

COVID-19 SERO SURVEY *in* HARYANA

ROUND-2
OCTOBER 2020

INTEGRATED DISEASE SURVEILLANCE PROGRAMME (IDSP)

HEALTH DEPARTMENT, HARYANA

**Sero-prevalence of Anti-SARS-CoV-2
IgG antibodies in Haryana, India:
A Population based Cross-Sectional Study
(2nd Round)**

OCTOBER, 2020

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ACKNOWLEDGMENTS

COVID-19 Sero Survey was envisaged by **Sh. Anil Vij, Hon'ble Health Minister**, Haryana and accordingly in the month of August, 2020, first round was conducted successfully in the State. Inspired by the results of first round, 2nd round of Serological Survey study for COVID-19 was planned and successfully conducted in the month of October, 2020. It would be beyond the purview of words to thank Hon'ble Health Minister for the kind of support and guidance he provided to conduct a study of such a quantum. I convey my sincere gratitude and thanks to Hon'ble Health Minister, Haryana.



My deepest gratitude and thanks to **Sh. Rajeev Arora IAS**, Worthy Additional Chief Secretary (Health) to Govt. of Haryana for his incredible support and motivation, not only during this Sero Survey but also for all kind of public health interventions required in the State especially for the prevention and management of COVID-19.

I would also like to thanks **Sh. V. Umashankar IAS**, Principal Secretary, Department of IT Electronics & Communication and HARSAC, under whom directions and guidance State eGov Mission Team (SeMT), DITECH developed “**COVID-19 Sero Survey Mobile Application**” in such a short span of time. The kind of technological support provided to State & District teams in form of “**COVID-19 Sero Survey Mobile Application**” really helped the Surveyor, Supervisors and Laboratories to complete this task with ease in timely manner. The salient features of Mobile App as mentioned below, facilitated the completion of survey smoothly as compare to IT tool used in first round of Sero Survey.

- Online real-time data entry
- GIS Mapping
- User Friendly
- Accessible in both Mobiles and Desktop
- Lab Entry by Desktop Inter-face
- Data export facility
- Offline Data Entry
- Auto Generated SMS of Sample Tested

I convey my thanks to Mr. Munish Chandan (Head), Mr. Bhanu Pratap Sr. Consultant and their Software Development Team from State eGov Mission, DITECH for very needed field level coordination both technical and operational and developing a user-friendly mobile application and web portal for the smooth conduct of this Sero Survey.

My sincere acknowledgement and thanks to **Sh. Prabhjot Singh IAS**, Mission Director, NHM, Haryana for providing all necessary financial support to conduct the 2nd round of sero survey. I also appreciate

the kind of support and contribution provided by Dr. Suraj Bhan Kamboj, Director General Health Services, Haryana for his continuous guidance and advice throughout which helped me a lot throughout the Sero Survey.

I would like to thank all the Civil Surgeons of the State and their dedicated teams of Doctors, Supervisors, Microbiologists, Lab Technicians, MPHs and other paramedical staff from core of my heart who did the real ground work of sampling and testing at district level. I again extend my special gratitude to all Microbiologists and Lab support Staff who worked hard to tests the collected samples.

At last but not the least, I would like to use this opportunity to thanks State RRT Members of various Medical Colleges of Haryana who travelled across the State to supervise the field activity, Dr. Suresh Kumar Bhonsle, State Nodal Officer (IDSP), Dr. Shallu Garg, Additional Senior Medical Officer (IDSP) and State IDSP Team who worked so hard to get this herculean task completed well in time.

A handwritten signature in black ink, appearing to read 'Usha', with a long horizontal line extending from the bottom of the signature.

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EXECUTIVE SUMMARY

Surveillance of antibody sero-positivity in a population can allow inferences to be made about the extent of infection and cumulative incidence of infection in the population. WHO global research map for COVID-19 recommends repeated cross-sectional sero-epidemiological investigations in the same geographical area (but not the same individuals each time) to generate data for recommending containment measures. The initial survey, carried out in all 22 districts of Haryana, in the month of August 2020, served as a baseline to determine the sero-prevalence of SARS-CoV-2 infection in the community while the subsequent round helped in monitoring the trend of infection. This sero-surveillance is designed as a repeated cross-sectional survey of adults aged 18 years and above. With 8% of sero-surveillance in the state in round I, 1% absolute precision, 99% confidence level and design effect as 3, minimum sample size was calculated as 14652 (666 per district) which was rounded off to 720 per district. Stratified multistage random sampling was done and sample of 720 was divided into 60:40 ratio of rural (432) and urban population (288). In each district, 12 clusters were made in rural area having a sample size of 36 each and four clusters in urban area with a sample size of 72 each. Field work area of sample collection was done by State health services. Mobile application developed by the IT Department of Haryana State was used to capture real-time data at household level and on-site supervisory data.



PGIMS, Rohtak team helped in planning of project, training of District nodal officers and District field teams via video conferencing, supervision of districts while working as State RRT coordinators for allotted districts, data analysis and result writing. State health department provided all resources including human resources, laboratory logistics and overall leadership for execution of such massive survey. All data collection and laboratory testing were done by district teams and laboratories.

Overall sero-positivity in the State in round 2 is 14.8%. There are district-wise variations with highest prevalence of 31.2% in District Faridabad followed by 28.6% in Yamunanagar district. Six districts have been found to have sero-positivity prevalence below 10%, namely, Bhiwani, Charkhi Dadri, Mahendragarh, Sirsa and Hisar. There are rural-urban and male-female variations within the districts as well. For example, District Faridabad has 39.7% sero-positivity in urban as compared to 25.4% in rural and District Yamunanagar has sero-positivity rates of 22.4% in urban and 37.1% in rural areas. Also, these rates are higher in males in Districts Jind and Panipat i.e. 28.6% and 25.0%, respectively as compared to females i.e. 24.8% and 21.1%, respectively. In contrast to this, District Kurukshetra has higher sero-positivity in females (14.8%) than males (11.2%).

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2nd round of Sero-prevalence of anti-SARS-CoV-2 IgG antibodies in Haryana, India: A Population-Based Cross-Sectional Study

BACKGROUND

Globally, as on, 28 October 2020, there have been 43,540,739 confirmed cases of COVID-19, including 1,160,650 deaths, reported to WHO¹. Rapid identification and reporting of new cases and clusters has been suggested with geographically comprehensive surveillance systems, especially for high-risk populations. Recommended approaches in this context are contact tracing, door-to-door case finding, community testing for high-risk groups, ILI/SARI surveillance, mortality surveillance, telephone hotlines, participatory surveillance and serological surveillance².

Serologic testing indicates whether a person was infected with the COVID-19 virus, irrespective of presence or absence of symptoms or severity of the infection. Population-based surveys of antibody seropositivity can, therefore, help to provide estimates of the cumulative incidence of COVID-19 infection in the general population, which is not possible with hospital-based surveillance systems. Such a sero-survey can also be used to estimate the proportions of Severe Acute Respiratory Syndrome due to COVID (SARS-CoV-2 virus) and unidentified cases, among those infected and the proportion of population protected against future infections³.

WHO suggests three possibilities to conduct the sero-epidemiological investigation, namely, cross-sectional investigation, repeated cross-sectional investigation in the same geographical area (but not necessarily the same individual each time) and longitudinal cohort study with serial sampling of the same individuals each time. The one-time cross-sectional investigation is more suitable to be conducted after the peak of transmission of the epidemic while, in a pandemic situation, establishing a longitudinal cohort will be resource intensive. India is still in the early stages of the epidemic. Hence, it may be worthwhile to conduct repeated cross-sectional surveys at the level of general population, for suggesting appropriate public health responses. Such surveys have been conducted in Delhi, where the sero-prevalence of COVID-19 increased from 22.8% in phase I in July to 29% in phase II in August and in Ahmedabad, where it increased from 17.68% in phase I in June to 23.24% in phase II in August 2020.

We, therefore, planned a community-based, district level sero-surveillance activity to estimate and monitor the trends of sero-prevalence of SARS-CoV-2 infection in the general population and high burden cities. The sero-prevalence of 8%, detected in the initial survey done in the month of August 2020 in the state of Haryana, served as a baseline for SARS-CoV-2 infection in the community and especially in high burden cities (hotspots as well) while the subsequent round will help to monitor the trend of infection in the community. This information will serve as a guide for decisions making related to control of infection at district level and in hotspots.

AIM

To estimate and monitor the trends of sero-prevalence of SARS-CoV-2 infection in the general population and high burden cities of Haryana.

OBJECTIVE

To estimate the state level sero-prevalence of anti-SARS-CoV-2 IgG antibodies in State of Haryana.

METHODOLOGY

Study design was cross sectional with stratified multi-stage random sampling.

SAMPLE SIZE:

Taking sero-prevalence of 8%⁴ in the state of Haryana from the phase I (p), absolute precision of 1%, 99% confidence level and design effect as 3, minimum sample size came out to be 14,652 i.e. 666 per district. This was rounded off to 720 per district.

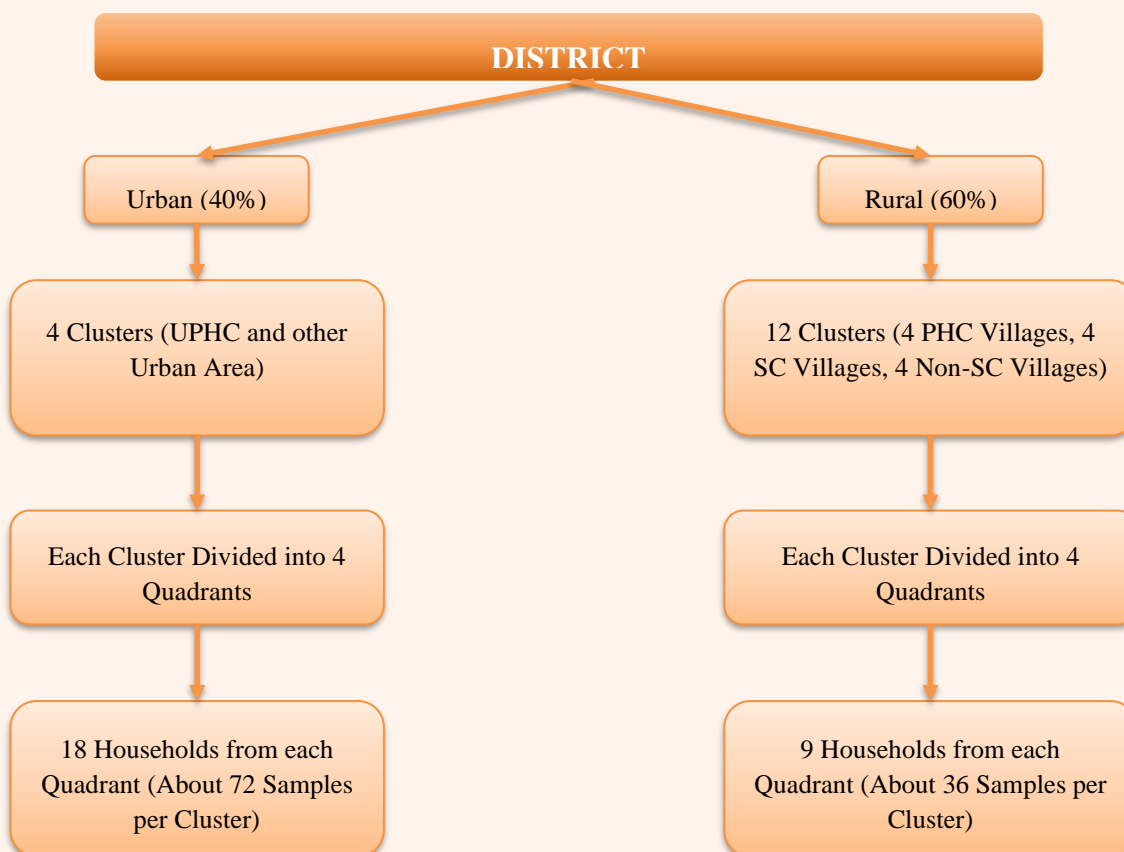
SAMPLING DESIGN:

Stratified multistage random sampling was done. Total sample of 720 was divided into two strata: Rural and Urban. Since, in Haryana state, ratio of rural to urban population is roughly 60:40, these 720 participants were divided into two clusters: 432 Rural and 288 Urban.

To achieve this, multistage sampling was done. In first stage, from each district four PHCs was selected randomly. In second stage from each PHC, one subcenter (SC) was selected randomly. In third stage one non-SC village was selected randomly.

Each of PHC village, SC village and non-SC village constituted a cluster. Thus, there was 12 clusters for rural areas per district and sample size per cluster was about 36. For urban areas, total sample of 288 was divided into four clusters, with sample size of about 72 per cluster.

SAMPLING FRAME



SELECTION OF HOUSES AND PARTICIPANTS IN EACH CLUSTER

Each selected cluster was geographically divided into roughly four quadrants. Middle of each quadrant was marked with its GPS location. Thus, four random GPS locations in each cluster was selected and shared with the survey teams. Survey team visited consecutive houses from this point till required sample size for that location was completed. It was 9 houses per GPS location in rural cluster and 18 in urban cluster.

SELECTION MATRIX TABLE

Number of adult Women in Household	Number of Adults in the Household								
	1	2	3	4	5	6	7	8	9
0	Man	Youngest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man
1	Woman	Woman	Oldest Man	Woman	Woman	Woman	Woman	Woman	Woman
2	X	Oldest Woman	Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man
3	X	X	Youngest Woman	Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man
4	X	X	X	Oldest Woman	Man	Oldest Man	Oldest Man	Oldest Man	Oldest Man
5	X	X	X	X	Oldest Man	Man	Oldest Man	Oldest Man	Oldest Man
6	X	X	X	X	X	Oldest Woman	Man	Oldest Man	Oldest Man
7	X	X	X	X	X	X	Oldest Woman	Man	Oldest Man
8	X	X	X	X	X	X	X	Oldest Woman	Man
9	X	X	X	X	X	X	X	X	Oldest Woman

The above methodology has been chosen to maintain uniformity and comparability with the guidelines adopted during national level sero-surveillance that was done in the recent past.

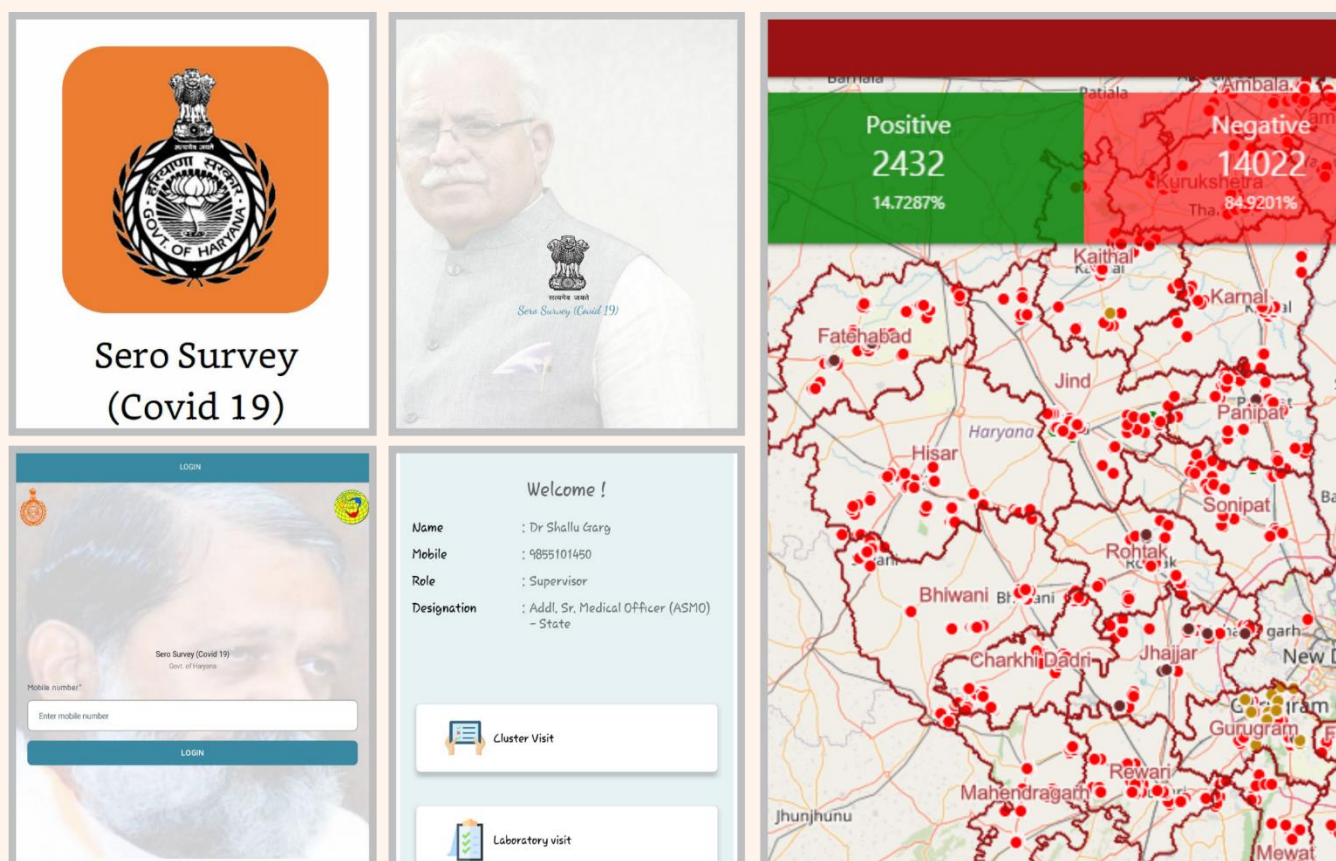
Inclusion criteria: Age above 18 years.

Exclusion Criteria: Age below 18 years and person who was not willing to participate or did not gave consent.

DATA COLLECTION TOOL

To capture real time data an online collection tool was used “**COVID 19 Sero Survey Mobile Application**” developed by the State e Gov Mission Team (SeMT) and DITECH. While developing this android based mobile application the feedback of the concerned officers/ officials of the districts who used “Surveyman App” during round 1 were used. These feedbacks helped IT department to develop a flawless and user-friendly mobile app.

In this app there was in built matrix for the selection of the participant from the identified houses. The newly developed application was having many advantages over the previously used application. This feature helped a lot to the field team in selection of participants and further helped in maintaining the quality of sample selection. In addition to this feature, many dropout lists were included under various questions to facilitate the accurate and smooth data entries at field level. Further, to support the Lab-In charge, facilities were provided in the application to export the data entries of the clusters directly to the concerned lab. This step saves the time of concerned staff during lab testing and updating the results in the application. The GIS maps provided by the output sheet of application, further, enhance the quality of real time monitoring of the field activities by the State IDSP teams and other concerned officials.



STUDY TEAM:

For each cluster there was one team constituting of one medical officer (MBBS, BDS or AYUSH), one HCW of ANM/ LHV, MPHW level preferable of the selected health facility, and one laboratory technician or trained phlebotomist. There was one District Supervisor for every 2 clusters.

TRAINING:

Study team was given training using digital mode about the following:

1. Overall objectives of survey
2. How to select the GPS cluster point within selected cluster
3. How to select first house
4. How to approach the family and take consent
5. How to fill the form using digital mode i.e. **“COVID-19 Sero Survey Mobile Application”**
6. How to prepare blood sample collection kit including vacutainers (or syringe and needle), Bar codes (or other labelling stickers and permanent markers), swabs, tourniquets, and biomedical waste management materials (color coded bags, and strings to tie the bags)
7. How to draw blood sample, label, transport and store.

It was expected that basic training has already been given by the concerned districts and state. However, refresher training was done to bring everyone on the same page.

DEVELOPMENT OF MOBILE APP:

A user-friendly Mobile Application “COVID-19 Sero Survey Mobile Application” was developed in house by Department of IT Electronics & Communication and HARSAC in consultation with the State IDSP cell.

SALIENT FEATURES OF MOBILE APPLICATIONS:

- Online real-time data entry
- Geo tagging
- User Friendly
- Accessible in both Mobiles and Desktop
- Lab Entry by Desktop Inter-face
- Data export facility
- Offline Data Entry
- Auto Generated SMS of Sample Tested

PROCEDURE OF COLLECTION OF SAMPLES:

The study teams visited the randomly selected households and briefed them about the survey. For each house, basic information on age and sex of each family member was recorded. Written consent was taken for their willingness to participate in the study. One consenting adult was included in the study. For consenting adult, team filled the questionnaire and record information on basic demographic details, exposure history to lab confirmed COVID- 19 cases, symptoms suggestive of COVID-19 in the preceding month, and clinical history. Doctor in the team asked the questions and the other team member recorded on the form. At the end of interview, doctor cross checked the form for its completeness and the laboratory technician drew 5ml blood, labelled it and stored it. Team ensured that the bleeding from the punctured site had stopped and the swab used to stop bleeding, along with other biomedical waste generated in the house, was collected properly as per BMW management norms.

Team after completing one GPS location point in the cluster and then moved to the next point. Some of the clusters may required more than one day. At the end of sample collection from the cluster, all samples were immediately transported to the designated laboratory for processing.

ELISA:

ELISA kit and methodology generated for estimation of IgG antibodies was used as per guidelines of ICMR. All data was entered in an android based COVID-19 Sero Survey Mobile App/Web Portal.

