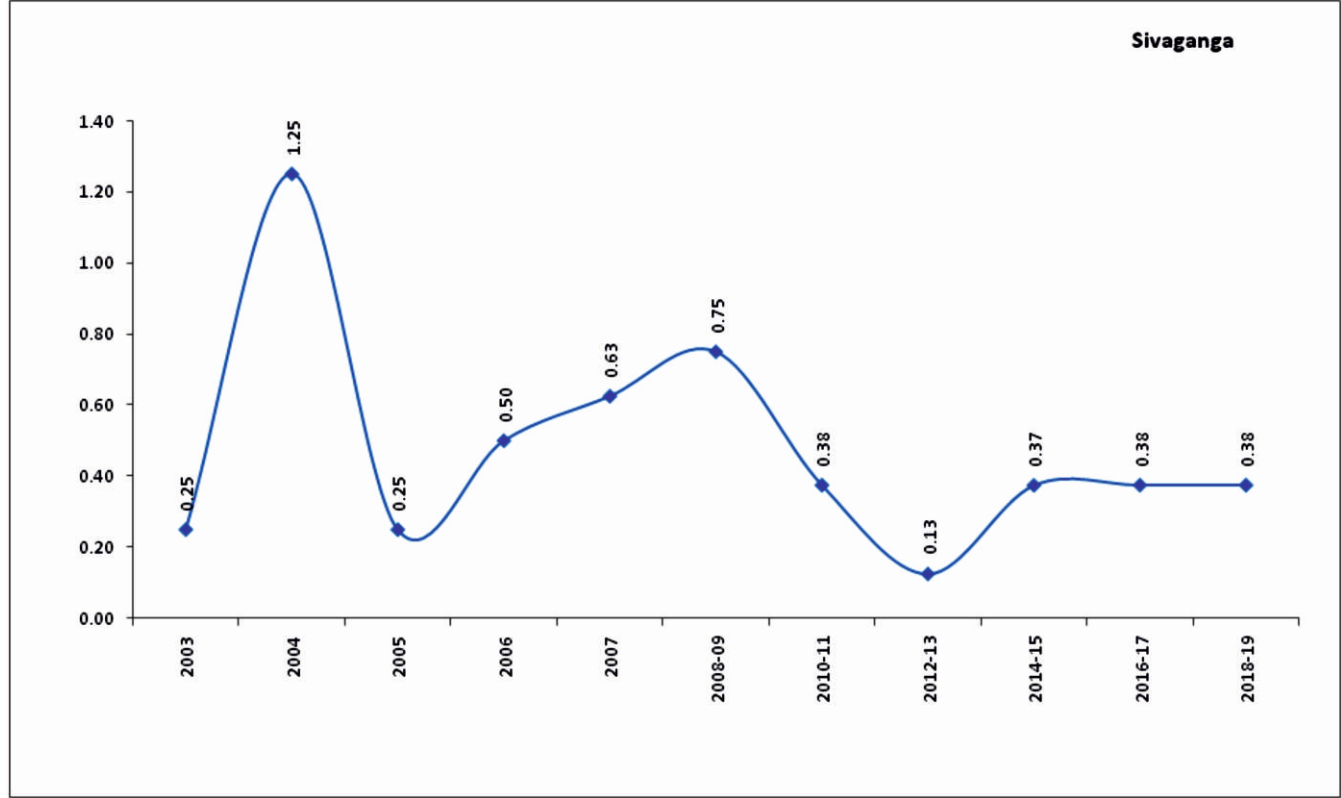


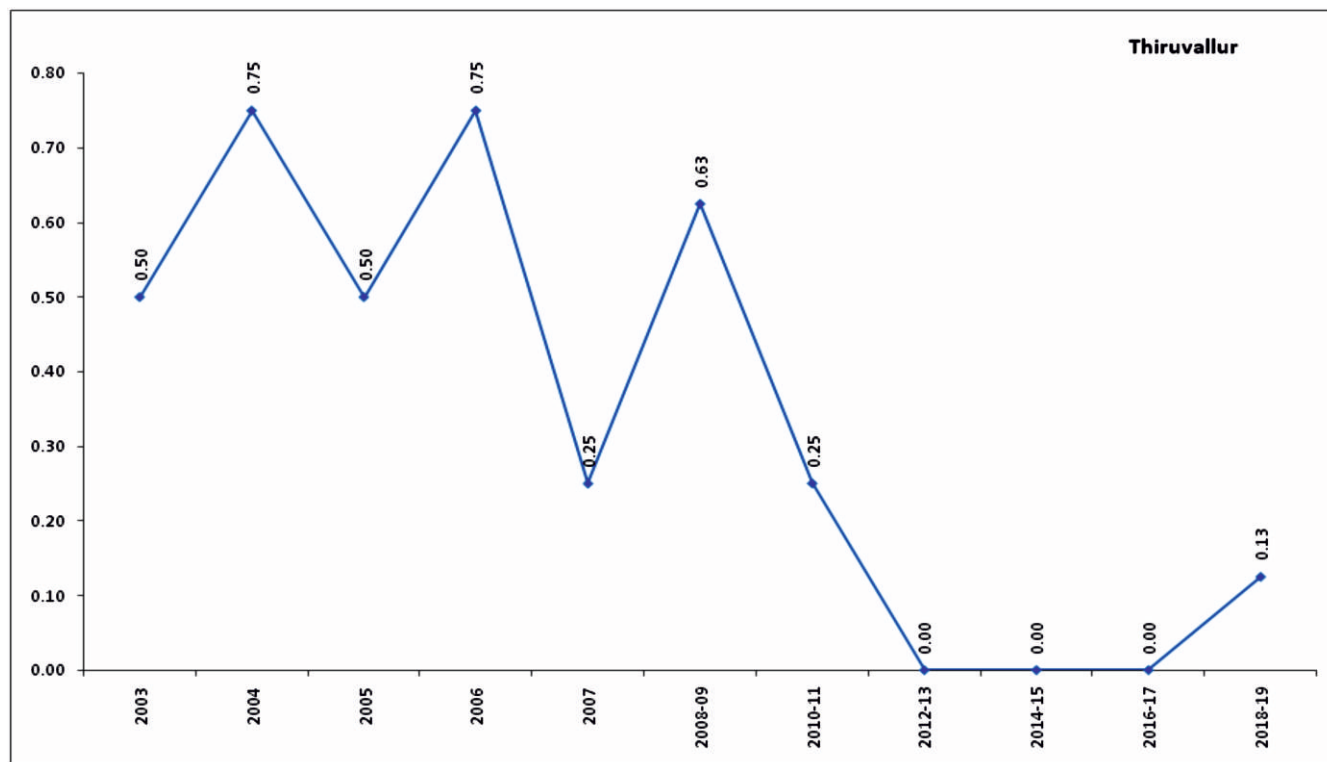
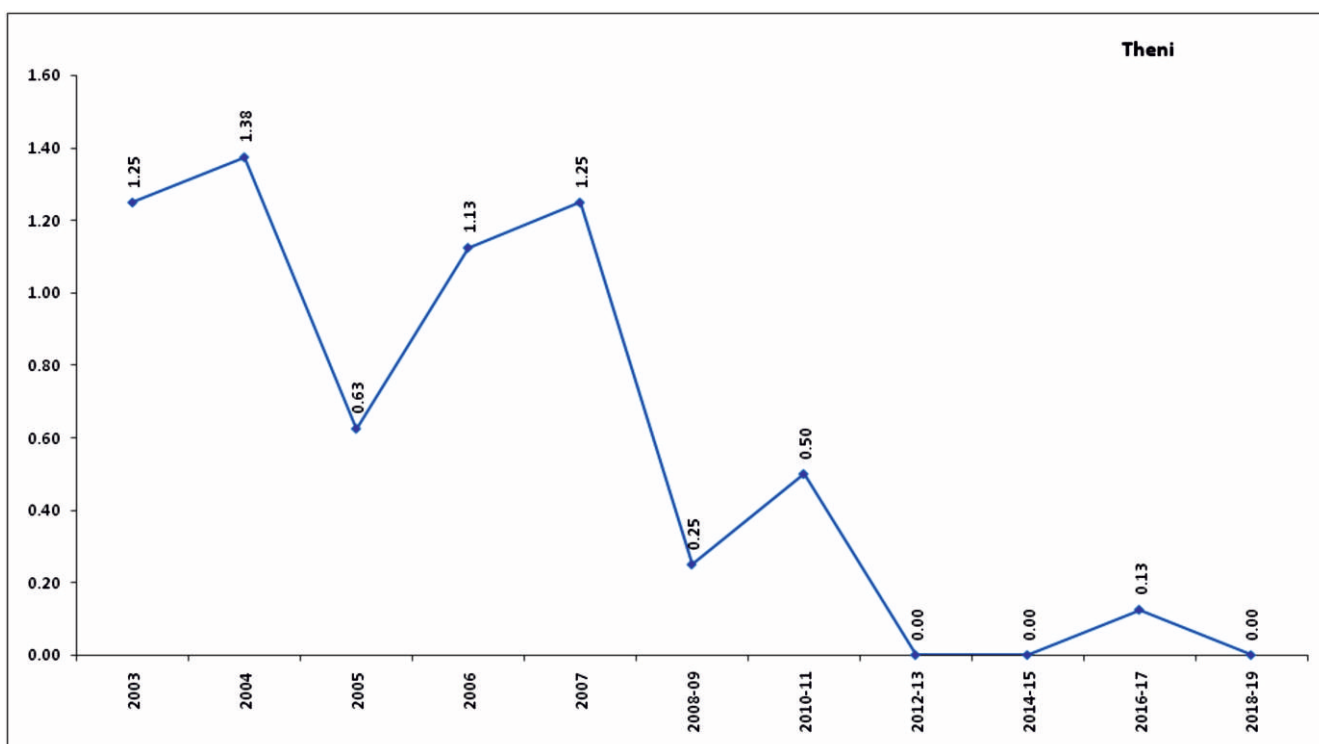
Pudukkottai

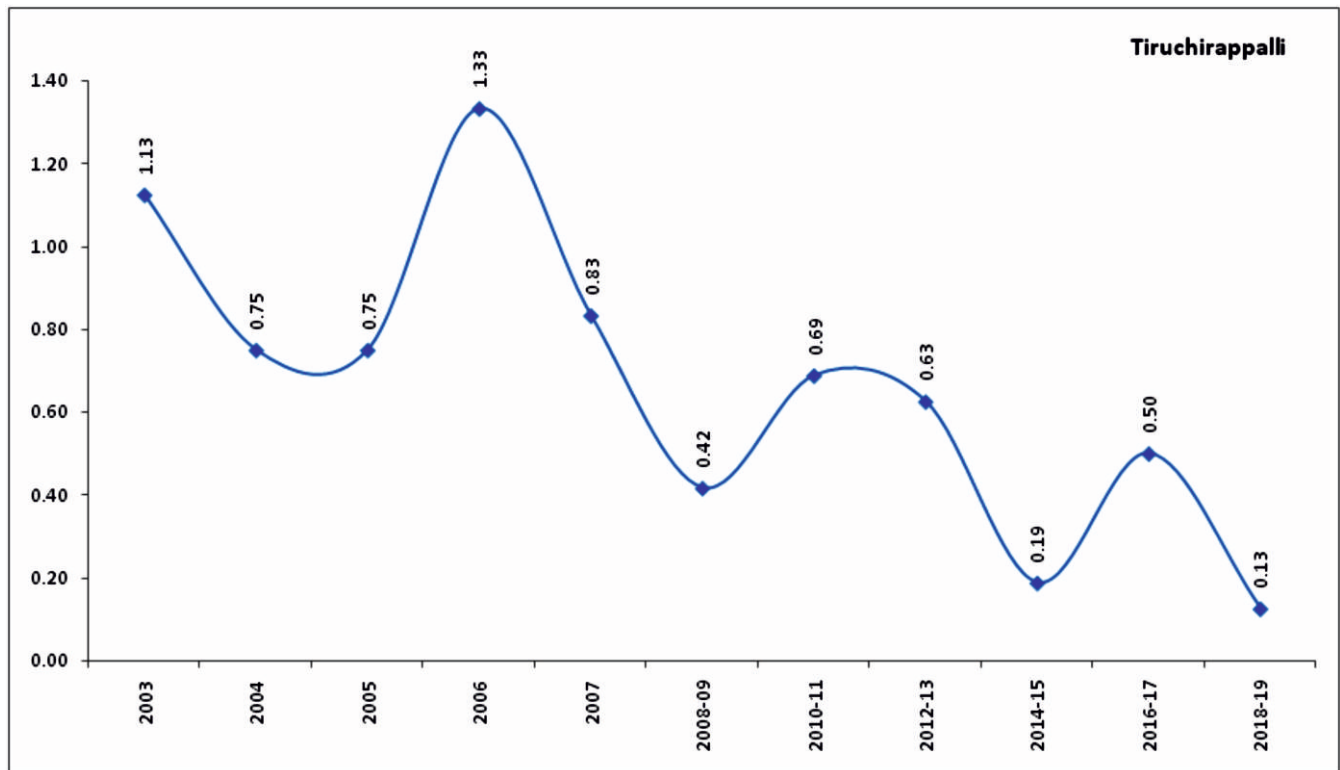
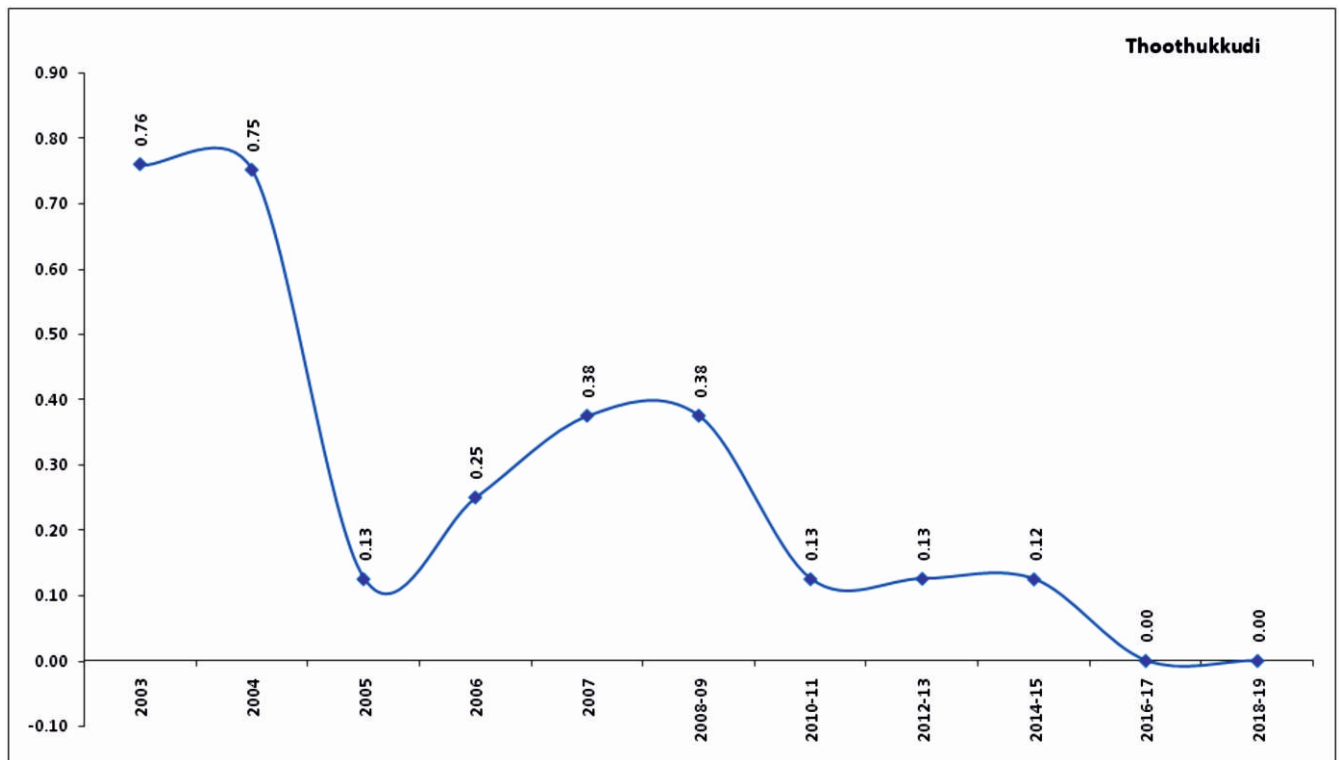


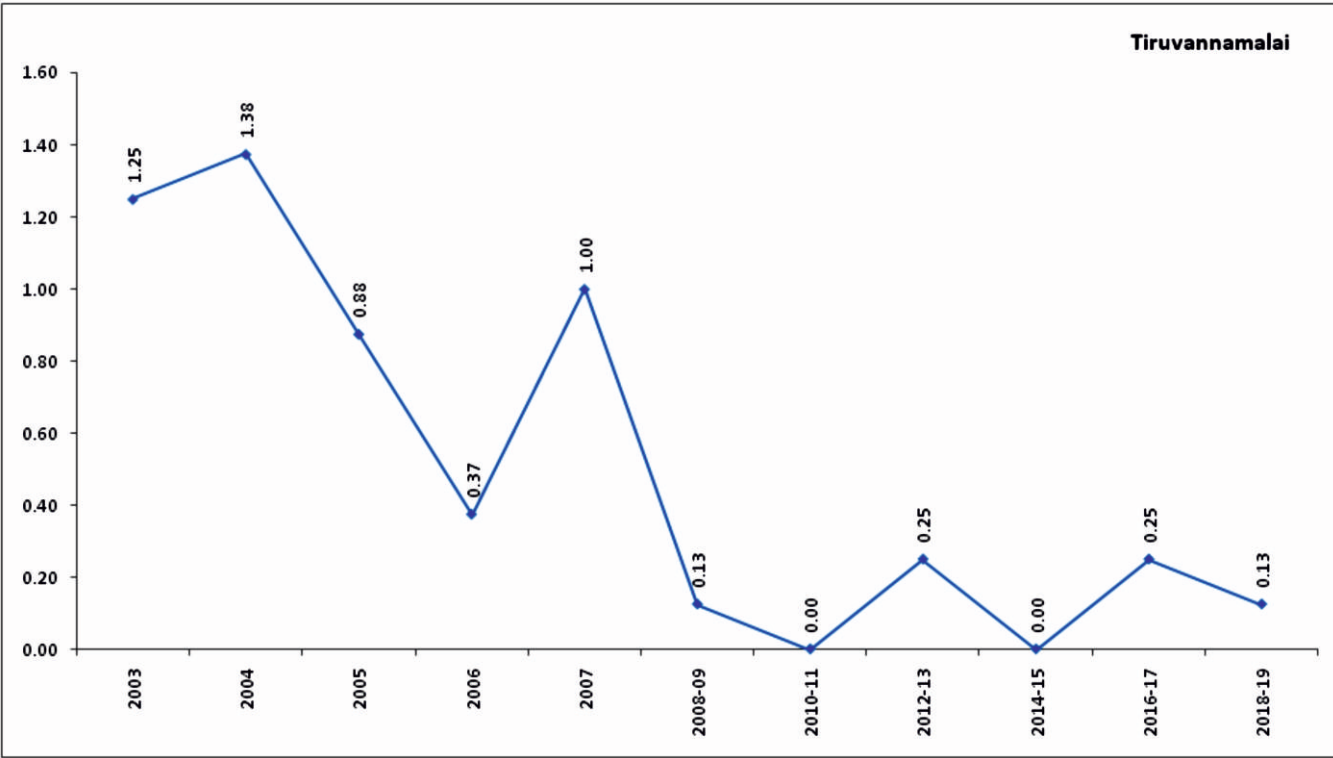
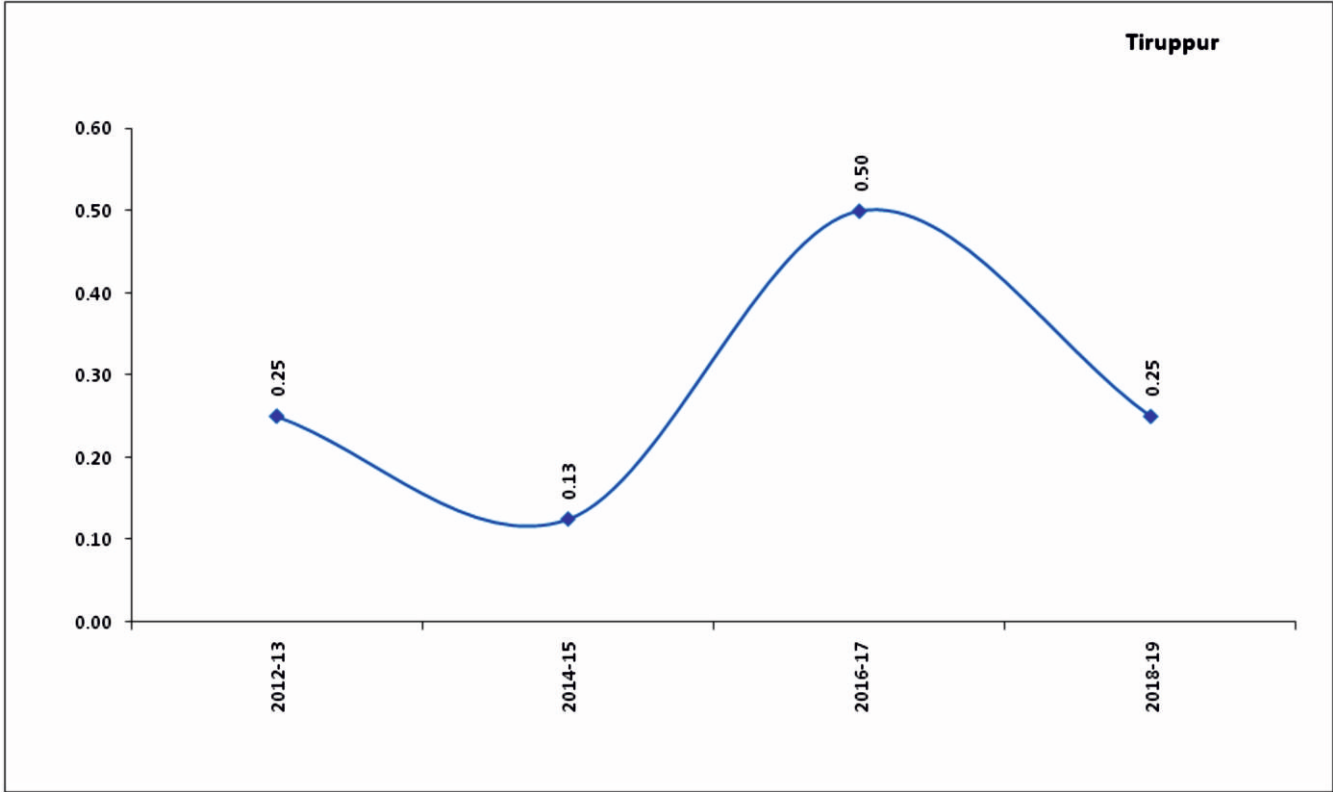
Ramanathapuram

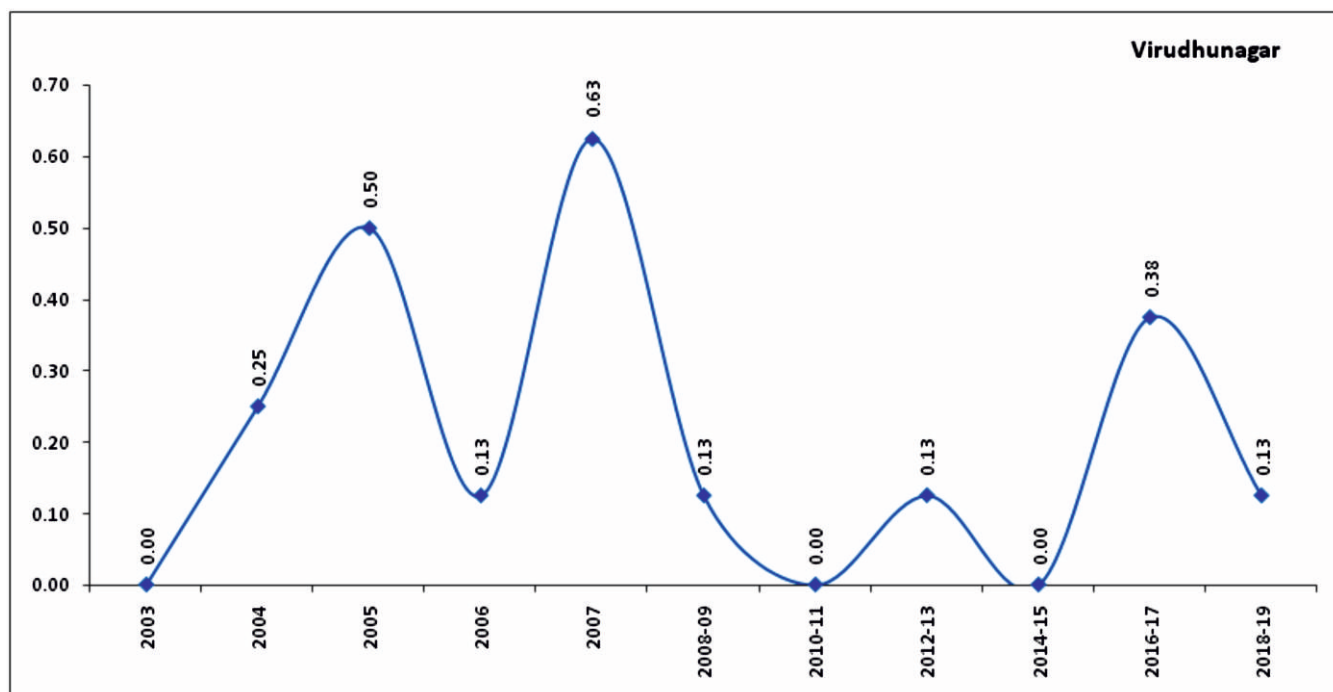