DATA ANALYSIS:

Analysis of data and results was done to give the estimates of sero-prevalence at district and state level. Exploratory results were also be given as area-wise positivity rate (Rural/Urban), gender-wise (Male/Female), clinical status wise (symptomatic/asymptomatic).

EXPECTED OUTCOME:

The population based sero-epidemiological study has helped us to determine the burden of COVID-19 infection at the community level in the state of Haryana.

HUMAN PARTICIPANT PROTECTION AND ETHICS COMMITTEE APPROVALS

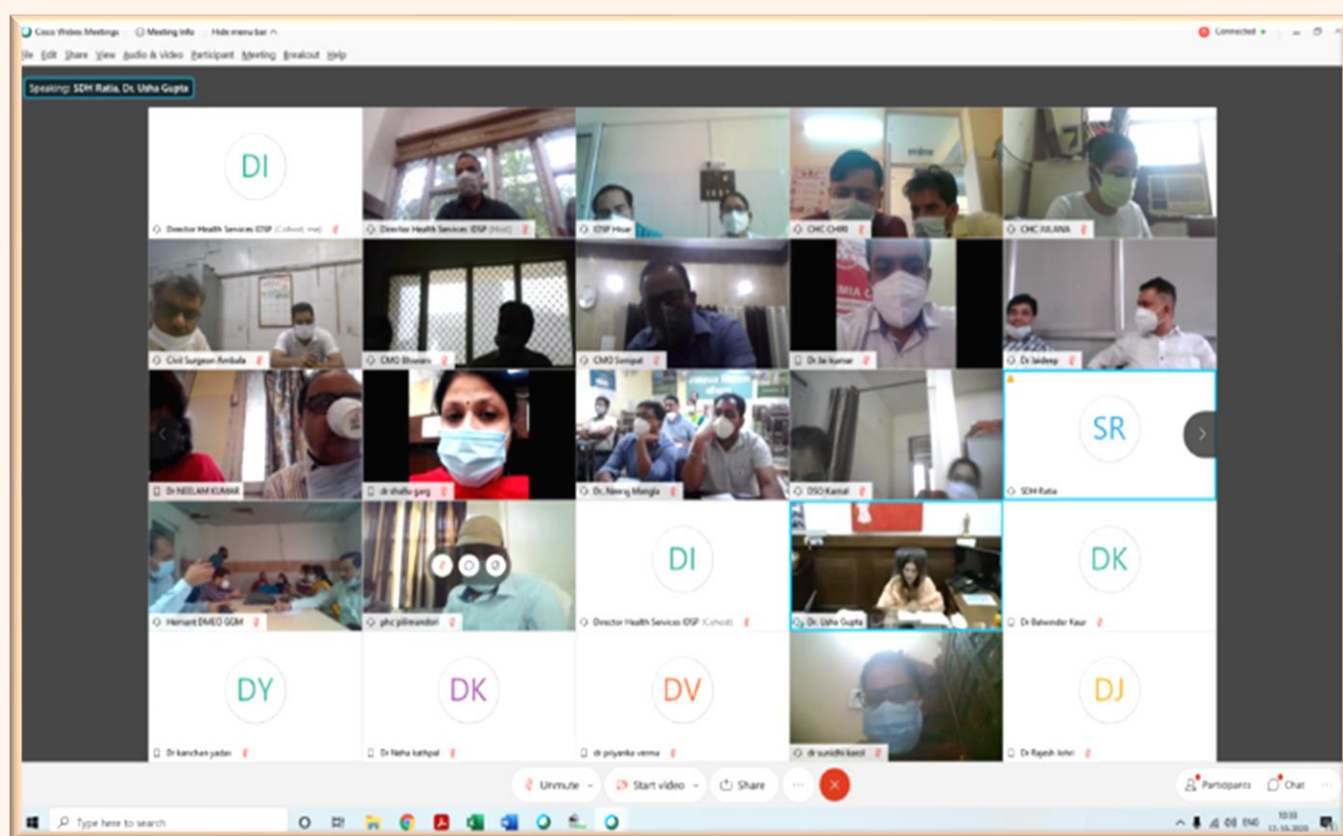
Since state is undertaking sero-surveillance as part of the national guidelines. Districts are supposed to do this in routine to take evidence based public health actions. This type of surveillance is exempted from the ethics committee approvals.

Participants were informed about the study objectives, importance of the survey, and their results. Informed verbal consent was taken. They were free to participate or refuse.

TRAINING AT STATE AND DISTRICT LEVEL

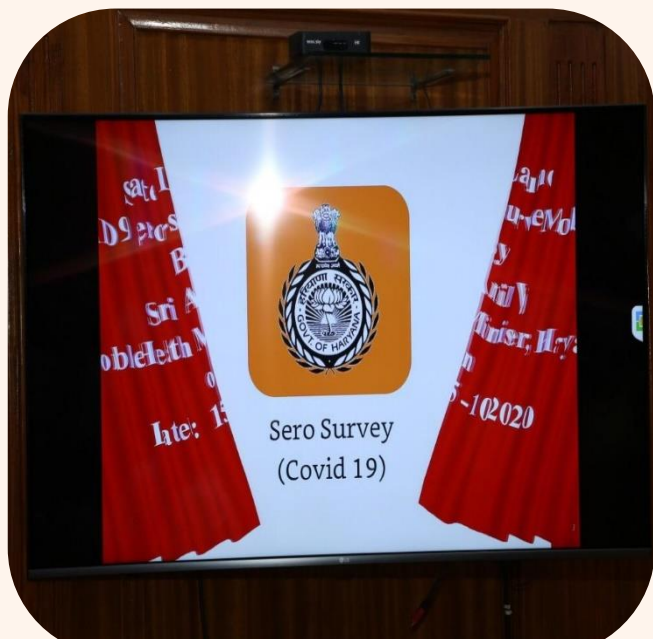
State IDSP Cell had created two Whatsapp groups with about half the districts in each group. Digital trainings were organized for District Nodal Officers Sero Survey, DSOs, surveyors, district microbiologists, team supervisors along with State RRT members and Lab-incharges. State organized these trainings using Cisco Webex meeting application. During the training participants were introduced to the newly inhouse developed COVID-19 Sero-Survey Mobile Application. During training, live demonstration of the mobile Application was also given to participants.

- a) On 12th October, 2020 all the DSOs, District Nodal Officers Sero Survey and survey teams participated in the online training. Training was imparted in two different batches with 11 districts each batch. Information of detailed Sero Survey study was given. Information of District wise distribution of clusters and division of clusters in Quadrant was given. Distribution of team members and supervision of the team was also explained.



LAUNCH OF "2ND ROUND OF COVID 19 SERO SURVEY" AND "SERO SUVERY MOBILE APP"

On 15th October, 2020 Sh. Anil Vij, Hon'ble Health Minister, Haryana virtually launhed the 2nd round of COVID 19 Sero Survey in the esteemed presence of Sh. Rajeev Arora IAS, Additional Chief Secretary (Health) Govt. of Haryana. On this occasion Sh. Ashok Kumar Meena IAS, CEO Ayushman Bharat Haryana (AB-HHPA), Sh. Prabhjot Singh IAS, MD NHM, Dr. Suraj Bhan Kamboj DGHS, Haryana, Dr Usha Gupta DHS (IDSP) and State IDSP team officers/ officials were also present. Dr Usha Gupta DHS (IDSP) gave the detailed presentation on Sero Survey. The Hon'ble Health Minister also launched the “**COVID-19 Sero Survey Mobile Application**” developed in-house by Department of IT Electronics & Communication and HARSAC in consultation with the State IDSP Cell. Civil Surgeons of the districts along with their teams attended the 'LAUNCH' through Video Conference.



GANTT CHART (ORIGINAL PLAN)

	OCTOBER			
	1 st Week	2 nd Week	3 rd Week	4 th Week
Protocol Approvals	✓			
Team formations and Trainings	✓	Launch of 2 nd Round of Sero Survey on 15 th October, 2020		
Logistics Equipment and Materials		✓		
Sero Survey in all 22 Districts			19-20 October Field Activities 21-22, Processing of Samples	
Report Submission				Release of Report

QUALITY ASSURANCE

Quality assurance was an important feature of this mammoth survey. Five systems were implemented for this:

1. In the mobile based survey tool, a question was introduced towards the end that forced the doctor in the survey tool to check the collected data for completeness and correctness before saving the forming.
2. There was one supervisor for two teams. They were supposed to visit atleast 10% of the survey houses, that means 1-2 houses per quadrant in rural clusters and double of that in the urban clusters. They were supposed to fill the supervisory forms using the mobile app and they were supposed to capture the GPS location of the visit.
3. Supervisors from the state head quarter or nominated by them from various medical colleges were also supposed to record the entries on the mobile app.
4. As data was being captured in real time, the team under lead of PI, made monitoring and evaluation calls to the medical officers and the families to first mentor the team and secondly cross check if the family has been visited and if consent was taken and the experience with the blood sampling.

SERO-TESTING RESULTS

Table No. 1. Composition of 2nd Round Sero-Survey in Haryana

Total Districts Covered:	22
Total No. of Participants Covered:	16512
Total No. of Blood Samples Taken:	16512
Total No. of Blood Samples Tested:	16477
Total No. of Positive Samples:	2432 (14.8%)
Total No. of Negative Samples:	14022 (85.1%)
Total No. of Inconclusive Samples:	23 (0.1%)

Table 2: Comparison of Sero Survey during 1st and 2nd Round

Test Results	Percentage in 2 nd Round	Percentage in 1 st Round
Negative	84.9%	91.7%
Positive	14.8%	8.0%
Indeterminate	0.1%	0.1%
Sample Rejected	0.2%	0%
Reported Blank	0%	0.2%
Total samples collected	100%	100%

Out of the 16512 samples collected, 35 were rejected leaving 16477 to be tested. Results of 23 samples were indeterminate, 2432 (14.8%) were positive and rest all were negative. This is higher than the sero-positivity rate found in round 1 (8.0%).

Table No. 3. District & Area Wise Composition of Participants in Haryana (N=16512)

District	Rural	Urban	Total
Ambala	435 (60%)	288 (40%)	723
Bhiwani	443 (61%)	288 (39%)	731
Charki Dadri	453 (60%)	296 (40%)	749
Faridabad	489 (61%)	315 (39%)	804
Fatehabad	453 (60%)	303 (40%)	756
Gurugram	480 (60%)	320 (40%)	800
Hisar	433 (60%)	291 (40%)	724
Jhajjar	465 (58%)	338 (42%)	803
Jind	466 (61%)	292 (39%)	758
Kaithal	431 (60%)	290 (40%)	721
Karnal	445 (59%)	304 (41%)	749
Kurukshetra	455 (60%)	307 (40%)	762
Mahendragarh	455 (61%)	293 (39%)	748
Nuh	434 (60%)	293 (40%)	727
Palwal	435 (60%)	294 (40%)	729
Panchkula	433 (58%)	311 (42%)	744
Panipat	437 (60%)	291 (40%)	728
Rewari	434 (60%)	289 (40%)	723
Rohtak	456 (60%)	307 (40%)	763
Sirsa	452 (59%)	308 (41%)	760
Sonipat	468 (62%)	288 (38%)	756
Yamunanagar	433 (57%)	321 (43%)	754
Haryana	9885 (60%)	6627 (40%)	16512

Table No. 4. Age Group Wise Distribution of Participants in Haryana

Age Group	No. of Participants	Percentage of Participants
18-27 Years	2402	14.5%
28-37 Years	4033	24.4%
38-47 Years	3390	20.5%
48-57 Years	2722	16.5%
58-67 Years	2579	15.6%
68-77 Years	1097	6.6%
78-87 Years	252	1.5%
88-97 Years	35	0.2%
98-107 Years	2	0.0%
Total	16512	100.0%

Figure No. 1. Age Wise Distribution of Participants in Haryana

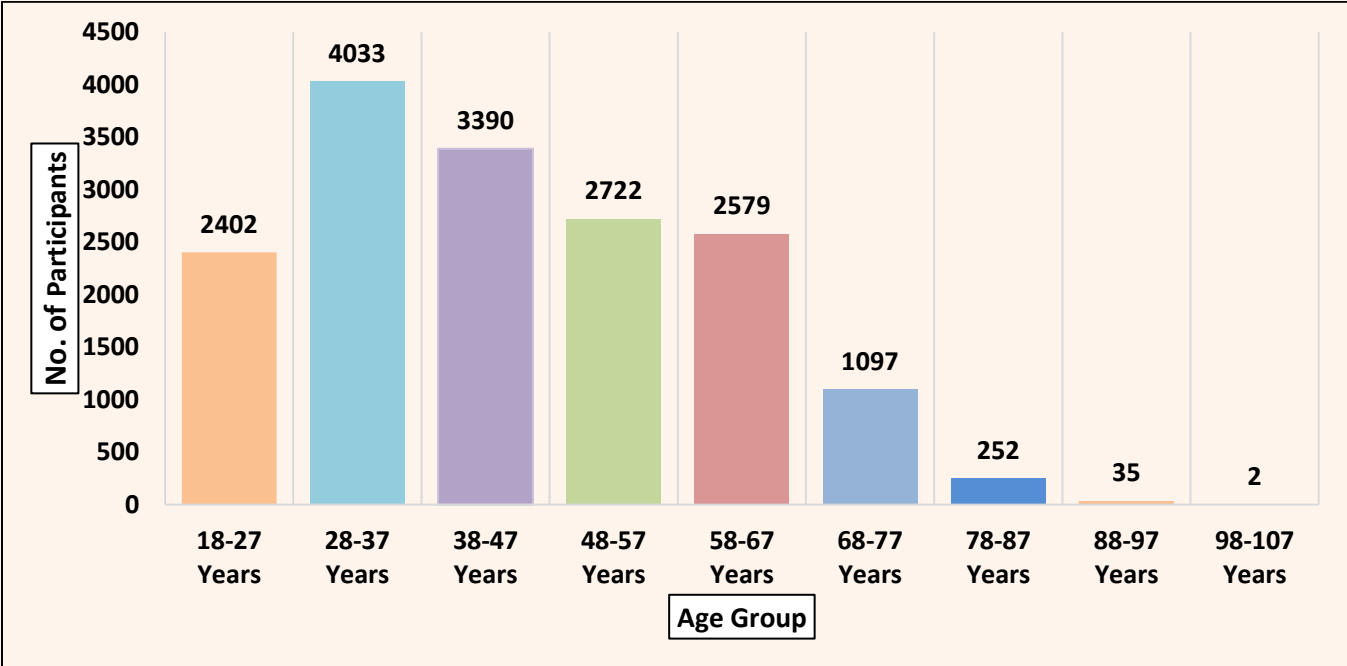


Figure No. 2. Gender Wise Distribution of Participants in Haryana (N=16512)

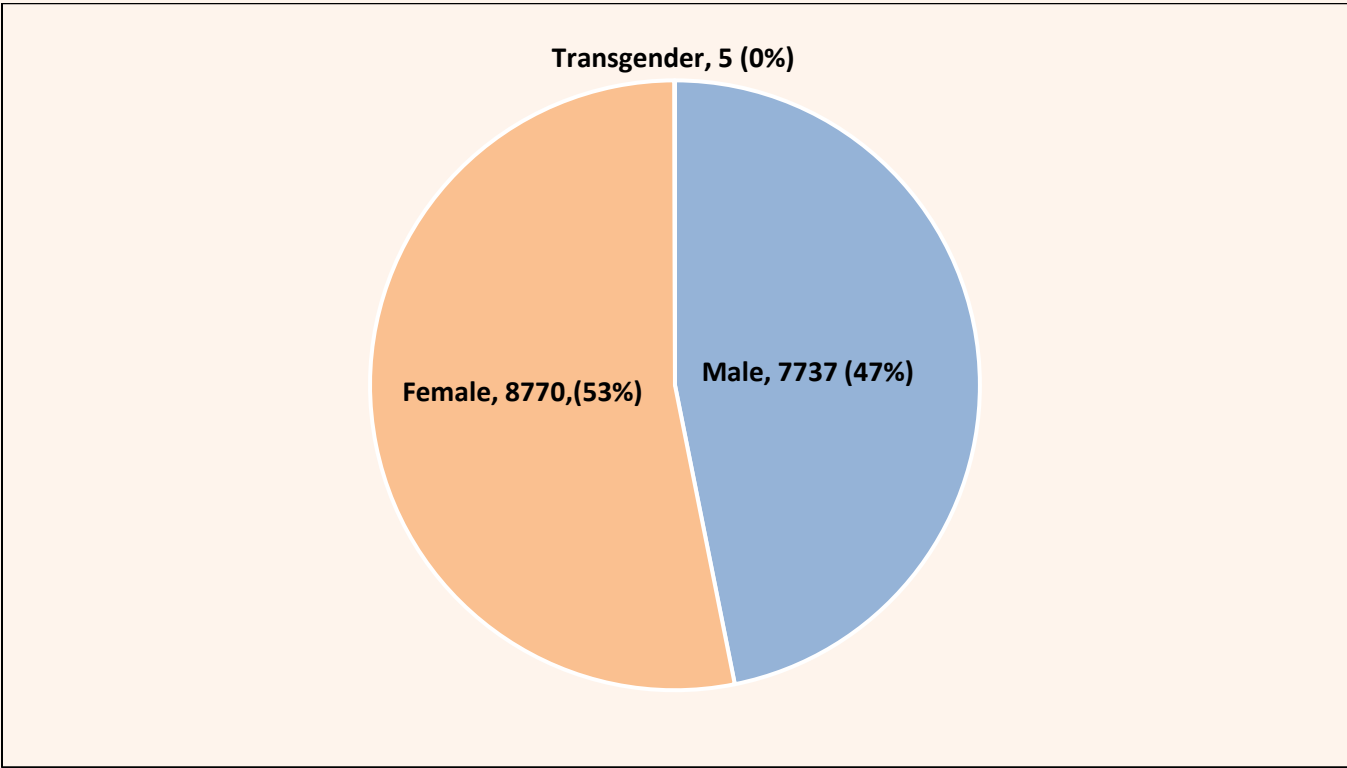


Table No. 5. Gender Wise Distribution of Participants in Districts of Haryana

DISTRICT	FEMALE	MALE	TRANSGENDER	TOTAL
Ambala	385 (53%)	338 (47%)	0 (0%)	723
Bhiwani	315 (43%)	416 (57%)	0 (0%)	731
Charki Dadri	343 (46%)	406 (54%)	0 (0%)	749
Faridabad	460 (57%)	344 (43%)	0 (0%)	804
Fatehabad	362 (48%)	394 (52%)	0 (0%)	756
Gurugram	487 (61%)	313 (39%)	0 (0%)	800
Hisar	377 (52%)	347 (48%)	0 (0%)	724
Jhajjar	403 (50%)	400 (50%)	0 (0%)	803
Jind	379 (50%)	377 (50%)	2 (0%)	758
Kaithal	388 (54%)	333 (46%)	0 (0%)	721
Karnal	498 (66%)	251 (34%)	0 (0%)	749
Kurukshetra	520 (68%)	242 (32%)	0 (0%)	762
Mahendragarh	329 (44%)	419 (56%)	0 (0%)	748
Nuh	380 (52%)	347 (48%)	0 (0%)	727
Palwal	388 (53%)	341 (47%)	0 (0%)	729
Panchkula	392 (53%)	352 (47%)	0 (0%)	744
Panipat	379 (52%)	348 (48%)	1 (0%)	728
Rewari	368 (51%)	354 (49%)	1 (0%)	723
Rohtak	347 (45%)	415 (54%)	1 (0%)	763
Sirsa	438 (58%)	322 (42%)	0 (0%)	760
Sonipat	414 (55%)	342 (45%)	0 (0%)	756
Yamunanagar	418 (55%)	336 (45%)	0 (0%)	754
Haryana	8770 (53%)	7737 (47%)	5 (0%)	16512

Figure No. 3. Occupation Wise Distribution of Participants in Haryana (N=16512)

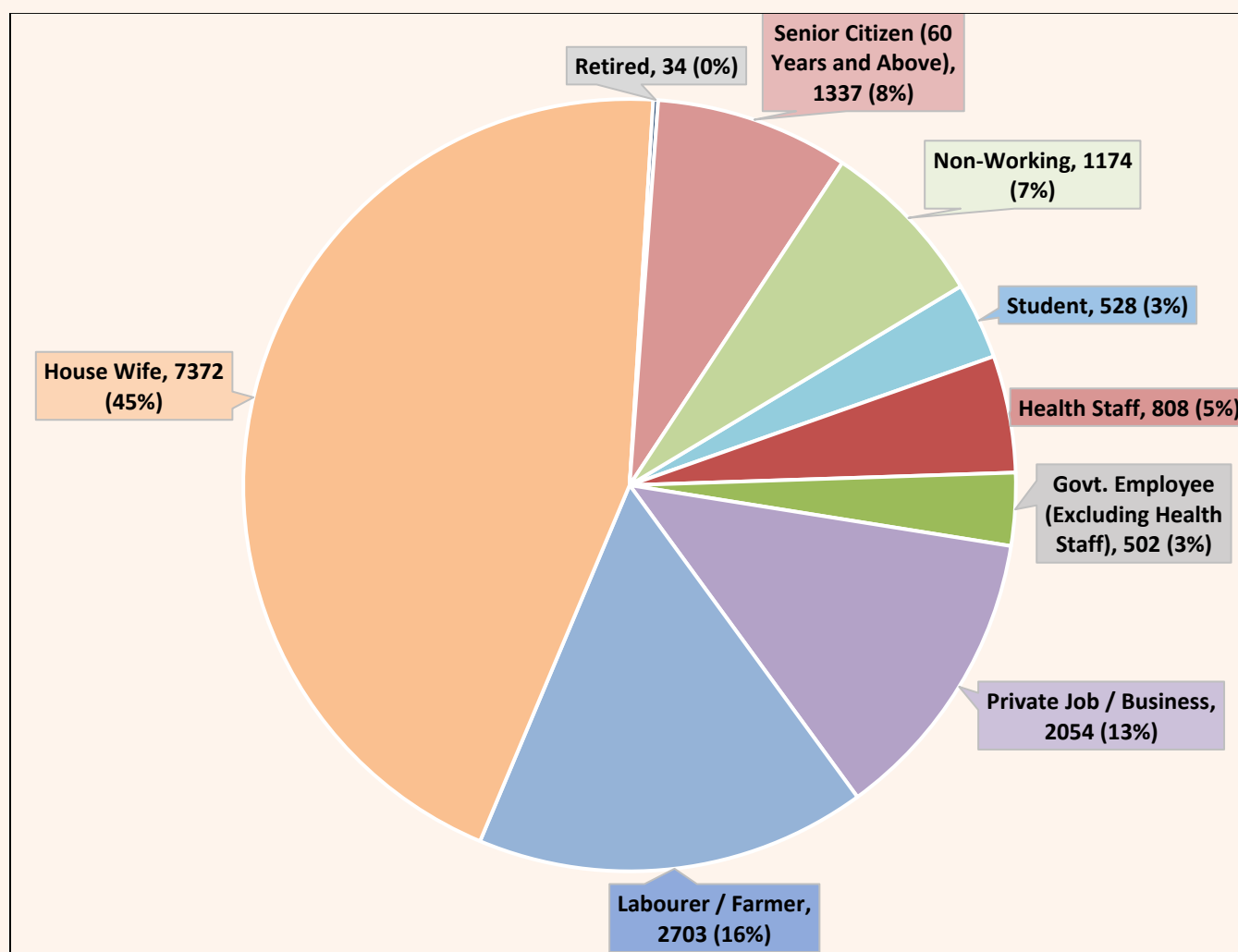


Table No. 6. Distribution of Participants according to History of COVID-19 Testing

Status of COVID-19 Tests	Not Tested for COVID-19	TYPE OF COVID-19 TEST DONE				TOTAL
		Not Known	Rapid Antibody Tested	Rapid Antigen Tested	RT-PCR Tested	
RESULT AWAITED	0	3	41	4	4	52
Result Negative	0	19	13	433	409	874
Result Positive	0	0	0	19	67	86
Not Tested for COVID-19	15500	0	0	0	0	15500
Total	15500	22	54	456	480	16512

Figure No. 4. Distribution of Participants in Haryana according to Presence of Morbidity

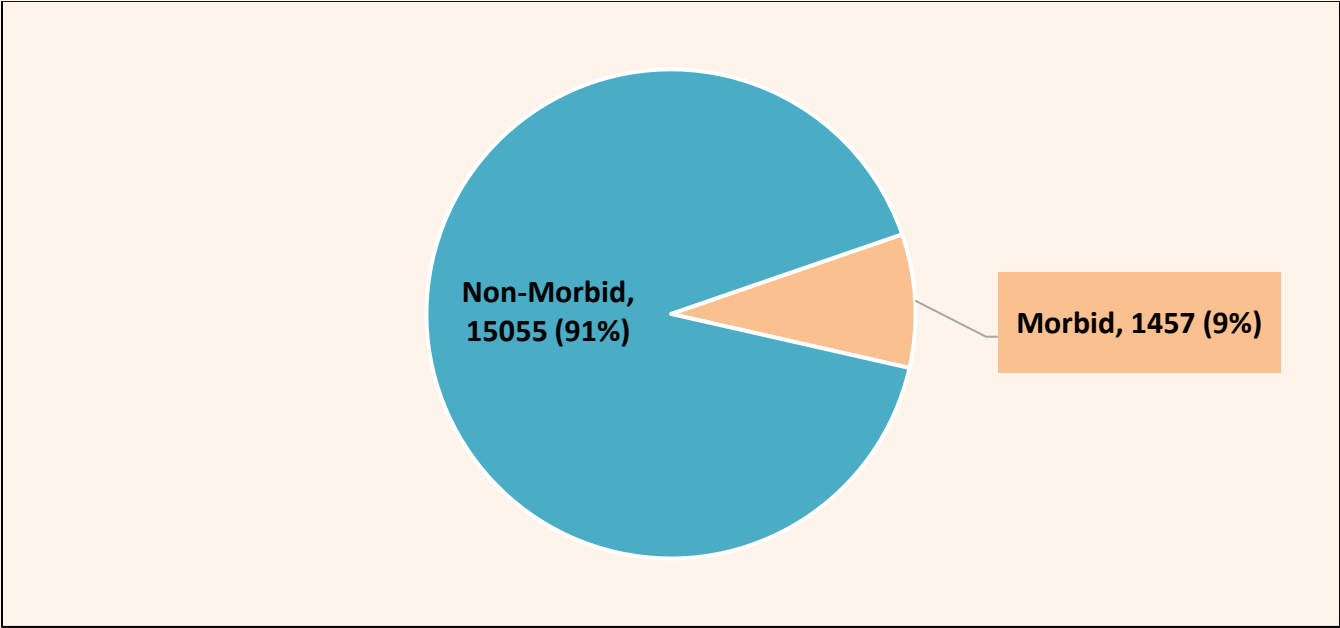


Figure No. 5. Distribution of Morbid Participants in Haryana according to Type of Morbidity (N=1457)

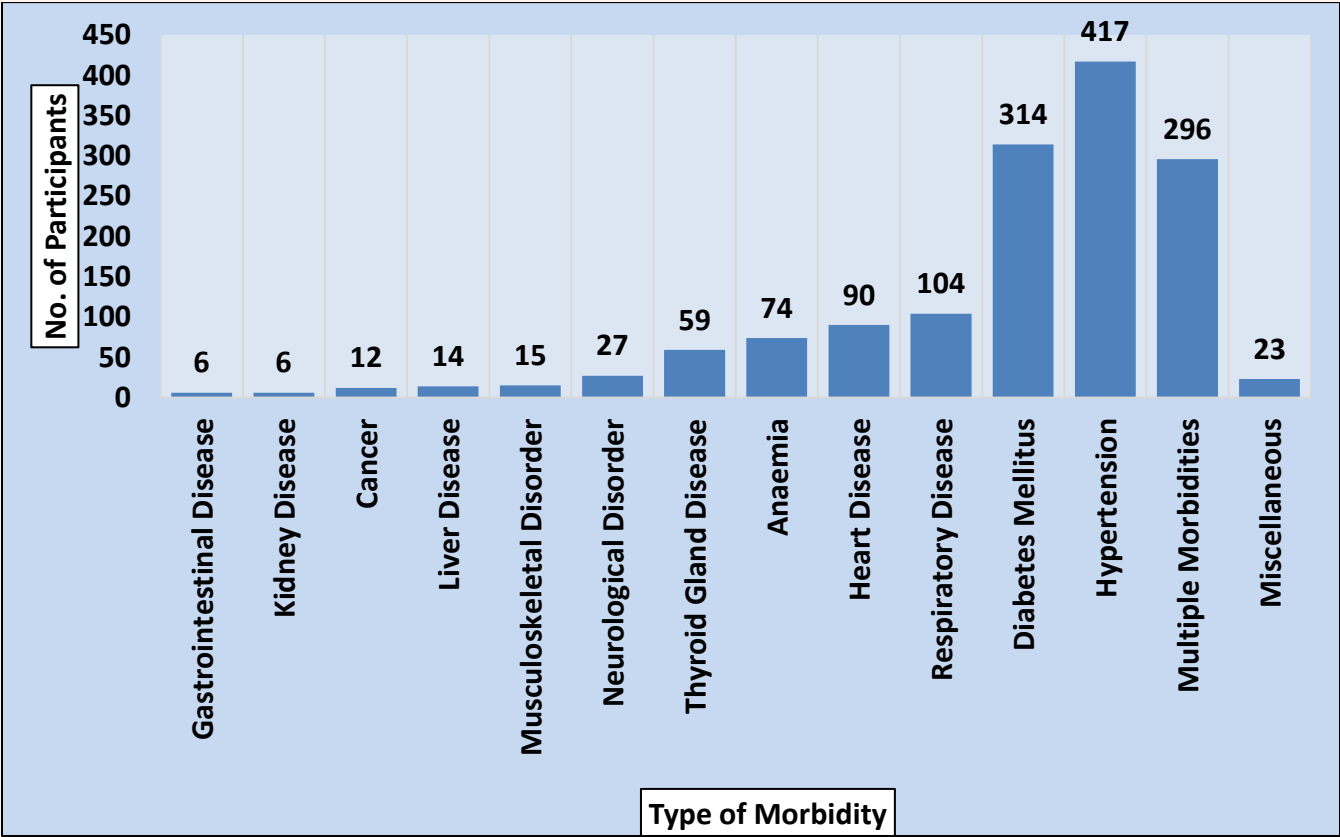


Figure No. 6. Distribution of Participants in Haryana according to History of Symptoms in Last 60 Days (N=16512)

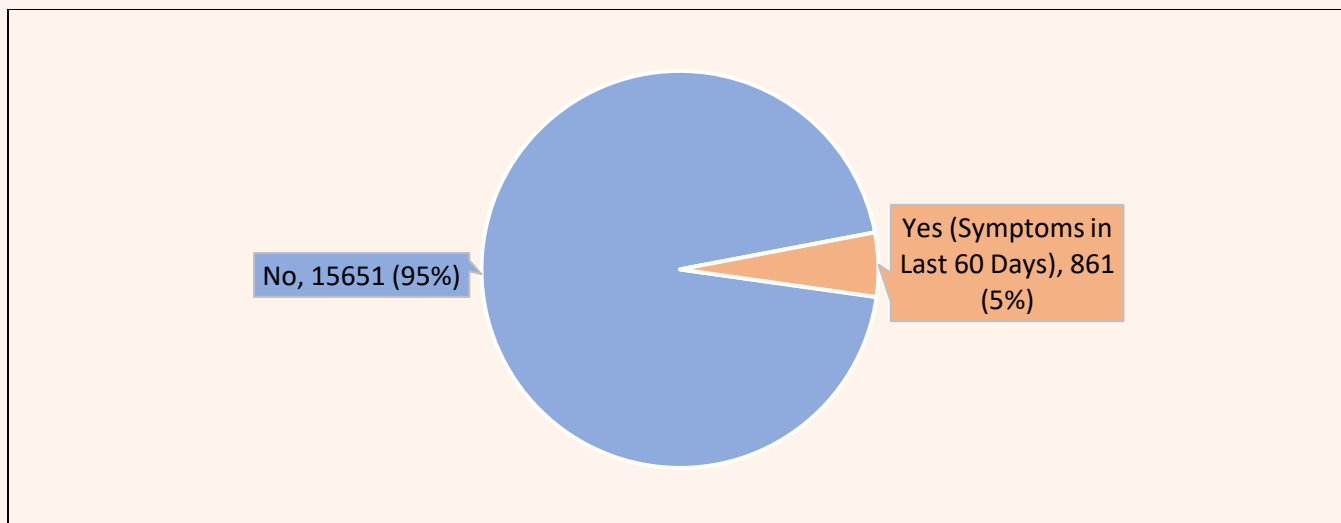


Figure No. 7. District Wise Distribution of Participants according to History of Symptoms in Last 60 Days (N=16512, Participants of Haryana having History of Symptoms=861, %age of Participants of Haryana having History of Symptoms = 5%, No=15661)

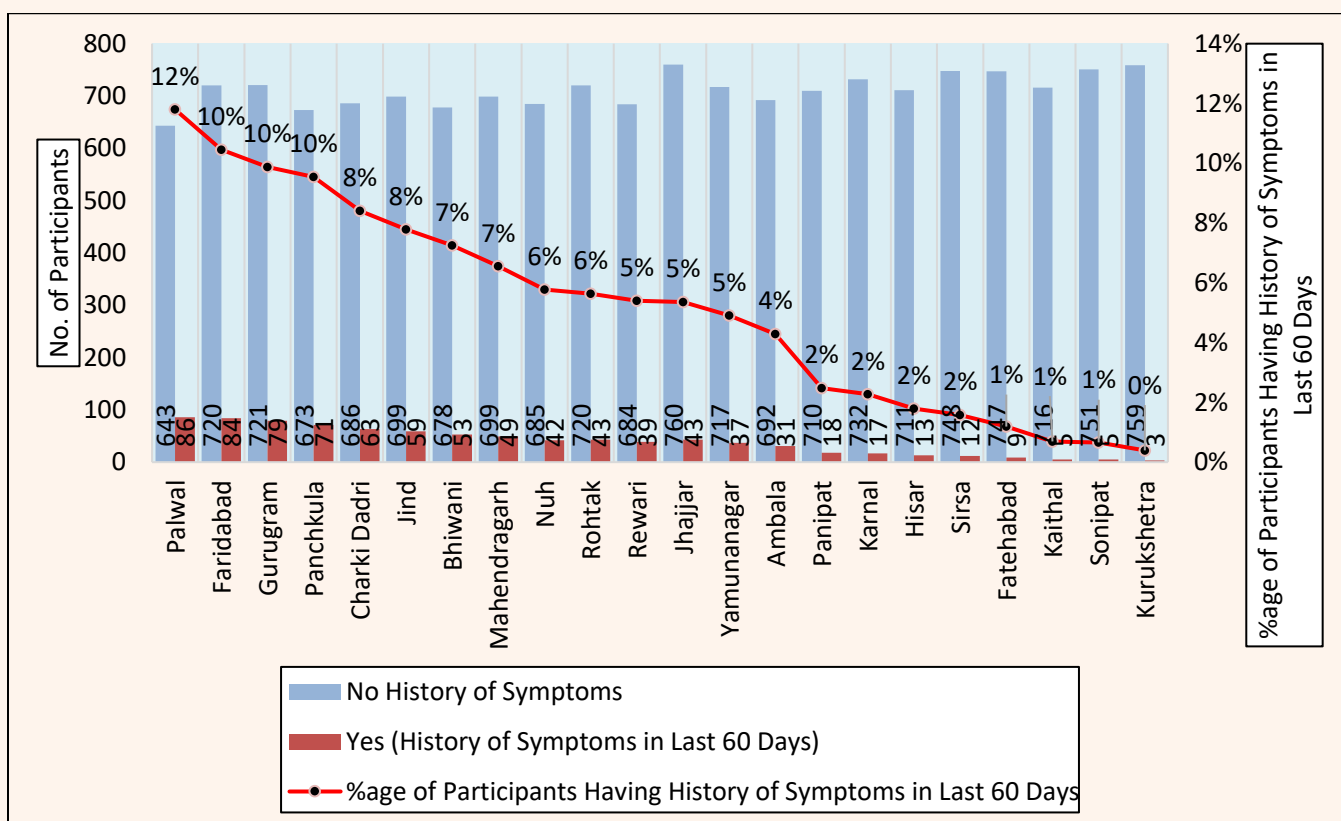


Figure No. 8. Distribution of Participants in Haryana according to Practice of Wearing Mask (N=16512)

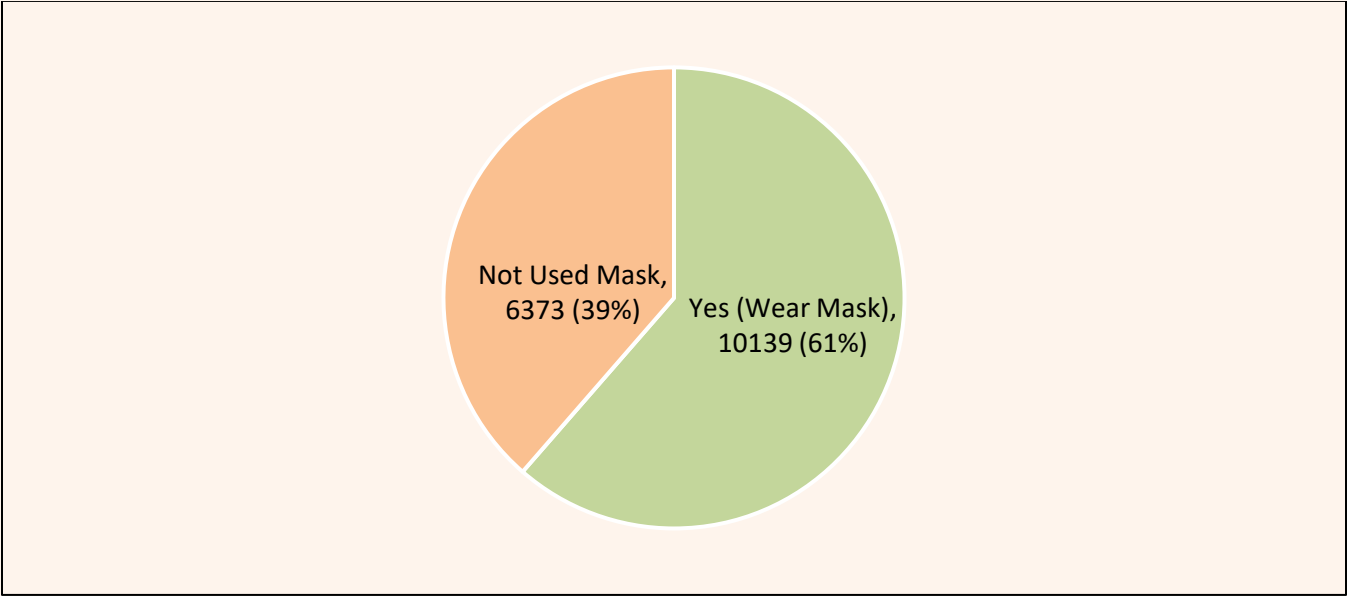
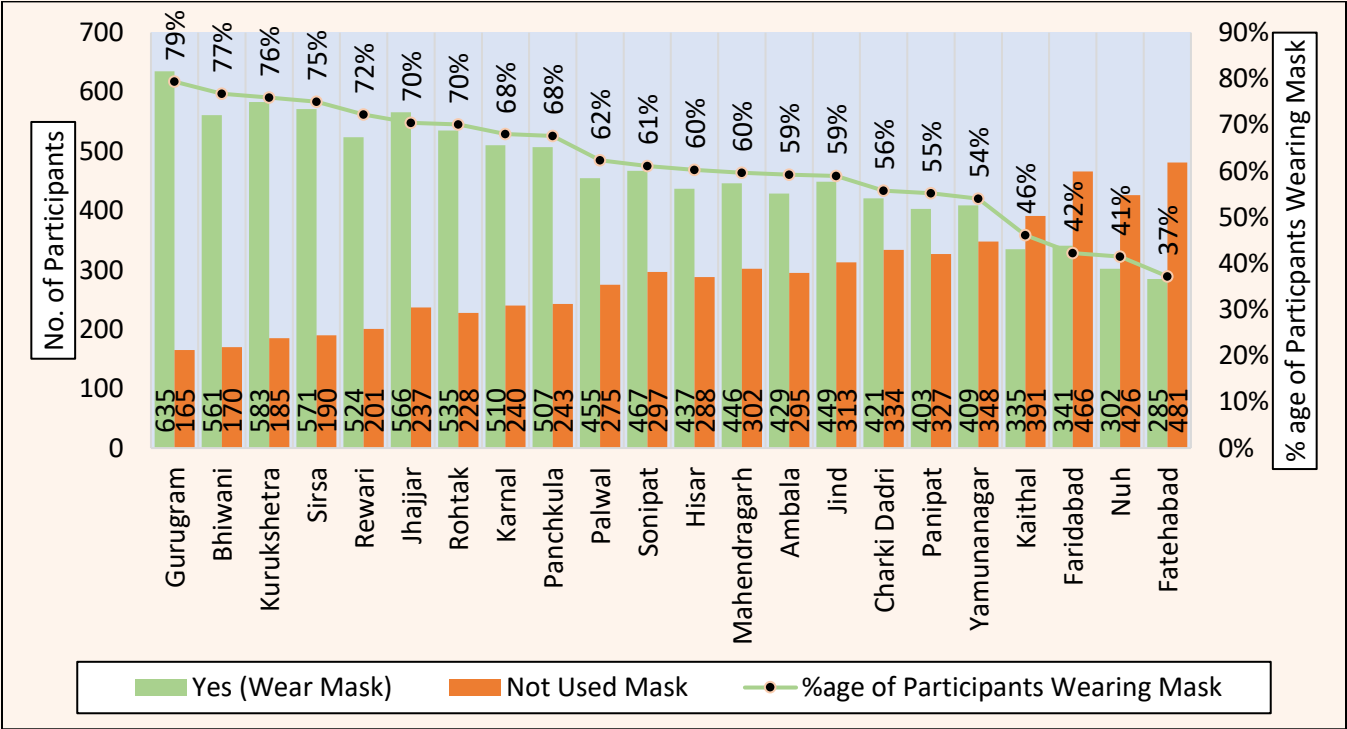
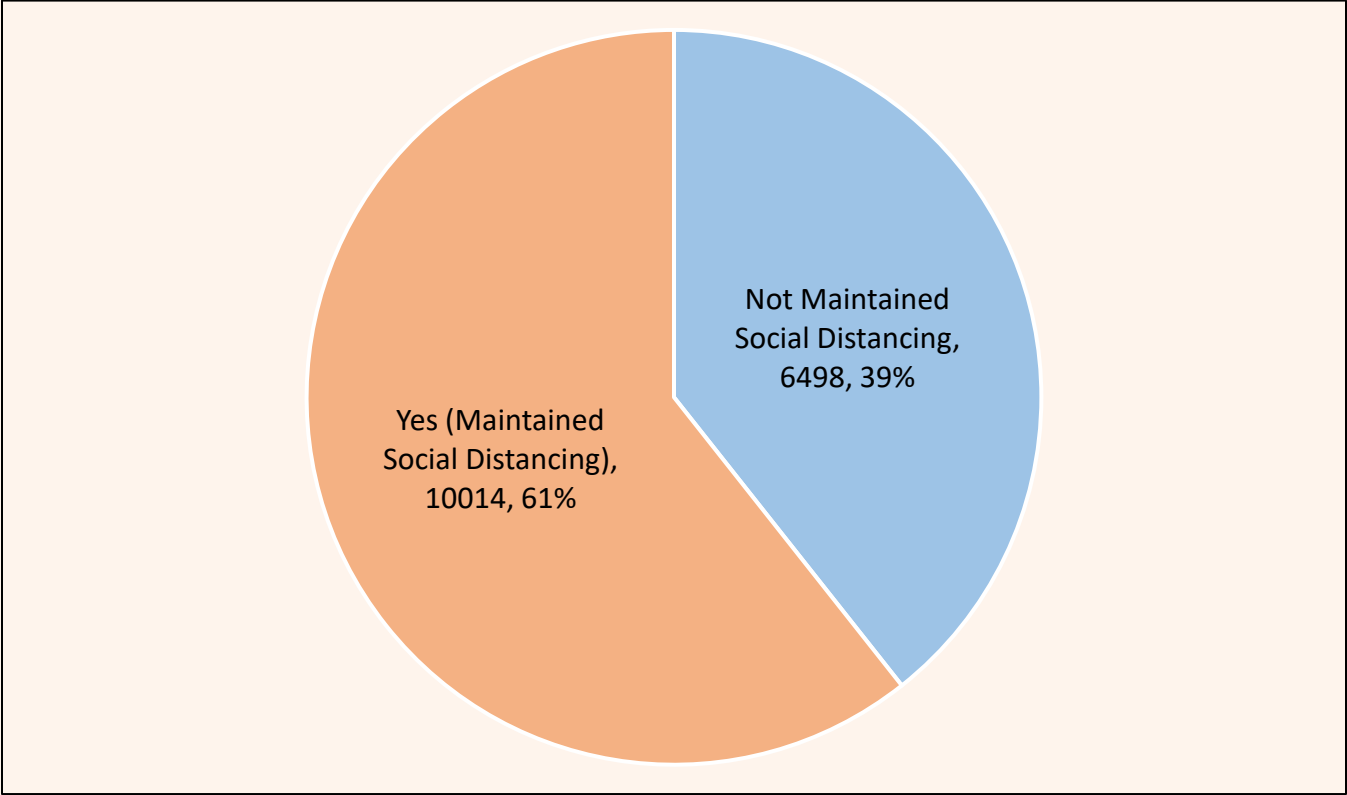