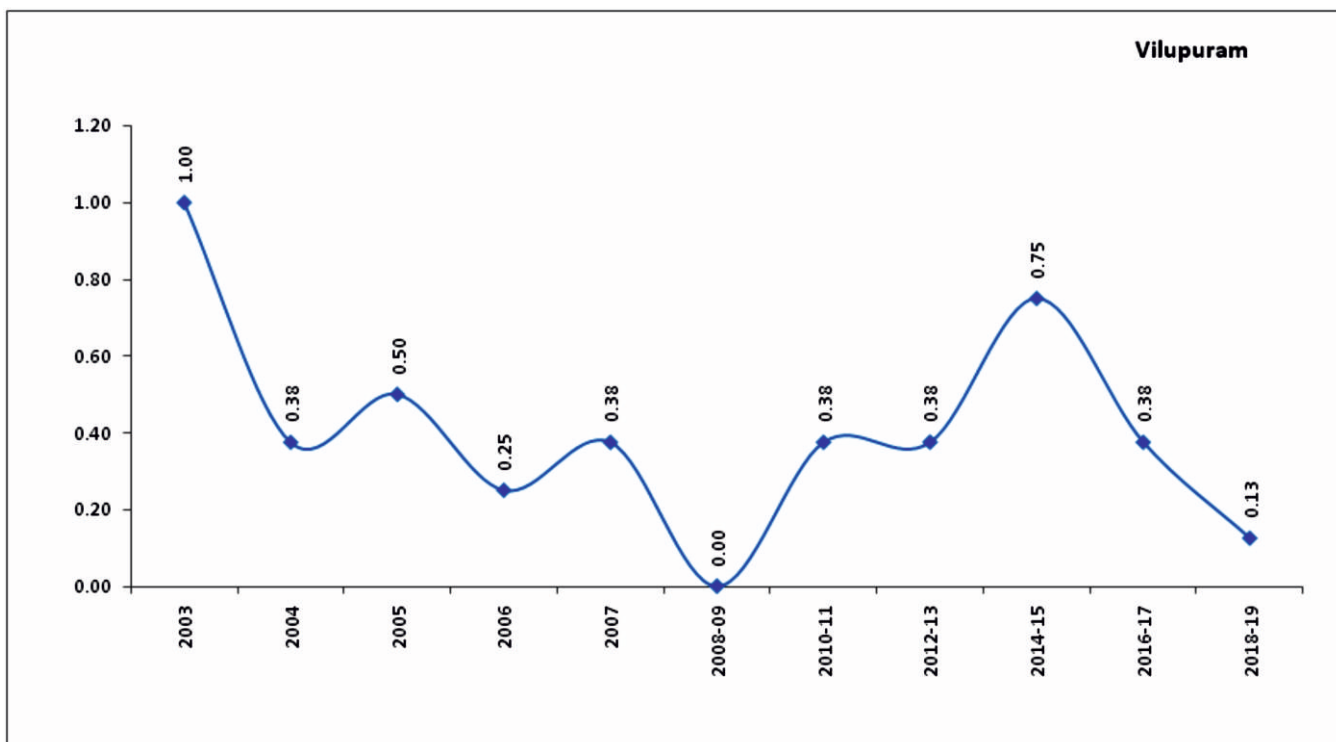












CHAPTER 6

SUMMARY

The 16th round of HSS among pregnant women in 2019 was implemented at 71 sites across 32 districts in Tamil Nadu collecting a total of 28400 complete data forms and biological specimens following consecutive sampling method and linked anonymous strategy as