Figure No. 9. District Wise Distribution of Participants according to Practice of Wearing Mask (N=16512, Mask Wearing Participants=10139, %age of Mask Wearing Participants in Haryana= 61%, No=6373)



In Haryana, 61% participants wear mask during outing or visits of outsiders to the house. In the districts Gurugram, Bhiwani, Kurukshetra, Sirsa, Rewari, Jhajjar majority of participants used mask when go outside house or during visits of outsiders, however, in Yamunanagar, Kaithal, Faridabad, Nuh, and Fatehabad districts comparatively lower numbers of participants used masks (Figure No. 9).

Figure No. 10. Distribution of Participants according to Practice of Maintaining Social Distancing (N=16512)



In Haryana 61% participants are following social distancing norms, in the districts Bhiwani, Gurugram, Kurukshetra, Sirsa, Rewari, etc. more participants maintained social distancing in comparison to the Faridabad, Nuh and Fatehabad districts during visits outside house (Figure No. 11).

Figure No. 11. District Wise Distribution of Participants according to Social Distance Maintaining (N=16512, No. of Participants of Haryana Maintaining Social Distancing=10014, %age of Participants of Haryana Maintaining Social Distancing = 61%, No=6498)

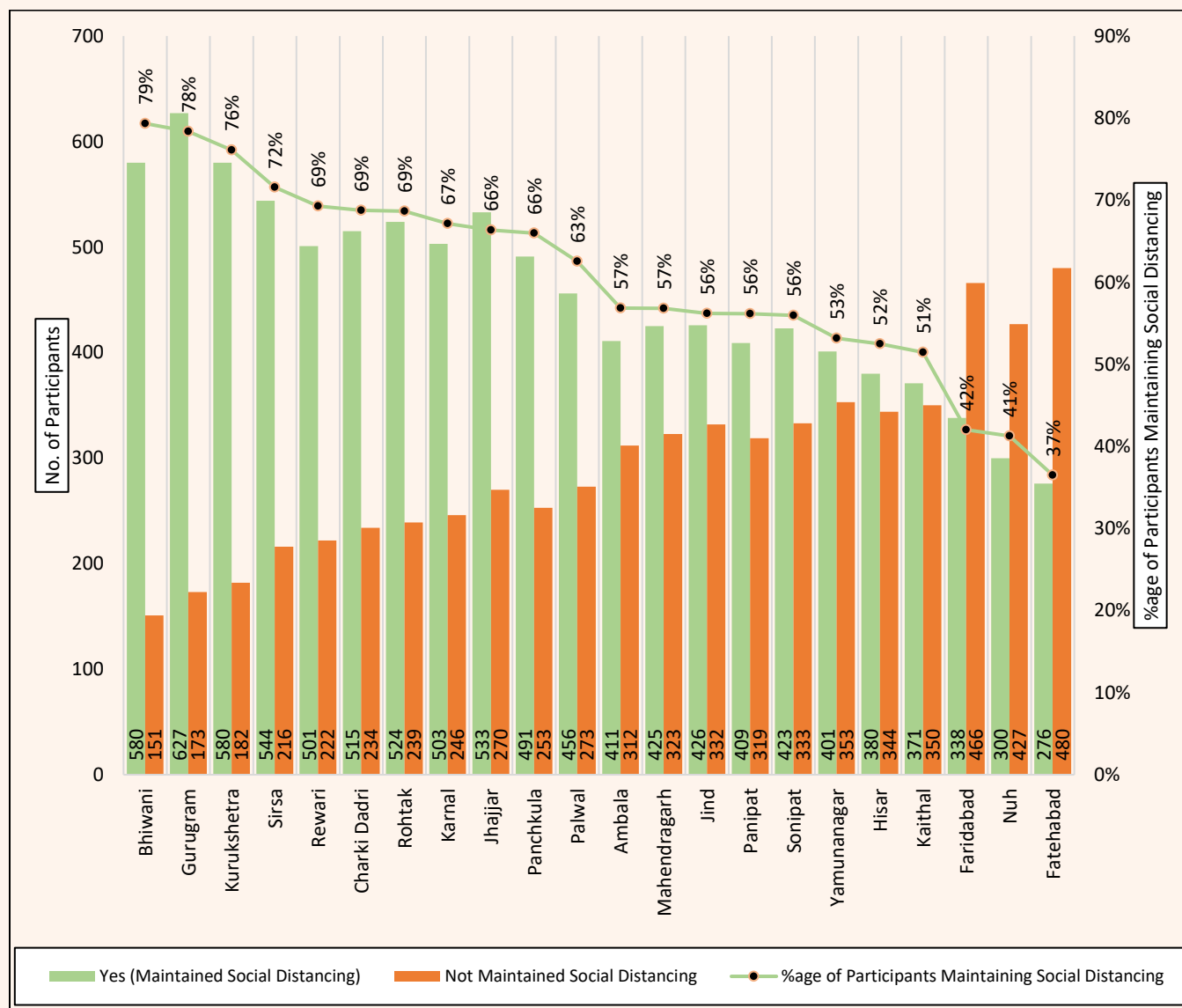


Table No. 7. District Wise Seropositivity in Haryana in 2nd Round (N=16477)

District	Negative	Positive	Inconclusive	Total
Ambala	582 (80.5%)	141 (19.5%)	0 (0%)	723 (19.5%)
Bhiwani	708 (96.9%)	23 (3.1%)	0 (0%)	731 (3.1%)
Charki Dadri	691 (92.3%)	58 (7.7%)	0 (0%)	749 (7.7%)
Faridabad	549 (68.8%)	249 (31.2%)	0 (0%)	798 (31.2%)
Fatehabad	661 (87.8%)	92 (12.2%)	0 (0%)	753 (12.2%)
Gurugram	641 (80.8%)	131 (16.5%)	21 (2.6%)	793 (16.5%)
Hisar	654 (90.3%)	70 (9.7%)	0 (0%)	724 (9.7%)
Jhajjar	692 (87.2%)	102 (12.8%)	0 (0%)	794 (12.8%)
Jind	556 (73.4%)	202 (26.6%)	0 (0%)	758 (26.6%)
Kaithal	638 (88.5%)	81 (11.2%)	2 (0.3%)	721 (11.2%)
Karnal	594 (79.3%)	155 (20.7%)	0 (0%)	749 (20.7%)
Kurukshetra	658 (86.4%)	104 (13.6%)	0 (0%)	762 (13.6%)
Mahendragarh	684 (91.4%)	64 (8.6%)	0 (0%)	748 (8.6%)
Nuh	599 (82.4%)	128 (17.6%)	0 (0%)	727 (17.6%)
Palwal	689 (94.5%)	40 (5.5%)	0 (0%)	729 (5.5%)
Panchkula	657 (88.3%)	87 (11.7%)	0 (0%)	744 (11.7%)
Panipat	559 (77%)	167 (23%)	0 (0%)	726 (23%)
Rewari	649 (89.8%)	74 (10.2%)	0 (0%)	723 (10.2%)
Rohtak	667 (88%)	91 (12%)	0 (0%)	758 (12%)
Sirsa	700 (92.5%)	57 (7.5%)	0 (0%)	757 (7.5%)
Sonipat	656 (86.8%)	100 (13.2%)	0 (0%)	756 (13.2%)
Yamunanagar	538 (71.4%)	216 (28.6%)	0 (0%)	754 (28.6%)
Haryana	14022 (85.1%)	2432 (14.8%)	23 (0.1%)	16477 (14.8%)

Figure No. 12. District Wise Seropositivity in Haryana in 2nd Round (N=16477)

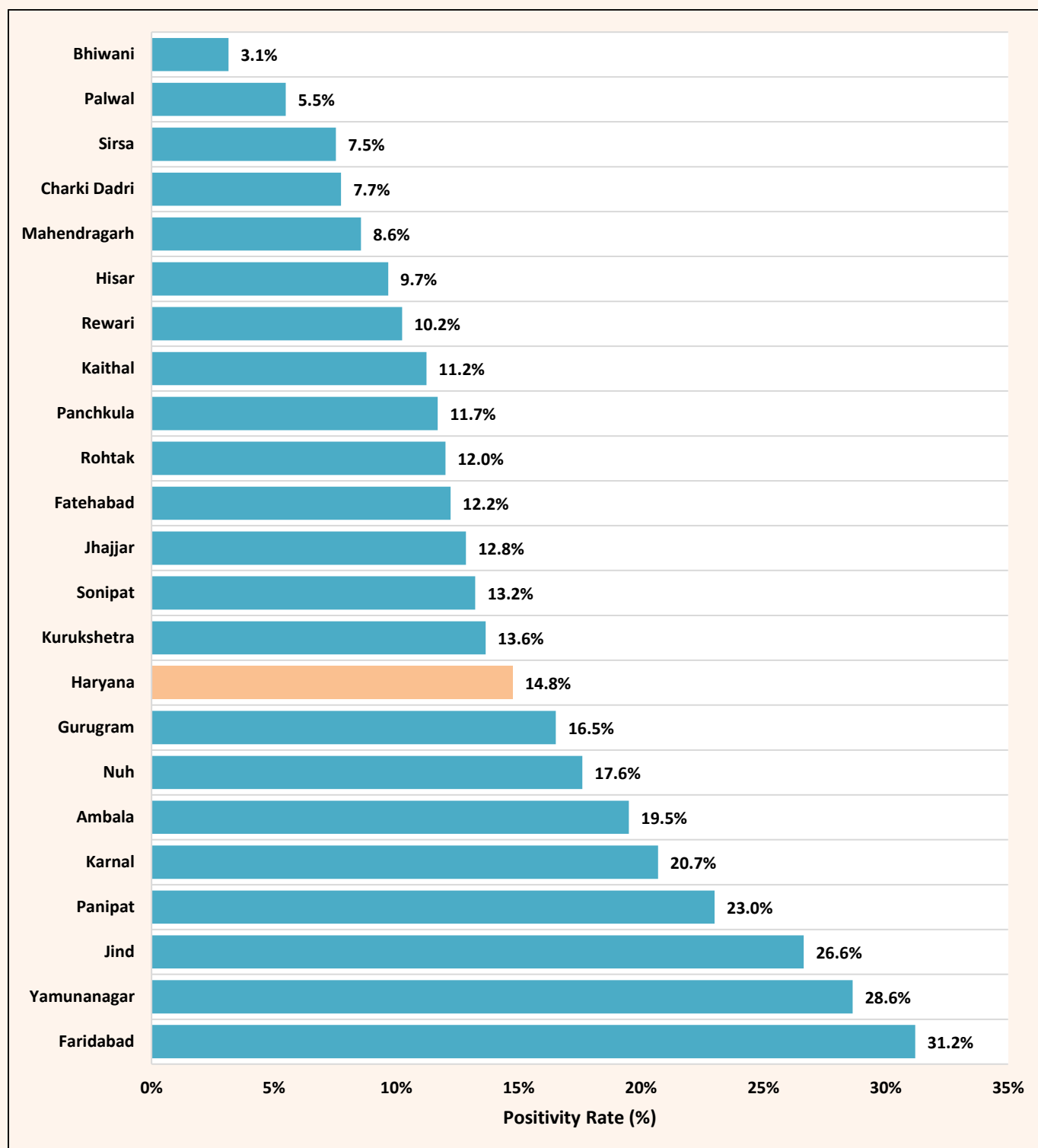


Figure No. 13. District Wise Seropositivity in Haryana in 2nd Round (N=16477)

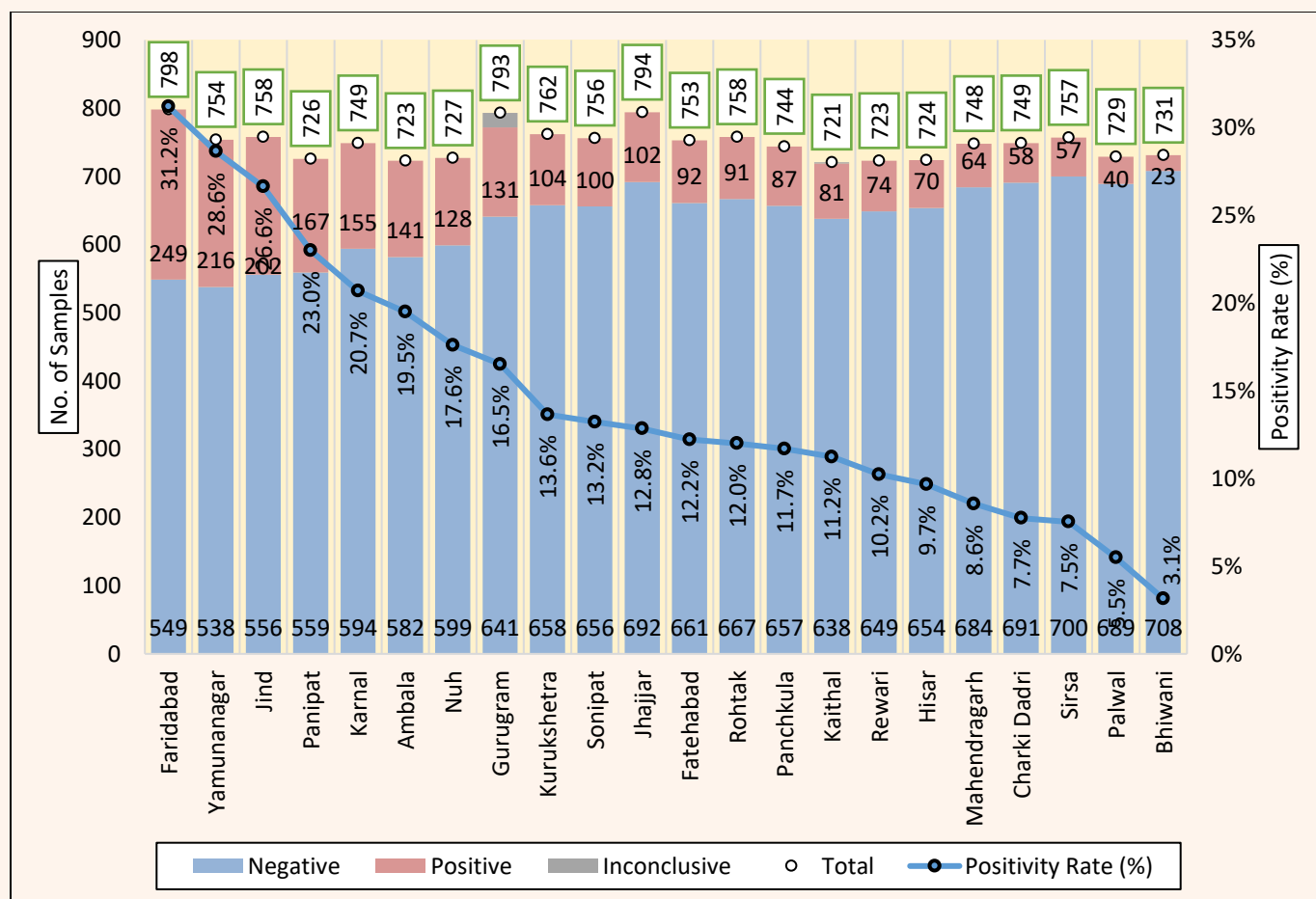


Figure No. 14. Comparison of District Wise Seropositivity in Haryana in 1st and 2nd Round (N=16477)

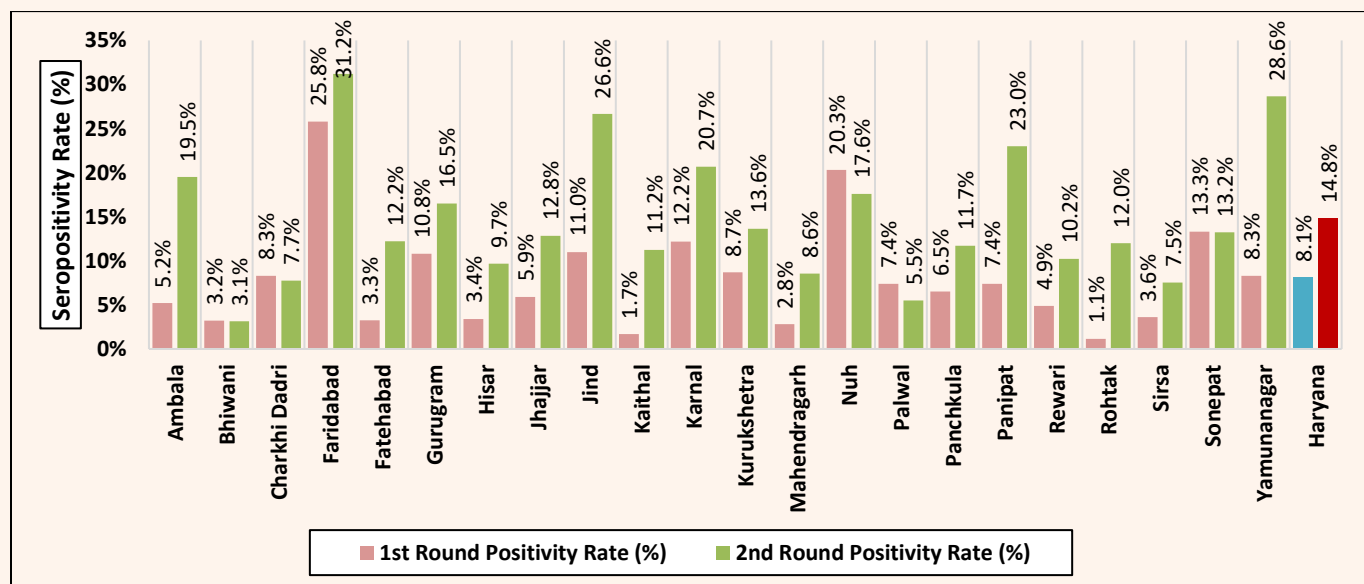


Figure No. 15. Comparison of District Wise Seropositivity in Haryana in 1st and 2nd Round (N=16477)

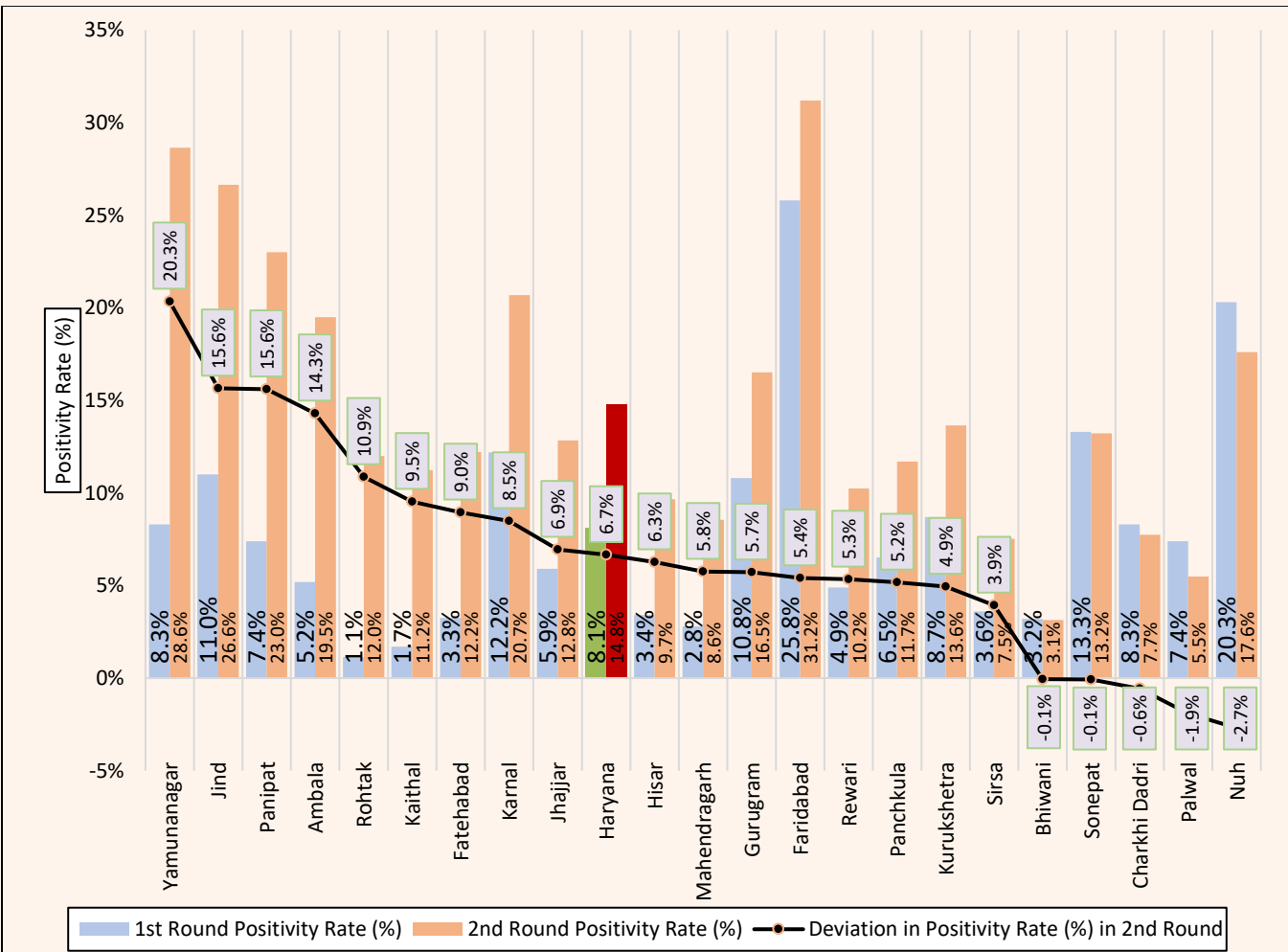


Figure No. 16. Age Group Wise Seropositivity in Haryana in 2nd Round (N=16477)

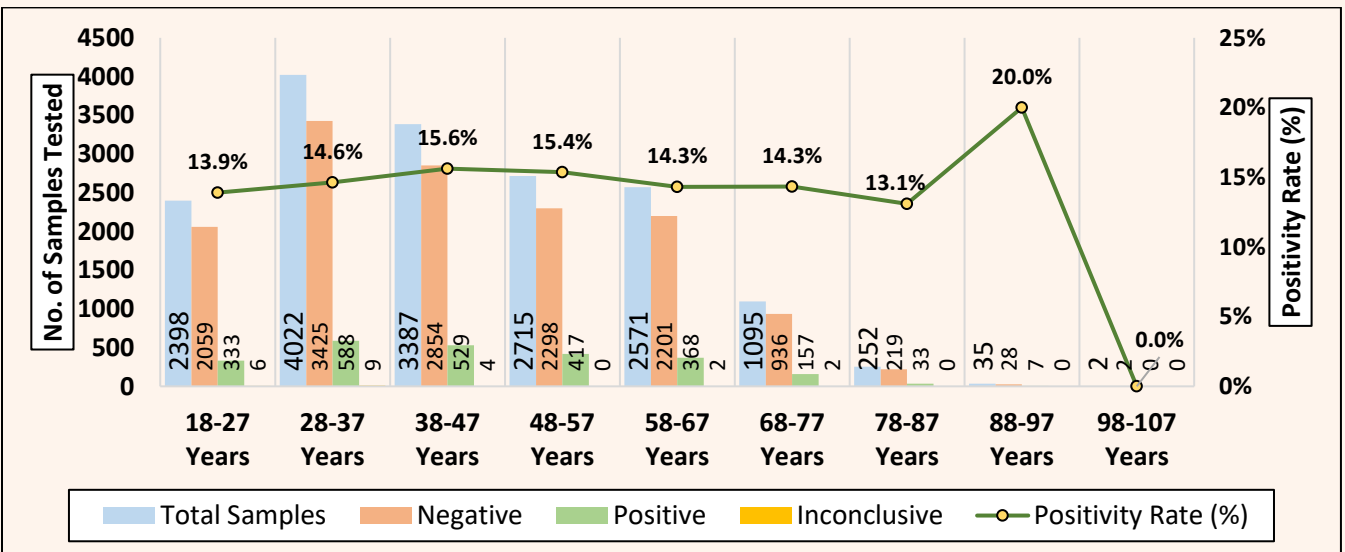


Table No. 8. Gender Wise Seropositivity in Districts of Haryana in 2nd Round (N=16477)

District	Female				Male				Transgender		Total
	Total	Negative	Positive	Inconclusive	TOTAL	Negative	Positive	Inconclusive	Total	Negative	
Ambala	385	308 (80%)	77 (20%)	0 (0%)	338	274 (81.1%)	64 (18.9%)	0 (0%)	0	0 (0%)	723
Bhiwani	315	309 (98.1%)	6 (1.9%)	0 (0%)	416	399 (95.9%)	17 (4.1%)	0 (0%)	0	0 (0%)	731
Charki Dadri	343	323 (94.2%)	20 (5.8%)	0 (0%)	406	368 (90.6%)	38 (9.4%)	0 (0%)	0	0 (0%)	749
Faridabad	456	315 (69.1%)	141 (30.9%)	0 (0%)	342	234 (68.4%)	108 (31.6%)	0 (0%)	0	0 (0%)	798
Fatehabad	361	313 (86.7%)	48 (13.3%)	0 (0%)	392	348 (88.8%)	44 (11.2%)	0 (0%)	0	0 (0%)	753
Gurugram	483	395 (81.8%)	73 (15.1%)	15 (3.1%)	310	246 (79.4%)	58 (18.7%)	6 (1.9%)	0	0 (0%)	793
Hisar	377	344 (91.2%)	33 (8.8%)	0 (0%)	347	310 (89.3%)	37 (10.7%)	0 (0%)	0	0 (0%)	724
Jhajjar	399	345 (86.5%)	54 (13.5%)	0 (0%)	395	347 (87.8%)	48 (12.2%)	0 (0%)	0	0 (0%)	794
Jind	379	285 (75.2%)	94 (24.8%)	0 (0%)	377	269 (71.4%)	108 (28.6%)	0 (0%)	2	2 (100%)	758
Kaithal	388	345 (88.9%)	43 (11.1%)	0 (0%)	333	293 (88%)	38 (11.4%)	2 (0.6%)	0	0 (0%)	721
Karnal	498	393 (78.9%)	105 (21.1%)	0 (0%)	251	201 (80.1%)	50 (19.9%)	0 (0%)	0	0 (0%)	749
Kurukshetra	520	443 (85.2%)	77 (14.8%)	0 (0%)	242	215 (88.8%)	27 (11.2%)	0 (0%)	0	0 (0%)	762
Mahendragarh	329	304 (92.4%)	25 (7.6%)	0 (0%)	419	380 (90.7%)	39 (9.3%)	0 (0%)	0	0 (0%)	748
Nuh	380	315 (82.9%)	65 (17.1%)	0 (0%)	347	284 (81.8%)	63 (18.2%)	0 (0%)	0	0 (0%)	727
Palwal	388	369 (95.1%)	19 (4.9%)	0 (0%)	341	320 (93.8%)	21 (6.2%)	0 (0%)	0	0 (0%)	729
Panchkula	392	349 (89%)	43 (11%)	0 (0%)	352	308 (87.5%)	44 (12.5%)	0 (0%)	0	0 (0%)	744
Panipat	377	297 (78.8%)	80 (21.2%)	0 (0%)	348	261 (75%)	87 (25%)	0 (0%)	1	1 (100%)	726

Rewari	368	328 (89.1%)	40 (10.9%)	0 (0%)	354	320 (90.4%)	34 (9.6%)	0 (0%)	1	1 (100%)	723
Rohtak	343	303 (88.3%)	40 (11.7%)	0 (0%)	414	363 (87.7%)	51 (12.3%)	0 (0%)	1	1 (100%)	758
Sirsa	436	404 (92.7%)	32 (7.3%)	0 (0%)	321	296 (92.2%)	25 (7.8%)	0 (0%)	0	0 (0%)	757
Sonipat	414	357 (86.2%)	57 (13.8%)	0 (0%)	342	299 (87.4%)	43 (12.6%)	0 (0%)	0	0 (0%)	756
Yamunanagar	418	296 (70.8%)	122 (29.2%)	0 (0%)	336	242 (72%)	94 (28%)	0 (0%)	0	0 (0%)	754
Haryana	8749	7440 (85%)	1294 (14.8%)	15 (0.2%)	7723	6577 (85.2%)	1138 (14.7%)	8 (0.1%)	5	5 (100%)	16477

Table 8 is showing District-wise and gender-wise sero-positivity rates in the State of Haryana in round 2. Overall sero-positivity was similar in both the genders i.e. 14.7% in males and 14.8% in females. Districts Bhiwani and Palwal were found to have lowest prevalence of sero-positivity in both males and females as well as in total.

Figure No. 17. Gender Wise Comparison of Seropositivity in Haryana in 2nd Round (N=16477)

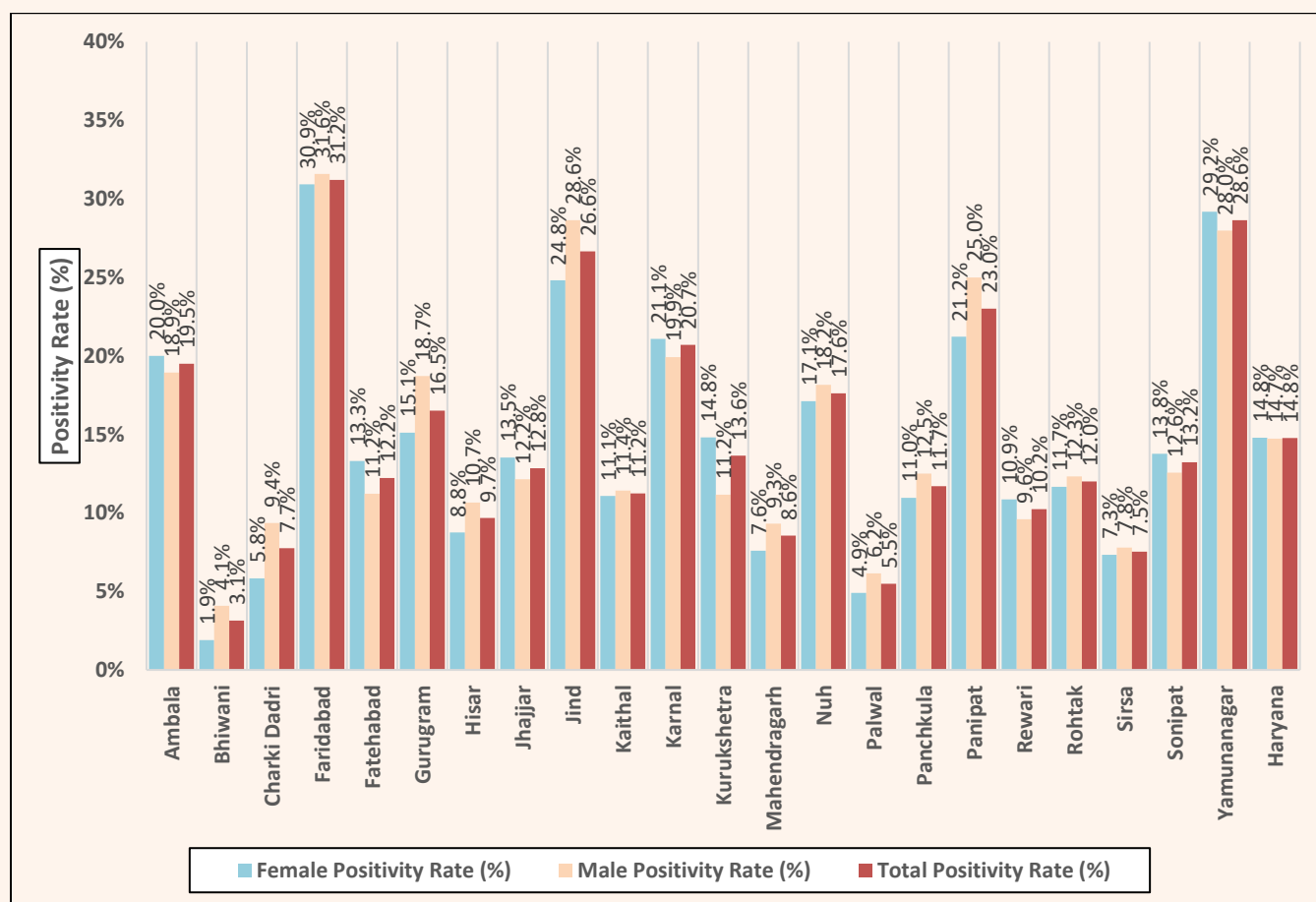


Table No. 9. Comparison of Gender Wise Seropositivity in Districts of Haryana in 1st and 2nd Round

District	Female		Male		Transgender	
	1st Round	2nd Round	1st Round	2nd Round	1st Round	2nd Round
Ambala	5.3%	20.0%	5.2%	18.9%	0.0%	0.0%
Bhiwani	4.2%	1.9%	2.5%	4.1%	0.0%	0.0%
Charkhi Dadri	7.8%	5.8%	8.7%	9.4%	0.0%	0.0%
Faridabad	26.2%	30.9%	25.2%	31.6%	0.0%	0.0%
Fatehabad	3.6%	13.3%	2.9%	11.2%	0.0%	0.0%
Gurugram	13.8%	15.1%	7.3%	18.7%	0.0%	0.0%
Hisar	1.7%	8.8%	5.5%	10.7%	0.0%	0.0%
Jhajjar	7.3%	13.5%	4.9%	12.2%	50.0%	0.0%
Jind	9.4%	24.8%	12.5%	28.6%	0.0%	0.0%
Kaithal	1.4%	11.1%	1.9%	11.4%	0.0%	0.0%
Karnal	12.3%	21.1%	12.1%	19.9%	0.0%	0.0%
Kurukshetra	7.5%	14.8%	10.6%	11.2%	0.0%	0.0%
Mahendragarh	3.6%	7.6%	1.9%	9.3%	0.0%	0.0%
Nuh	18.8%	17.1%	21.4%	18.2%	0.0%	0.0%
Palwal	6.8%	4.9%	8.0%	6.2%	0.0%	0.0%
Panchkula	6.7%	11.0%	6.4%	12.5%	0.0%	0.0%
Panipat	5.5%	21.2%	10.1%	25.0%	0.0%	0.0%
Rewari	4.2%	10.9%	5.5%	9.6%	0.0%	0.0%
Rohtak	0.8%	11.7%	1.6%	12.3%	0.0%	0.0%
Sonepat	14.4%	7.3%	12.1%	7.8%	0.0%	0.0%
Sirsa	3.5%	13.8%	3.6%	12.6%	0.0%	0.0%
Yamunanagar	7.3%	29.2%	9.9%	28.0%	0.0%	0.0%
Haryana	7.9%	14.8%	8.1%	14.7%	5.3%	0.0%

Table No. 9 is showing district-wise and gender-wise seropositivity rates in the State of Haryana in 2nd Round of Sero Survey. Overall Seropositivity was similar in both the genders i.e. **14.7%** in males and **14.8%** in females. District Bhiwani and Palwal were found to have lowest prevalence of Seropositivity in both males and females as well as in total.

Table No. 10. Area Wise Seropositivity in Districts of Haryana in 2nd Round (N=16477)

District	Rural				Urban				Total	
	Total	Inconclusive	Negative	Positive	Total	Inconclusive	Negative	Positive	Total	Positive
Ambala	435	0 (0%)	380 (87.4%)	55 (12.6%)	288	0 (0%)	202 (70.1%)	86 (29.9%)	723	141 (19.5%)
Bhiwani	443	0 (0%)	432 (97.5%)	11 (2.5%)	288	0 (0%)	276 (95.8%)	12 (4.2%)	731	23 (3.1%)
Charki Dadri	453	0 (0%)	425 (93.8%)	28 (6.2%)	296	0 (0%)	266 (89.9%)	30 (10.1%)	749	58 (7.7%)
Faridabad	487	0 (0%)	363 (74.5%)	124 (25.5%)	311	0 (0%)	186 (59.8%)	125 (40.2%)	798	249 (31.2%)
Fatehabad	452	0 (0%)	415 (91.8%)	37 (8.2%)	301	0 (0%)	246 (81.7%)	55 (18.3%)	753	92 (12.2%)
Gurugram	473	13 (2.7%)	412 (87.1%)	48 (10.1%)	320	8 (2.5%)	229 (71.6%)	83 (25.9%)	793	131 (16.5%)
Hisar	433	0 (0%)	400 (92.4%)	33 (7.6%)	291	0 (0%)	254 (87.3%)	37 (12.7%)	724	70 (9.7%)
Jhajjar	459	0 (0%)	434 (94.6%)	25 (5.4%)	335	0 (0%)	258 (77%)	77 (23%)	794	102 (12.8%)
Jind	466	0 (0%)	347 (74.5%)	119 (25.5%)	292	0 (0%)	209 (71.6%)	83 (28.4%)	758	202 (26.6%)
Kaithal	431	2 (0.5%)	389 (90.3%)	40 (9.3%)	290	0 (0%)	249 (85.9%)	41 (14.1%)	721	81 (11.2%)
Karnal	445	0 (0%)	384 (86.3%)	61 (13.7%)	304	0 (0%)	210 (69.1%)	94 (30.9%)	749	155 (20.7%)
Kurukshetra	455	0 (0%)	390 (85.7%)	65 (14.3%)	307	0 (0%)	268 (87.3%)	39 (12.7%)	762	104 (13.6%)
Mahendragarh	455	0 (0%)	422 (92.7%)	33 (7.3%)	293	0 (0%)	262 (89.4%)	31 (10.6%)	748	64 (8.6%)
Nuh	434	0 (0%)	361 (83.2%)	73 (16.8%)	293	0 (0%)	238 (81.2%)	55 (18.8%)	727	128 (17.6%)
Palwal	435	0 (0%)	412 (94.7%)	23 (5.3%)	294	0 (0%)	277 (94.2%)	17 (5.8%)	729	40 (5.5%)
Panchkula	433	0 (0%)	383 (88.5%)	50 (11.5%)	311	0 (0%)	274 (88.1%)	37 (11.9%)	744	87 (11.7%)

Panipat	437	0 (0%)	375 (85.8%)	62 (14.2%)	289	0 (0%)	184 (63.7%)	105 (36.3%)	726	167 (23%)
Rewari	434	0 (0%)	417 (96.1%)	17 (3.9%)	289	0 (0%)	232 (80.3%)	57 (19.7%)	723	74 (10.2%)
Rohtak	451	0 (0%)	408 (90.5%)	43 (9.5%)	307	0 (0%)	259 (84.4%)	48 (15.6%)	758	91 (12%)
Sirsa	449	0 (0%)	420 (93.5%)	29 (6.5%)	308	0 (0%)	280 (90.9%)	28 (9.1%)	757	57 (7.5%)
Sonipat	468	0 (0%)	421 (90%)	47 (10%)	288	0 (0%)	235 (81.6%)	53 (18.4%)	756	100 (13.2%)
Yamunanagar	433	0 (0%)	336 (77.6%)	97 (22.4%)	321	0 (0%)	202 (62.9%)	119 (37.1%)	754	216 (28.6%)
Haryana	9861	15 (0.2%)	8726 (88.5%)	1120 (11.4%)	6616	8 (0.1%)	5296 (80%)	1312 (19.8%)	16477	2432 (14.8%)

Sero-positivity rates as per rural and urban areas are shown in the above table number 10. Overall, it is **11.4%** in rural areas and **19.8%** in urban areas. Rural areas of Districts Faridabad and Jind were found to have highest positivity rate of **25.5%**. Urban areas of Districts Faridabad, Yamunanagar and Panipat had the highest sero-positivity rates i.e. **40.2%**, **37.1%** and **36.3%**, respectively.