in previous round. In India, Tamil Nadu has the third highest number of ANC HSS sites.

The median age of respondents were 24 years in the state and ranged between 15 and 44 years across the districts. The overall HIV prevalence among ANC clinic attendees in Tamil Nadu in 2019 was low 0.18% (95% CI: 0.13%-0.22%). District-wise, Vellore (0.75%), Namakkal (0.75%), Krishnagiri (0.50%), Sivagangai (0.38%) and Coimbatore (0.38%) were the top five districts with high HIV prevalence. Dharmapuri (0.33%), Tiruppur (0.25%), Pudukottai (0.25%), Madurai (0.25%), Karur (0.25%), and Erode (0.25%), were other major districts with HIV prevalence higher than the state average. Thirunelveli recorded HIV prevalence of 0.17%. Virudunagar, Villupuram, Thiruvanamalai, Thiruchirapalli, Thiruvallur, Salem, Kancheepuram and Cuddalore recorded HIV prevalence of 0.13%. The remaining 12 districts had zero HIV prevalence among the ANC attendees.

HIV prevalence among ANC clinic attendees exhibits a declining trend at the state level as well as in most districts including Chennai. A rising trend in recent past has been noted in Vellore and Namakkal.

Overall, HIV prevalence appears to be higher among those who are either illiterate or only primary literate. HIV Prevalence was the highest among pregnant women who were non-agricultural labours. Pregnant women with spouses working as local transport worker or hotel staffs also have higher prevalence.

Findings from 2019 round of ANC HSS corroborates with previous rounds showing a low and declining trend at the state level, with persistent geographical diversity at district level. Sustained declining trend among ANC clients nationally and at the state-level, is positive indicator of the successful response of the National AIDS Control Programme (NACP). However, district-level fluctuating trends is a continuing challenge. The findings will be used as a compass by the policy makers and programme managers towards achieving 'End of AIDS' as a public health threat by 2030.



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