Figure No. 18. Area Wise Comparison of Seropositivity in Haryana in 2nd Round (N=16477)

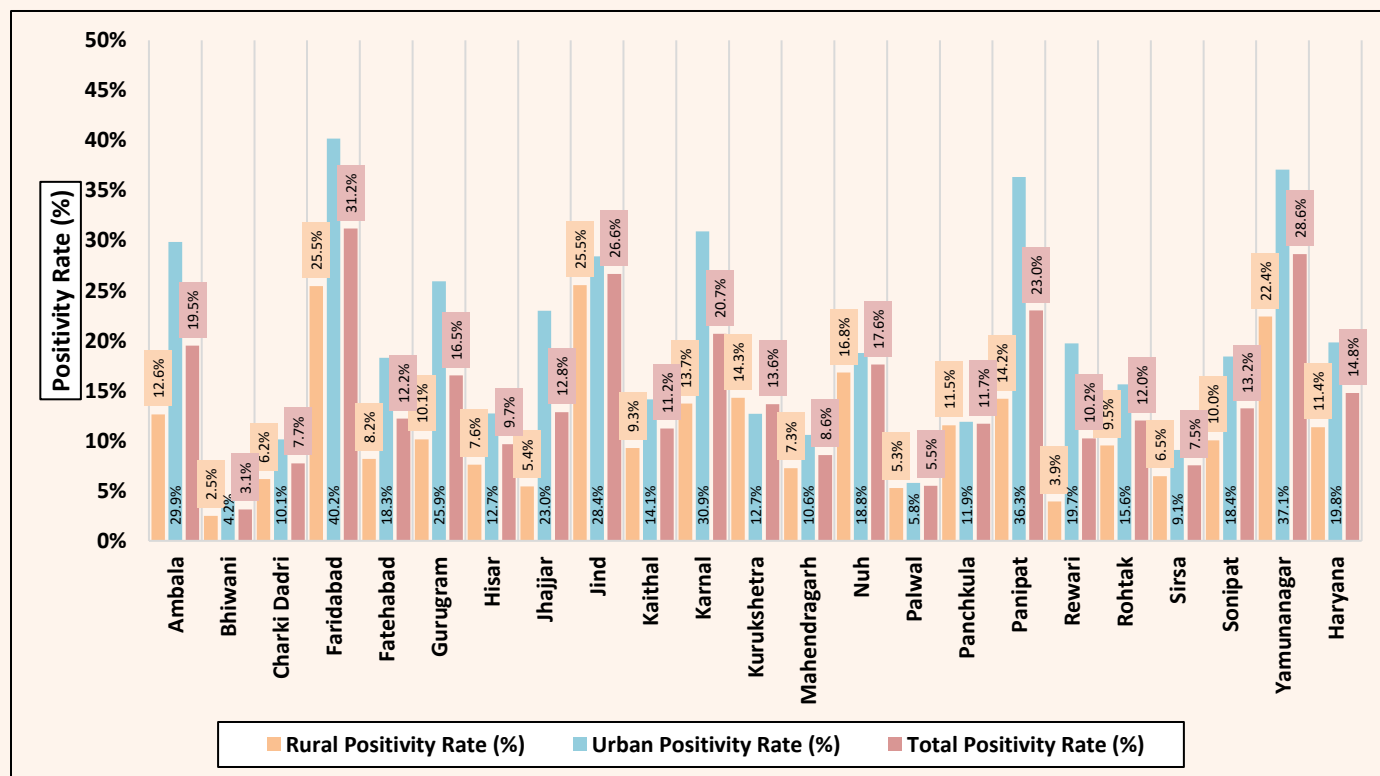


Figure No. 18. Supervision Feedback of Clusters during 2nd Round in Haryana

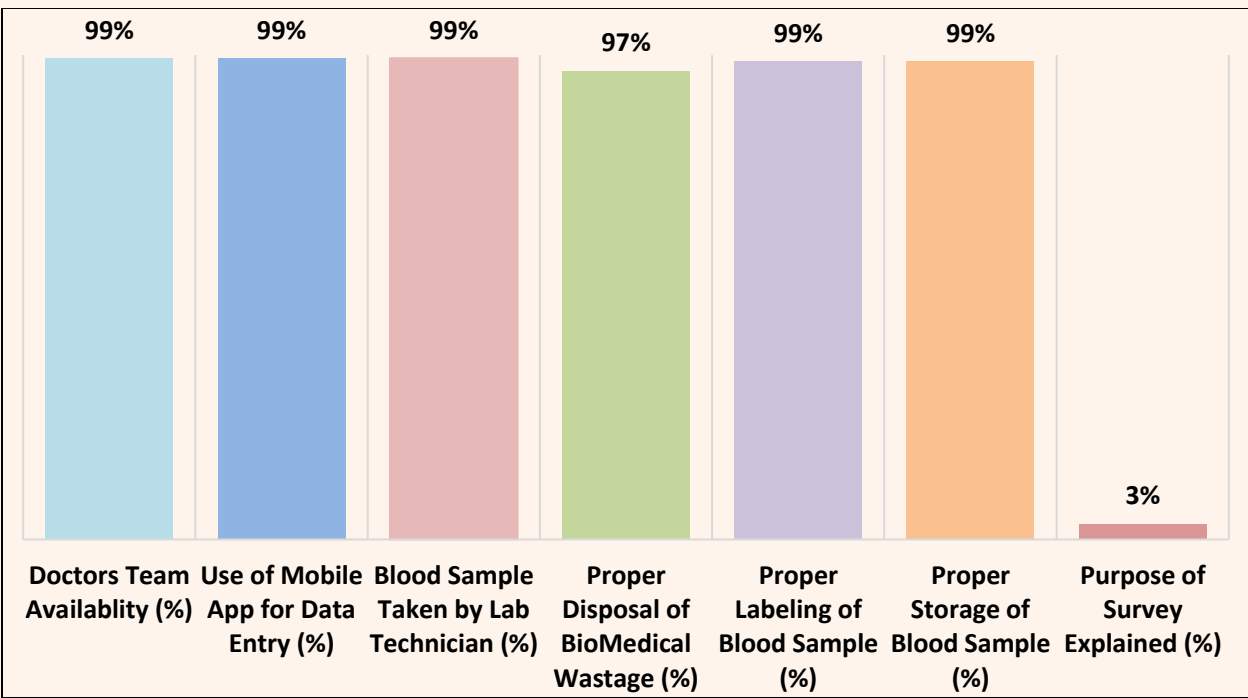


Figure No. 19. Supervision Feedback of ELISA Testing Labs During 2nd Round In Haryana

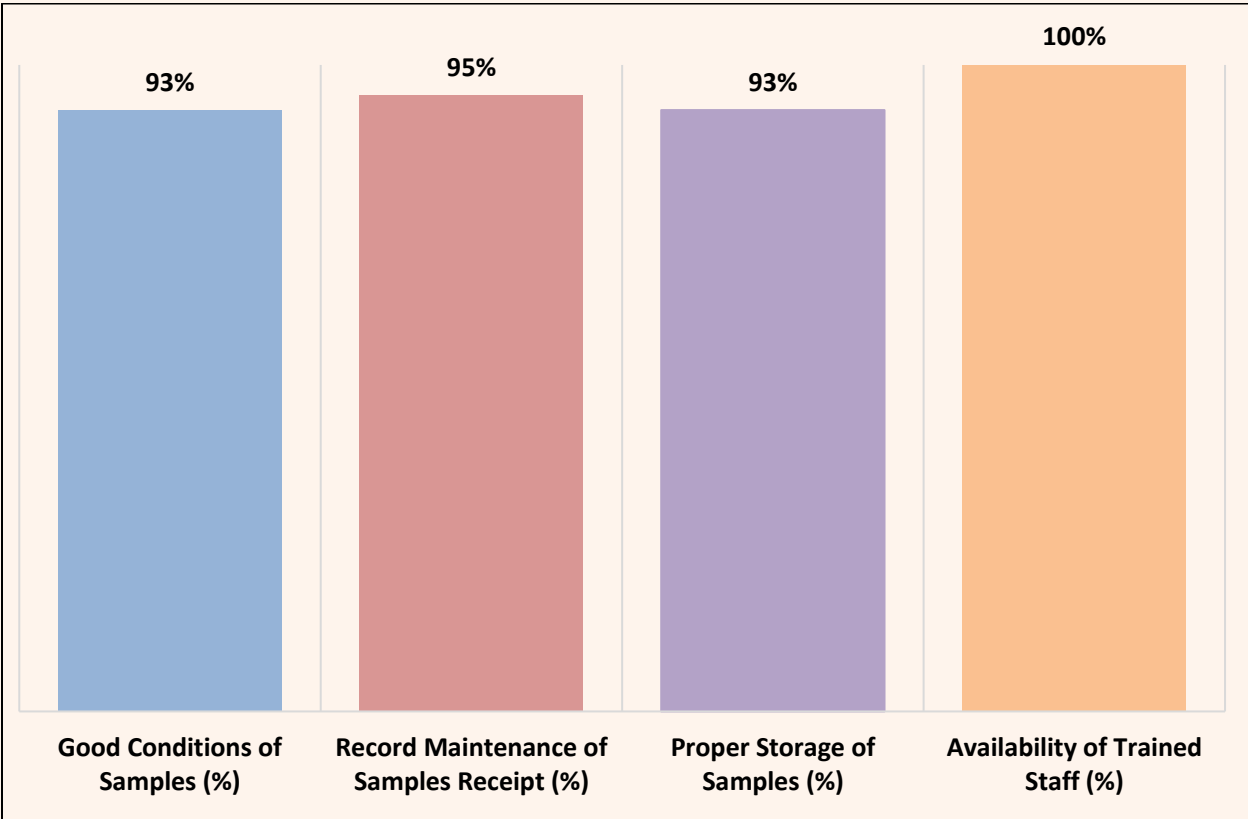


Table No. 11. Comparison of Area Wise Seropositivity in Districts of Haryana in 1st and 2nd Round

District	Rural			Urban		
	1 st Round	2 nd Round	Deviation in Rural Positivity Rate (%) in 2 nd Round	1 st Round	2 nd Round	Deviation in Urban Positivity Rate (%) in 2 nd Round
Ambala	4.4%	12.6%	8.2%	7.1%	29.9%	22.8%
Bhiwani	3.9%	2.5%	-1.4%	2.3%	4.2%	1.9%
Charkhi Dadri	9.3%	6.2%	-3.1%	6.8%	10.1%	3.3%
Faridabad	22.2%	25.5%	3.3%	31.1%	40.2%	9.1%
Fatehabad	3.0%	8.2%	5.2%	3.7%	18.3%	14.6%
Gurugram	5.7%	10.1%	4.4%	18.5%	25.9%	7.4%
Hisar	4.1%	7.6%	3.5%	2.3%	12.7%	10.4%
Jhajjar	2.7%	5.4%	2.7%	11.0%	23.0%	12.0%
Jind	12.5%	25.5%	13.0%	8.7%	28.4%	19.7%
Kaithal	1.4%	9.3%	7.9%	2.1%	14.1%	12.0%
Karnal	8.8%	13.7%	4.9%	17.6%	30.9%	13.3%
Kurukshetra	9.4%	14.3%	4.9%	7.6%	12.7%	5.1%
Mahendragarh	1.8%	7.3%	5.5%	4.3%	10.6%	6.3%
Nuh	13.9%	16.8%	2.9%	30.3%	18.8%	-11.5%
Palwal	5.6%	5.3%	-0.3%	10.2%	5.8%	-4.4%
Panchkula	8.5%	11.5%	3.1%	3.7%	11.9%	8.2%
Panipat	7.2%	14.2%	7.0%	7.8%	36.3%	28.5%
Rewari	2.8%	3.9%	1.1%	8.4%	19.7%	11.3%
Rohtak	0.6%	9.5%	9.0%	2.0%	15.6%	13.7%
Sirsa	4.2%	6.5%	2.3%	2.7%	9.1%	6.4%
Sonepat	10.0%	10.0%	0.0%	18.0%	18.4%	0.4%
Yamunanagar	9.9%	22.4%	12.5%	5.9%	37.1%	31.2%
TOTAL	6.9%	11.4%	4.5%	9.6%	19.8%	10.2%

Table No. 11 shows that in 2nd Round of Sero survey, more positive deviation was observed in positivity rate (%) of urban area in comparison to rural area of Haryana. Most of the Districts were having positive deviation in urban area except Nuh and Palwal. Whereas in rural area Bhiwani, Charkhi Dadri and Palwal were having negative deviation in positivity rate (%).

District Name	Cluster Type	Cluster Name	Inconclusive	Negative	Positive	Total
Ambala	Rural	Ambli	0 (0%)	28 (77.8%)	8 (22.2%)	36
	Rural	Bara	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Gagnheri	0 (0%)	34 (91.9%)	3 (8.1%)	37
	Rural	Jalheri gujran	0 (0%)	31 (83.8%)	6 (16.2%)	37
	Rural	Malikpur	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Nauhani	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Nurdh	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Saikabag	0 (0%)	31 (83.8%)	6 (16.2%)	37
	Rural	Shahpur	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Thamber	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Tharwa Majri	0 (0%)	28 (77.8%)	8 (22.2%)	36
	Rural	Ugala	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural Total		0 (0%)	380 (87.4%)	55 (12.6%)	435
	Urban	UPHC Ekta Vihar Chhabiyana	0 (0%)	57 (79.2%)	15 (20.8%)	72
	Urban	UPHC Nishat Singh Bagh	0 (0%)	53 (73.6%)	19 (26.4%)	72
	Urban	UPHC Palledar Mohalla Cant.	0 (0%)	39 (54.2%)	33 (45.8%)	72
	Urban	UPHC Ravidas Majri	0 (0%)	53 (73.6%)	19 (26.4%)	72
	Urban Total		0 (0%)	202 (70.1%)	86 (29.9%)	288
	Total		0 (0%)	582 (80.5%)	141 (19.5%)	723
Bhiwani	Rural	Barwa	0 (0%)	37 (97.4%)	1 (2.6%)	38
	Rural	Bushaan	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Dhani	0 (0%)	34 (100%)	0 (0%)	34
	Rural	Fartia Bhima	0 (0%)	35 (100%)	0 (0%)	35
	Rural	Fartia Kehar	0 (0%)	35 (100%)	0 (0%)	35
	Rural	Hasan	0 (0%)	33 (100%)	0 (0%)	33
	Rural	Kairu	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Kikral	0 (0%)	38 (100%)	0 (0%)	38
	Rural	Leghan Bhanan	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Leghan Hetwan	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Rodhan	0 (0%)	35 (92.1%)	3 (7.9%)	38
	Rural	Sohasara	0 (0%)	47 (97.9%)	1 (2.1%)	48
	Rural Total		0 (0%)	432 (97.5%)	11 (2.5%)	443
	Urban	Huda Dispensary Sector-13	0 (0%)	70 (97.2%)	2 (2.8%)	72

	Urban	UPHC Dhana Ladanpur Road Dadri Gate	0 (0%)	71 (98.6%)	1 (1.4%)	72
	Urban	UPHC Dinod Road Behind Gum Factory	0 (0%)	67 (93.1%)	5 (6.9%)	72
	Urban	UPHC MC Colony	0 (0%)	68 (94.4%)	4 (5.6%)	72
	Urban Total		0 (0%)	276 (95.8%)	12 (4.2%)	288
	Total		0 (0%)	708 (96.9%)	23 (3.1%)	731
Charki Dadri	Rural	Badhra	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural	Baund Kalan	0 (0%)	36 (97.3%)	1 (2.7%)	37
	Rural	Bheed Bhairavi	0 (0%)	38 (100%)	0 (0%)	38
	Rural	Chandwas	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Dhani Nanda	0 (0%)	36 (97.3%)	1 (2.7%)	37
	Rural	Kadma	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Kheri Bura	0 (0%)	30 (81.1%)	7 (18.9%)	37
	Rural	Lad	0 (0%)	44 (97.8%)	1 (2.2%)	45
	Rural	Malkosh	0 (0%)	36 (97.3%)	1 (2.7%)	37
	Rural	Mankawas	0 (0%)	36 (87.8%)	5 (12.2%)	41
	Rural	Nimar	0 (0%)	35 (94.6%)	2 (5.4%)	37
	Rural	Nimri	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural Total		0 (0%)	425 (93.8%)	28 (6.2%)	453
	Urban	Champapuri	0 (0%)	68 (91.9%)	6 (8.1%)	74
	Urban	Civil Hospital Ch. Dadri	0 (0%)	72 (94.7%)	4 (5.3%)	76
	Urban	MC Colony	0 (0%)	67 (93.1%)	5 (6.9%)	72
	Urban	MCH Unit	0 (0%)	59 (79.7%)	15 (20.3%)	74
	Urban Total		0 (0%)	266 (89.9%)	30 (10.1%)	296
	Total		0 (0%)	691 (92.3%)	58 (7.7%)	749
Faridabad	Rural	Badraula	0 (0%)	38 (97.4%)	1 (2.6%)	39
	Rural	Chandawali	0 (0%)	17 (47.2%)	19 (52.8%)	36
	Rural	Chandpur	0 (0%)	34 (87.2%)	5 (12.8%)	39
	Rural	Dayalpur	0 (0%)	28 (77.8%)	8 (22.2%)	36
	Rural	Dhouj	0 (0%)	28 (62.2%)	17 (37.8%)	45
	Rural	Kheri kalan	0 (0%)	33 (82.5%)	7 (17.5%)	40
	Rural	Kurali	0 (0%)	24 (61.5%)	15 (38.5%)	39
	Rural	Mahwatpur	0 (0%)	30 (76.9%)	9 (23.1%)	39
	Rural	Nacholi	0 (0%)	34 (81%)	8 (19%)	42

	Rural	Pawta Mohbatabad	0 (0%)	35 (71.4%)	14 (28.6%)	49
	Rural	Shahpur Kalan	0 (0%)	25 (69.4%)	11 (30.6%)	36
	Rural	Sirohi	0 (0%)	37 (78.7%)	10 (21.3%)	47
	Rural Total		0 (0%)	363 (74.5%)	124 (25.5%)	487
	Urban	UPHC Adarsh Nagar	0 (0%)	42 (53.8%)	36 (46.2%)	78
	Urban	UPHC Bhim Basti Sector-18	0 (0%)	52 (67.5%)	25 (32.5%)	77
	Urban	UPHC Mewla	0 (0%)	50 (66.7%)	25 (33.3%)	75
	Urban	UPHC Saran	0 (0%)	42 (51.9%)	39 (48.1%)	81
	Urban Total		0 (0%)	186 (59.8%)	125 (40.2%)	311
	Total		0 (0%)	549 (68.8%)	249 (31.2%)	798
Fatehabad	Rural	Akanwali	0 (0%)	34 (91.9%)	3 (8.1%)	37
	Rural	Balbhomia	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Bangaon	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Bhodi	0 (0%)	34 (85%)	6 (15%)	40
	Rural	Bhuna	0 (0%)	34 (91.9%)	3 (8.1%)	37
	Rural	Bhuthan Kalan	0 (0%)	36 (94.7%)	2 (5.3%)	38
	Rural	Bhuthan Khurd	0 (0%)	36 (92.3%)	3 (7.7%)	39
	Rural	Dhingsara	0 (0%)	36 (90%)	4 (10%)	40
	Rural	Digoh	0 (0%)	35 (92.1%)	3 (7.9%)	38
	Rural	Gotru	0 (0%)	35 (94.6%)	2 (5.4%)	37
	Rural	Kullan	0 (0%)	32 (86.5%)	5 (13.5%)	37
	Rural	Sirdhan	0 (0%)	36 (97.3%)	1 (2.7%)	37
	Rural Total		0 (0%)	415 (91.8%)	37 (8.2%)	452
	Urban	Huda Polyclinic	0 (0%)	57 (77%)	17 (23%)	74
	Urban	UPHC Ashok Nagar	0 (0%)	65 (83.3%)	13 (16.7%)	78
	Urban	UPHC Raj Nagar	0 (0%)	68 (90.7%)	7 (9.3%)	75
	Urban	UPHC Ratia	0 (0%)	56 (75.7%)	18 (24.3%)	74
	Urban Total		0 (0%)	246 (81.7%)	55 (18.3%)	301
	Total		0 (0%)	661 (87.8%)	92 (12.2%)	753
Gurugram	Rural	Bhondsi	0 (0%)	34 (85%)	6 (15%)	40
	Rural	Bhudhera	1 (2.6%)	37 (97.4%)	0 (0%)	38
	Rural	Chandu	0 (0%)	36 (94.7%)	2 (5.3%)	38
	Rural	Choma under SC Karterpuri	1 (2.6%)	35 (92.1%)	2 (5.3%)	38

	Rural	Dhani Rithoj	2 (5%)	38 (95%)	0 (0%)	40
	Rural	Dundaheri	2 (4.9%)	22 (53.7%)	17 (41.5%)	41
	Rural	Garhi Harsaru	1 (2.6%)	30 (78.9%)	7 (18.4%)	38
	Rural	Gurgaon village	2 (5%)	31 (77.5%)	7 (17.5%)	40
	Rural	Kasan	0 (0%)	35 (87.5%)	5 (12.5%)	40
	Rural	Manesar	0 (0%)	39 (97.5%)	1 (2.5%)	40
	Rural	Nanwalki	3 (7.5%)	37 (92.5%)	0 (0%)	40
	Rural	Rethoj	1 (2.5%)	38 (95%)	1 (2.5%)	40
	Rural Total		13 (2.7%)	412 (87.1%)	48 (10.1%)	473
	Urban	UPHC Fazilpur	0 (0%)	63 (78.8%)	17 (21.3%)	80
	Urban	UPHC Khandsa	5 (6.3%)	46 (57.5%)	29 (36.3%)	80
	Urban	UPHC Naharpur Roopa	2 (2.5%)	51 (63.8%)	27 (33.8%)	80
	Urban	UPHC Rajendera Park	1 (1.3%)	69 (86.3%)	10 (12.5%)	80
	Urban Total		8 (2.5%)	229 (71.6%)	83 (25.9%)	320
	Total		21 (2.6%)	641 (80.8%)	131 (16.5%)	793
Hisar	Rural	Bhiwani Rohilla	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Dhanderi	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Dhani under SC Dhana Khurd	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Dhiranwas under SC Rawak waskalan	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Gawar	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Ladwa	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Mirzapur	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Raipur under SC Shikharpur	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Ramayan	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Sisar	0 (0%)	34 (91.9%)	3 (8.1%)	37
	Rural	Sorkhi	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Umra	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural Total		0 (0%)	400 (92.4%)	33 (7.6%)	433
	Urban	UPHC Char Qutub Gate	0 (0%)	72 (100%)	0 (0%)	72
	Urban	UPHC Mahabir Colony	0 (0%)	65 (89%)	8 (11%)	73
	Urban	UPHC Patel Nagar	0 (0%)	56 (75.7%)	18 (24.3%)	74
	Urban	UPHC Rishi Nagar Ghora Farm Road	0 (0%)	61 (84.7%)	11 (15.3%)	72

	Urban Total		0 (0%)	254 (87.3%)	37 (12.7%)	291
	Total		0 (0%)	654 (90.3%)	70 (9.7%)	724
Jhajjar	Rural	Babra	0 (0%)	39 (100%)	0 (0%)	39
	Rural	Charra	0 (0%)	38 (95%)	2 (5%)	40
	Rural	Chimni	0 (0%)	35 (94.6%)	2 (5.4%)	37
	Rural	Dawala	0 (0%)	38 (100%)	0 (0%)	38
	Rural	Dubaldhan Majra	0 (0%)	36 (92.3%)	3 (7.7%)	39
	Rural	Kharman	0 (0%)	39 (97.5%)	1 (2.5%)	40
	Rural	Kondhrawali	0 (0%)	32 (84.2%)	6 (15.8%)	38
	Rural	Nilaheri	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Salhawas	0 (0%)	33 (94.3%)	2 (5.7%)	35
	Rural	Silani	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Silothi	0 (0%)	38 (92.7%)	3 (7.3%)	41
	Rural	Siwani	0 (0%)	38 (95%)	2 (5%)	40
	Rural Total		0 (0%)	434 (94.6%)	25 (5.4%)	459
	Urban	UPHC Adarsh Nagar	0 (0%)	67 (79.8%)	17 (20.2%)	84
	Urban	UPHC Chhotu Ram Nagar	0 (0%)	62 (68.9%)	28 (31.1%)	90
	Urban	UPHC Ram Nagar Barnala Road	0 (0%)	57 (71.3%)	23 (28.8%)	80
	Urban	UPHC Sitaram Gate	0 (0%)	72 (88.9%)	9 (11.1%)	81
	Urban Total		0 (0%)	258 (77%)	77 (23%)	335
	Total		0 (0%)	692 (87.2%)	102 (12.8%)	794
Jind	Rural	Bhutani	0 (0%)	26 (68.4%)	12 (31.6%)	38
	Rural	Dariyawala	0 (0%)	44 (88%)	6 (12%)	50
	Rural	Hat	0 (0%)	32 (84.2%)	6 (15.8%)	38
	Rural	Ikas	0 (0%)	24 (63.2%)	14 (36.8%)	38
	Rural	Intal Kalan	0 (0%)	10 (26.3%)	28 (73.7%)	38
	Rural	Kalawati	0 (0%)	35 (87.5%)	5 (12.5%)	40
	Rural	Kharal	0 (0%)	27 (75%)	9 (25%)	36
	Rural	Lajwana Khurd	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Nidhana	0 (0%)	20 (55.6%)	16 (44.4%)	36
	Rural	Ramkali	0 (0%)	33 (84.6%)	6 (15.4%)	39
	Rural	Surajakhera	0 (0%)	26 (63.4%)	15 (36.6%)	41
	Rural	Ujhana	0 (0%)	36 (100%)	0 (0%)	36

	Rural Total		0 (0%)	347 (74.5%)	119 (25.5%)	466
	Urban	Patiala Chowk	0 (0%)	55 (74.3%)	19 (25.7%)	74
	Urban	Polyclinic Sec-8	0 (0%)	53 (75.7%)	17 (24.3%)	70
	Urban	UPHC Apollo Road Jind	0 (0%)	43 (58.1%)	31 (41.9%)	74
	Urban	UPHC Budha Baba Basti Bhiwani Road	0 (0%)	58 (78.4%)	16 (21.6%)	74
	Urban Total		0 (0%)	209 (71.6%)	83 (28.4%)	292
	Total		0 (0%)	556 (73.4%)	202 (26.6%)	758
Kaithal	Rural	Badsikri Kalan	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Badsikri Khurd	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural	Bandrana	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Deora	0 (0%)	30 (85.7%)	5 (14.3%)	35
	Rural	Jakhauli	2 (5.4%)	35 (94.6%)	0 (0%)	37
	Rural	Jaswanti	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Kalayatt	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Keorak	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Kichana	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Nand Karan Majra	0 (0%)	35 (100%)	0 (0%)	35
	Rural	Solumajra	0 (0%)	31 (91.2%)	3 (8.8%)	34
	Rural	Teek	0 (0%)	30 (78.9%)	8 (21.1%)	38
	Rural Total		2 (0.5%)	389 (90.3%)	40 (9.3%)	431
	Urban	UPHC Guhla	0 (0%)	49 (68.1%)	23 (31.9%)	72
	Urban	UPHC Old Hospital	0 (0%)	67 (93.1%)	5 (6.9%)	72
	Urban	UPHC Patel Nagar Near ITI	0 (0%)	68 (91.9%)	6 (8.1%)	74
	Urban	UPHC Shakti Nagar	0 (0%)	65 (90.3%)	7 (9.7%)	72
	Urban Total		0 (0%)	249 (85.9%)	41 (14.1%)	290
	Total		2 (0.3%)	638 (88.5%)	81 (11.2%)	721
Karnal	Rural	Bastali	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Begampur	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Biana	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Bir Majri	0 (0%)	37 (100%)	0 (0%)	37
	Rural	Chorkarsa	0 (0%)	36 (94.7%)	2 (5.3%)	38
	Rural	Gharaunda	0 (0%)	27 (65.9%)	14 (34.1%)	41
	Rural	Gheer	0 (0%)	31 (86.1%)	5 (13.9%)	36

	Rural	Jalmana	0 (0%)	36 (92.3%)	3 (7.7%)	39
	Rural	Kohand	0 (0%)	30 (81.1%)	7 (18.9%)	37
	Rural	Mehmal	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Nissing	0 (0%)	29 (80.6%)	7 (19.4%)	36
	Rural	Rugsana	0 (0%)	28 (75.7%)	9 (24.3%)	37
	Rural Total		0 (0%)	384 (86.3%)	61 (13.7%)	445
	Urban	HUDA Dispensary Sector-6	0 (0%)	54 (70.1%)	23 (29.9%)	77
	Urban	UPHC Indira Colony	0 (0%)	53 (71.6%)	21 (28.4%)	74
	Urban	UPHC Ram Nagar	0 (0%)	46 (59.7%)	31 (40.3%)	77
	Urban	UPHC Shiv Colony	0 (0%)	57 (75%)	19 (25%)	76
	Urban Total		0 (0%)	210 (69.1%)	94 (30.9%)	304
	Total		0 (0%)	594 (79.3%)	155 (20.7%)	749
Kurukshetra	Rural	Bir Mathana	0 (0%)	35 (89.7%)	4 (10.3%)	39
	Rural	Deeg	0 (0%)	36 (90%)	4 (10%)	40
	Rural	Harigarh Bhorakh	0 (0%)	34 (91.9%)	3 (8.1%)	37
	Rural	Jandheri	0 (0%)	27 (87.1%)	4 (12.9%)	31
	Rural	Kanthala	0 (0%)	33 (82.5%)	7 (17.5%)	40
	Rural	Khanpur Kohlian	0 (0%)	24 (64.9%)	13 (35.1%)	37
	Rural	Mathana	0 (0%)	39 (95.1%)	2 (4.9%)	41
	Rural	Partapgarh	0 (0%)	38 (100%)	0 (0%)	38
	Rural	Sirsama	0 (0%)	37 (90.2%)	4 (9.8%)	41
	Rural	Sirsla	0 (0%)	27 (77.1%)	8 (22.9%)	35
	Rural	Thaska Miranji	0 (0%)	30 (76.9%)	9 (23.1%)	39
	Rural	Yara	0 (0%)	30 (81.1%)	7 (18.9%)	37
	Rural Total		0 (0%)	390 (85.7%)	65 (14.3%)	455
	Urban	Civil Dispensary Gandhi Nagar	0 (0%)	67 (93.1%)	5 (6.9%)	72
	Urban	UPHC Krishna Nagar Gamri	0 (0%)	69 (90.8%)	7 (9.2%)	76
	Urban	UPHC Majri Mohalla	0 (0%)	65 (74.7%)	22 (25.3%)	87
	Urban	UPHC Mohan Nagar	0 (0%)	67 (93.1%)	5 (6.9%)	72
	Urban Total		0 (0%)	268 (87.3%)	39 (12.7%)	307
	Total		0 (0%)	658 (86.4%)	104 (13.6%)	762
Mahendragarh	Rural	Antri	0 (0%)	26 (65%)	14 (35%)	40

	Rural	Chhapra Bibipur	0 (0%)	27 (69.2%)	12 (30.8%)	39
	Rural	Dantal	0 (0%)	36 (94.7%)	2 (5.3%)	38
	Rural	Dhani Bass	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Hudina	0 (0%)	37 (100%)	0 (0%)	37
	Rural	Kalwari	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Mundia Khera	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Mundiya Khera	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Nangal pipa	0 (0%)	40 (100%)	0 (0%)	40
	Rural	Nangal Sirohi	0 (0%)	44 (95.7%)	2 (4.3%)	46
	Rural	Nolaza	0 (0%)	33 (94.3%)	2 (5.7%)	35
	Rural	Rampura	0 (0%)	36 (100%)	0 (0%)	36
	Rural Total		0 (0%)	422 (92.7%)	33 (7.3%)	455
	Urban	Kanina	0 (0%)	68 (94.4%)	4 (5.6%)	72
	Urban	Nangal Chaudhary	0 (0%)	56 (75.7%)	18 (24.3%)	74
	Urban	UPHC Mahendargarh	0 (0%)	66 (91.7%)	6 (8.3%)	72
	Urban	UPHC Narnaul	0 (0%)	72 (96%)	3 (4%)	75
	Urban Total		0 (0%)	262 (89.4%)	31 (10.6%)	293
	Total		0 (0%)	684 (91.4%)	64 (8.6%)	748
Nuh	Rural	Falendi	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Kharkhari	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Kultajpur	0 (0%)	27 (75%)	9 (25%)	36
	Rural	Marora	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Mohlaka	0 (0%)	28 (77.8%)	8 (22.2%)	36
	Rural	Mundarka	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Pinangwan	0 (0%)	27 (73%)	10 (27%)	37
	Rural	Sat Pariaka	0 (0%)	29 (82.9%)	6 (17.1%)	35
	Rural	Shah Chokha	0 (0%)	34 (89.5%)	4 (10.5%)	38
	Rural	Sudaka	0 (0%)	26 (72.2%)	10 (27.8%)	36
	Rural	Tain	0 (0%)	29 (80.6%)	7 (19.4%)	36
	Rural	Tauru	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural Total		0 (0%)	361 (83.2%)	73 (16.8%)	434
	Urban	Firozpur Jhirka	0 (0%)	60 (83.3%)	12 (16.7%)	72
	Urban	Nagina (Rural)	0 (0%)	64 (87.7%)	9 (12.3%)	73
	Urban	Nuh Urban	0 (0%)	60 (78.9%)	16 (21.1%)	76
	Urban	Punhana (rural)	0 (0%)	54 (75%)	18 (25%)	72

	Urban Total		0 (0%)	238 (81.2%)	55 (18.8%)	293
	Total		0 (0%)	599 (82.4%)	128 (17.6%)	727
Palwal	Rural	Bhanguri Palwal	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Bhiduki	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Darana under SC Bhaindoli	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Deghot	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Hasanpur	0 (0%)	36 (100%)	0 (0%)	36
	Rural	kalsara	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Missa	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Raidaska	0 (0%)	35 (92.1%)	3 (7.9%)	38
	Rural	Rundhi	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Sapanki	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Sihol	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Taraka	0 (0%)	35 (94.6%)	2 (5.4%)	37
	Rural Total		0 (0%)	412 (94.7%)	23 (5.3%)	435
	Urban	Palwal Urban Area	0 (0%)	72 (98.6%)	1 (1.4%)	73
	Urban	UPHC Hodal	0 (0%)	70 (93.3%)	5 (6.7%)	75
	Urban	UPHC Kasba Mohalla	0 (0%)	62 (86.1%)	10 (13.9%)	72
	Urban	UPHC Sallagarh	0 (0%)	73 (98.6%)	1 (1.4%)	74
	Urban Total		0 (0%)	277 (94.2%)	17 (5.8%)	294
	Total		0 (0%)	689 (94.5%)	40 (5.5%)	729
Panchkula	Rural	Batwal	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Bhoj Koti	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Chandi Thanda	0 (0%)	25 (69.4%)	11 (30.6%)	36
	Rural	Ferozpur	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Ganouli	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Hangola	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural	Manak Tabra	0 (0%)	28 (77.8%)	8 (22.2%)	36
	Rural	Morni	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural	Raipur Rani	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Rajjipur	0 (0%)	35 (94.6%)	2 (5.4%)	37
	Rural	Surajpur	0 (0%)	29 (80.6%)	7 (19.4%)	36
	Rural	Thathar	0 (0%)	35 (97.2%)	1 (2.8%)	36

	Rural Total		0 (0%)	383 (88.5%)	50 (11.5%)	433
	Urban	Govt. Dispensary MCD IV	0 (0%)	66 (88%)	9 (12%)	75
	Urban	Govt. Dispensary Sector 12A	0 (0%)	71 (95.9%)	3 (4.1%)	74
	Urban	Govt. Dispensary Sector 25	0 (0%)	73 (82%)	16 (18%)	89
	Urban	Govt. Dispensary Sector 8	0 (0%)	64 (87.7%)	9 (12.3%)	73
	Urban Total		0 (0%)	274 (88.1%)	37 (11.9%)	311
	Total		0 (0%)	657 (88.3%)	87 (11.7%)	744
Panipat	Rural	Bilaspur	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Hathwala	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Israna	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural	Jalpar	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Jondhan Kalan	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Khandra	0 (0%)	29 (80.6%)	7 (19.4%)	36
	Rural	Mathloda	0 (0%)	26 (72.2%)	10 (27.8%)	36
	Rural	Naultha	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Nizampur	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Pattikalyana	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Thirana	0 (0%)	39 (97.5%)	1 (2.5%)	40
	Rural	Ugrakheri	0 (0%)	27 (73%)	10 (27%)	37
	Rural Total		0 (0%)	375 (85.8%)	62 (14.2%)	437
	Urban	UPHC Batra colony	0 (0%)	41 (56.9%)	31 (43.1%)	72
	Urban	UPHC Khatik Basti	0 (0%)	46 (63%)	27 (37%)	73
	Urban	UPHC Peri Urban Ugrakheri	0 (0%)	58 (80.6%)	14 (19.4%)	72
	Urban	UPHC Rajiv Colony	0 (0%)	39 (54.2%)	33 (45.8%)	72
	Urban Total		0 (0%)	184 (63.7%)	105 (36.3%)	289
	Total		0 (0%)	559 (77%)	167 (23%)	726
Rewari	Rural	Alwalpur	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Bahotwar Ahir	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Chauki No. 2	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Dahina Jainabad	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Dhani Santo	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Dharuhera	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Khol	0 (0%)	35 (92.1%)	3 (7.9%)	38
	Rural	Laduwas	0 (0%)	34 (94.4%)	2 (5.6%)	36

	Rural	Nangal	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Sangwari	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Shahbajpur Khalsa	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Tatarpur	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural Total		0 (0%)	417 (96.1%)	17 (3.9%)	434
	Urban	Huda Dispensary Sec-4	0 (0%)	61 (84.7%)	11 (15.3%)	72
	Urban	UPHC Akera	0 (0%)	63 (87.5%)	9 (12.5%)	72
	Urban	UPHC Qutub Pur	0 (0%)	62 (86.1%)	10 (13.9%)	72
	Urban	UPHC Rajeev Nagar	0 (0%)	46 (63%)	27 (37%)	73
	Urban Total		0 (0%)	232 (80.3%)	57 (19.7%)	289
	Total		0 (0%)	649 (89.8%)	74 (10.2%)	723
Rohtak	Rural	Ballamb	0 (0%)	34 (87.2%)	5 (12.8%)	39
	Rural	Brahmanwas	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Chuliana	0 (0%)	31 (83.8%)	6 (16.2%)	37
	Rural	Jassia	0 (0%)	40 (95.2%)	2 (4.8%)	42
	Rural	Jethpur	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Kalanaur	0 (0%)	33 (80.5%)	8 (19.5%)	41
	Rural	Kherawar	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Kheri Sadh	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Samar Gopalpur	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Sanghi	0 (0%)	34 (94.4%)	2 (5.6%)	36
	Rural	Sunderpur	0 (0%)	37 (90.2%)	4 (9.8%)	41
	Rural	Titoli	0 (0%)	30 (85.7%)	5 (14.3%)	35
	Rural Total		0 (0%)	408 (90.5%)	43 (9.5%)	451
	Urban	UPHC Ekta Colony	0 (0%)	63 (86.3%)	10 (13.7%)	73
	Urban	UPHC Gau Karan Roop Nagar Nehru Colony	0 (0%)	61 (79.2%)	16 (20.8%)	77
	Urban	UPHC Rajendra Colony Hari Singh Colony	0 (0%)	68 (88.3%)	9 (11.7%)	77
	Urban	UPHC Sukhpura Chowk	0 (0%)	67 (83.8%)	13 (16.3%)	80
	Urban Total		0 (0%)	259 (84.4%)	48 (15.6%)	307
	Total		0 (0%)	667 (88%)	91 (12%)	758
Sirsa	Rural	Darbi	0 (0%)	33 (94.3%)	2 (5.7%)	35
	Rural	Ghokanwali	0 (0%)	39 (97.5%)	1 (2.5%)	40
	Rural	Goriwala	0 (0%)	37 (97.4%)	1 (2.6%)	38

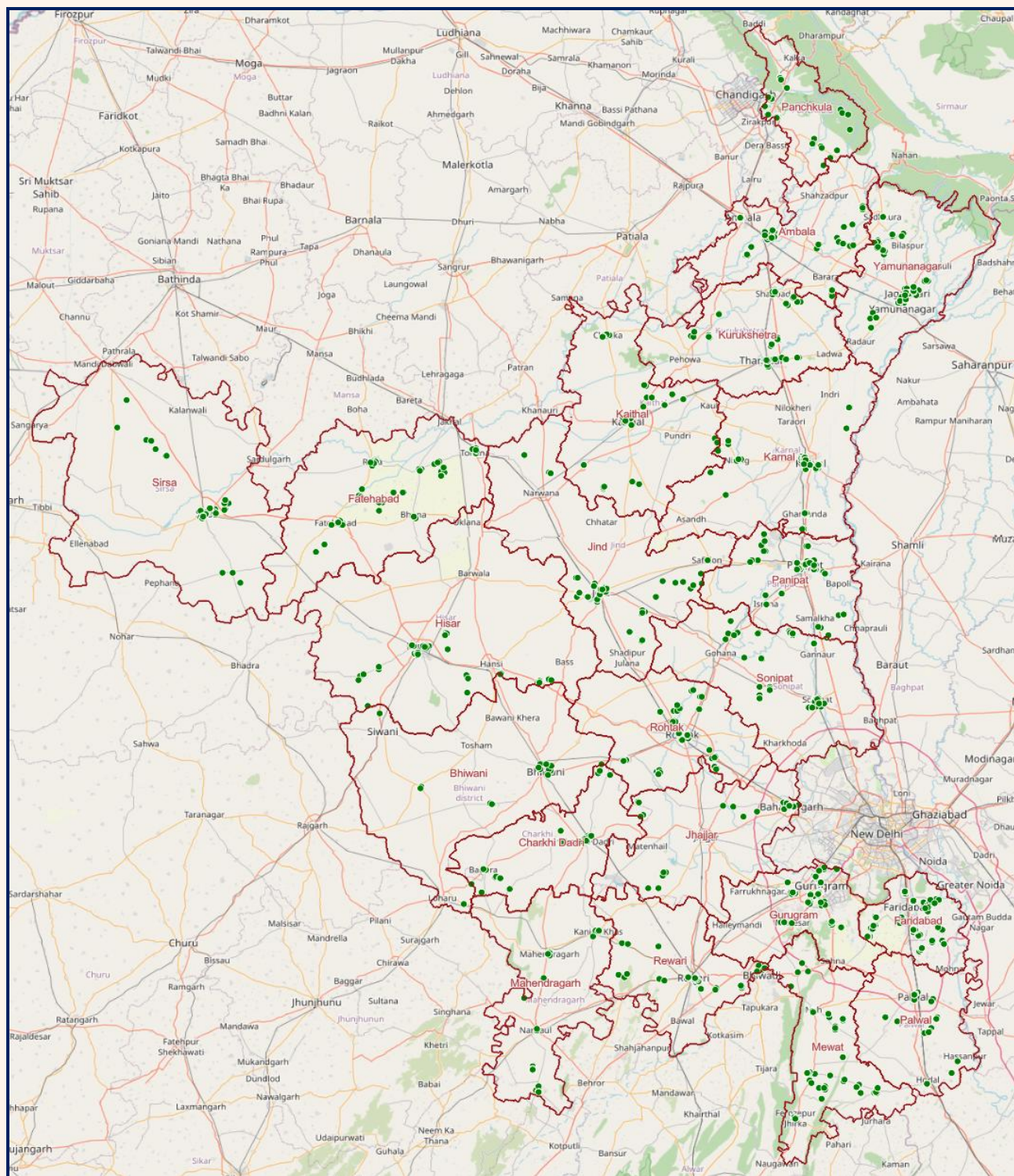
	Rural	Hanidi khera	0 (0%)	29 (78.4%)	8 (21.6%)	37
	Rural	Jutti Khera	0 (0%)	36 (100%)	0 (0%)	36
	Rural	Khuian Malkan	0 (0%)	38 (97.4%)	1 (2.6%)	39
	Rural	Ludesar	0 (0%)	36 (97.3%)	1 (2.7%)	37
	Rural	Nathusari Chopta	0 (0%)	32 (94.1%)	2 (5.9%)	34
	Rural	Nuthianwali	0 (0%)	38 (95%)	2 (5%)	40
	Rural	Panniwala motta	0 (0%)	38 (92.7%)	3 (7.3%)	41
	Rural	Tarkanwali	0 (0%)	35 (97.2%)	1 (2.8%)	36
	Rural	Vaidwala	0 (0%)	29 (80.6%)	7 (19.4%)	36
	Rural Total		0 (0%)	420 (93.5%)	29 (6.5%)	449
	Urban	Civil Dispensary sector -20	0 (0%)	81 (92%)	7 (8%)	88
	Urban	UPHC Chattatgarh Patti	0 (0%)	66 (89.2%)	8 (10.8%)	74
	Urban	UPHC Inderpuri Mohalla	0 (0%)	66 (90.4%)	7 (9.6%)	73
	Urban	UPHC Ther Mohalla	0 (0%)	67 (91.8%)	6 (8.2%)	73
	Urban Total		0 (0%)	280 (90.9%)	28 (9.1%)	308
	Total		0 (0%)	700 (92.5%)	57 (7.5%)	757
Sonipat	Rural	Ahulana	0 (0%)	30 (75%)	10 (25%)	40
	Rural	Bakharpur	0 (0%)	35 (92.1%)	3 (7.9%)	38
	Rural	Ghari Ghinjara	0 (0%)	35 (89.7%)	4 (10.3%)	39
	Rural	Guhna	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural	Kakana	0 (0%)	39 (100%)	0 (0%)	39
	Rural	Mohana	0 (0%)	32 (88.9%)	4 (11.1%)	36
	Rural	Niat	0 (0%)	40 (97.6%)	1 (2.4%)	41
	Rural	Sainipura	0 (0%)	35 (87.5%)	5 (12.5%)	40
	Rural	Saragthal	0 (0%)	33 (91.7%)	3 (8.3%)	36
	Rural	Sarsadh	0 (0%)	34 (85%)	6 (15%)	40
	Rural	Shamri	0 (0%)	38 (90.5%)	4 (9.5%)	42
	Rural	Tihar malik	0 (0%)	39 (95.1%)	2 (4.9%)	41
	Rural Total		0 (0%)	421 (90%)	47 (10%)	468
	Urban	UHC Mahavir Colony	0 (0%)	54 (75%)	18 (25%)	72
	Urban	UPHC Jatwara	0 (0%)	63 (87.5%)	9 (12.5%)	72
	Urban	UPHC Kailash Colony	0 (0%)	62 (86.1%)	10 (13.9%)	72
	Urban	UPHC Subhash Nagar	0 (0%)	56 (77.8%)	16 (22.2%)	72
	Urban Total		0 (0%)	235 (81.6%)	53 (18.4%)	288

	Total		0 (0%)	656 (86.8%)	100 (13.2%)	756
Yamunanagar	Rural	Ambwala	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural	Chaharwala	0 (0%)	28 (77.8%)	8 (22.2%)	36
	Rural	Gari Banjara	0 (0%)	29 (80.6%)	7 (19.4%)	36
	Rural	Hafizpur	0 (0%)	29 (80.6%)	7 (19.4%)	36
	Rural	Haibatpur	0 (0%)	23 (63.9%)	13 (36.1%)	36
	Rural	Kayampur	0 (0%)	30 (83.3%)	6 (16.7%)	36
	Rural	Kharwan	0 (0%)	30 (81.1%)	7 (18.9%)	37
	Rural	Kunjai	0 (0%)	31 (86.1%)	5 (13.9%)	36
	Rural	Naharpur	0 (0%)	29 (80.6%)	7 (19.4%)	36
	Rural	Sadhaura	0 (0%)	24 (66.7%)	12 (33.3%)	36
	Rural	Tumbi	0 (0%)	28 (77.8%)	8 (22.2%)	36
	Rural	Uddam Garh	0 (0%)	24 (66.7%)	12 (33.3%)	36
	Rural Total		0 (0%)	336 (77.6%)	97 (22.4%)	433
	Urban	Civil Dispensary HUDA	0 (0%)	44 (56.4%)	34 (43.6%)	78
	Urban	UPHC Ganga Nagar	0 (0%)	58 (72.5%)	22 (27.5%)	80
	Urban	UPHC Mukherji Park	0 (0%)	51 (61.4%)	32 (38.6%)	83
	Urban	UPHC Sarojini Colony	0 (0%)	49 (61.3%)	31 (38.8%)	80
	Urban Total		0 (0%)	202 (62.9%)	119 (37.1%)	321
	Total		0 (0%)	538 (71.4%)	216 (28.6%)	754
Haryana			23 (0.1%)	14022 (85.1%)	2432 (14.8%)	16477

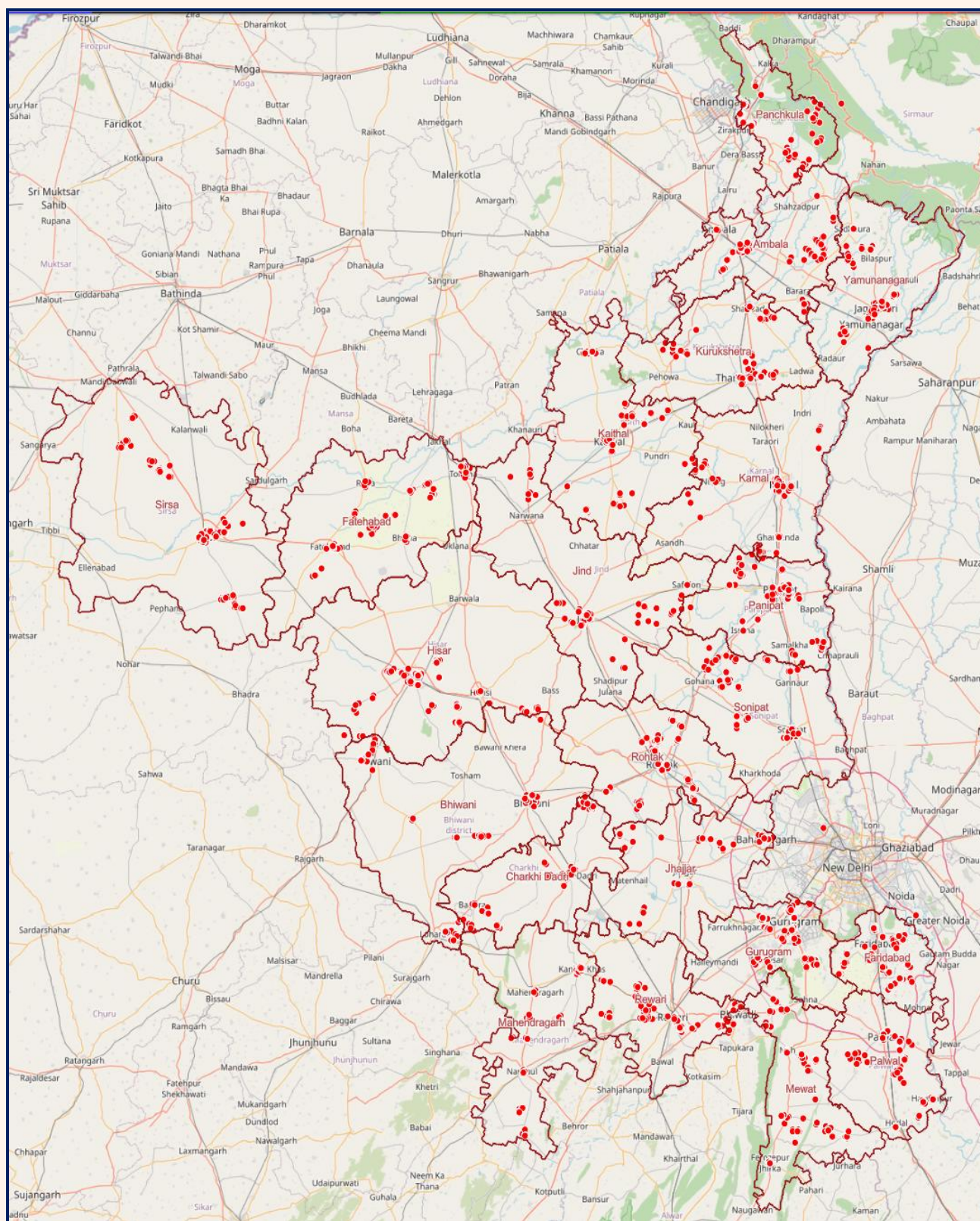
Table No. 12. Cluster Wise Seropositivity in Districts of Haryana in 2nd Round (N=16477)

GIS MAPING OF SERO SURVEY

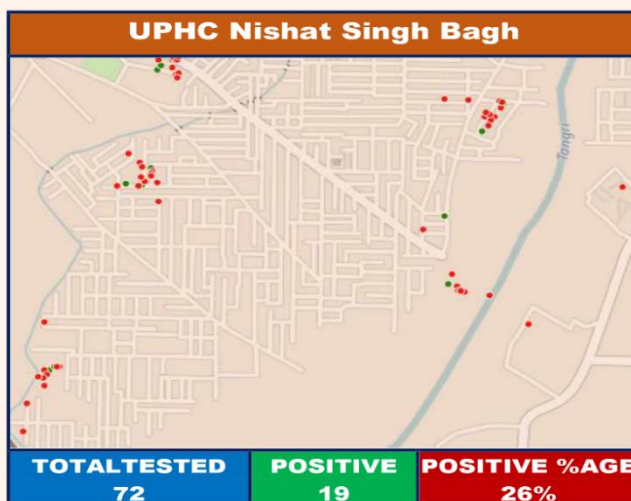
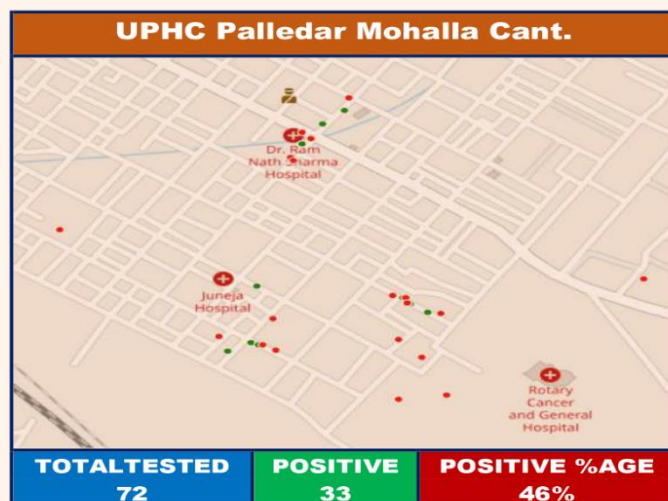
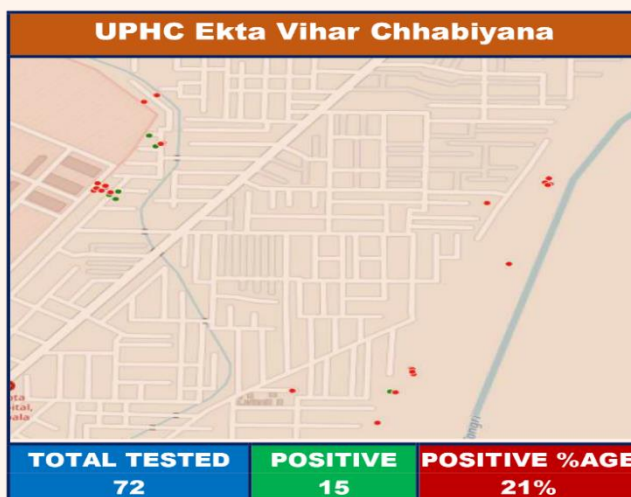
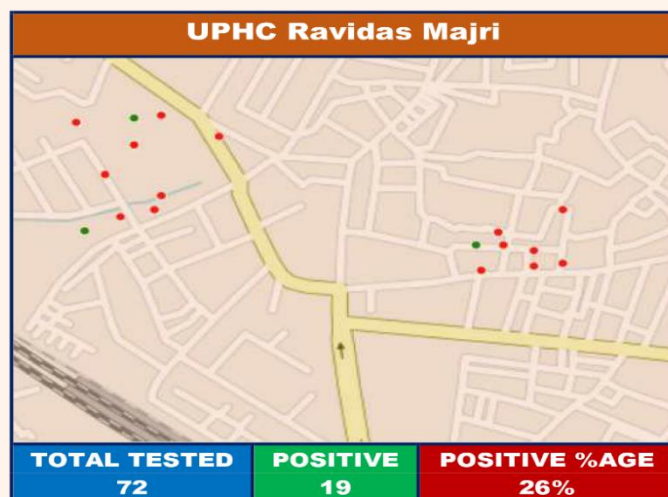
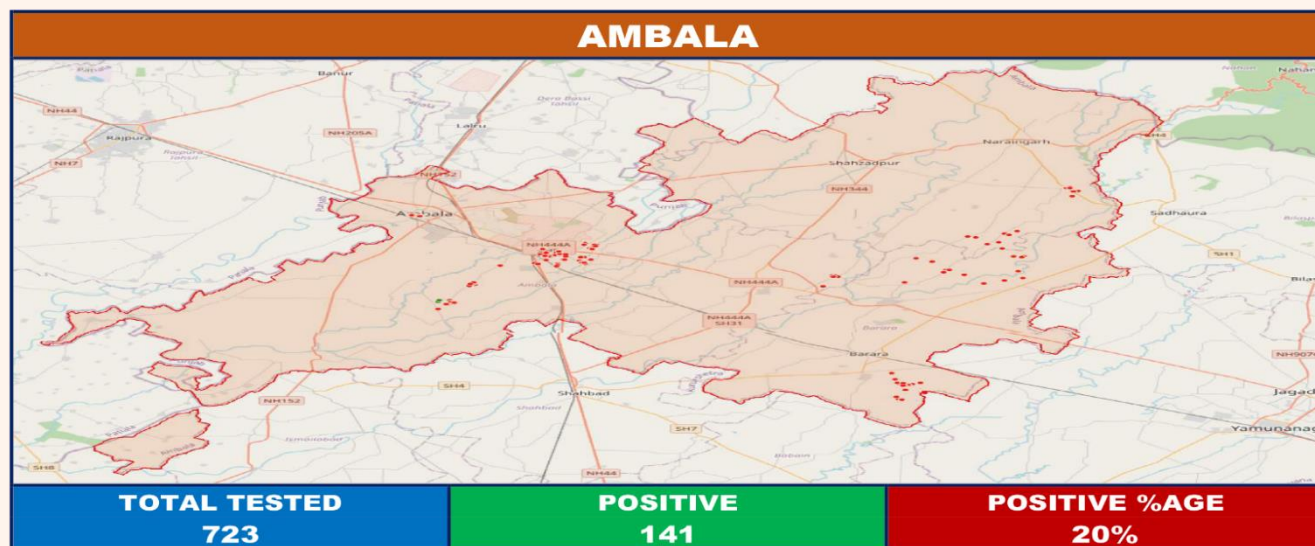
HARYANA – COVID-19 SERO SURVEY 2 (POSITIVE CASES)



HARYANA – COVID-19 SERO SURVEY 2 (NEGATIVE CASES)



AMBALA



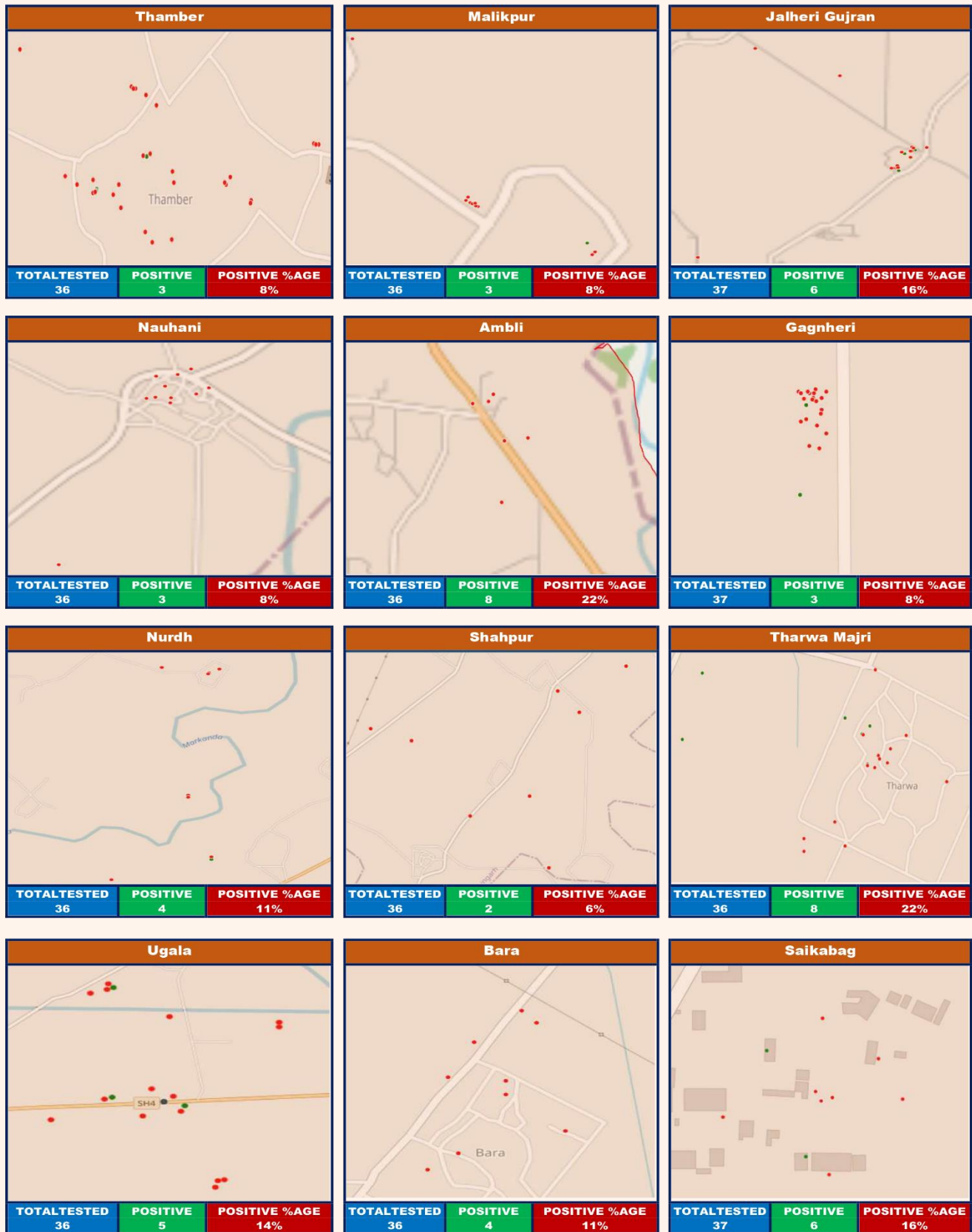


Table 1: Villages/ areas covered in District Ambala

Rural clusters	No. of samples collected
Ugala	36
Thamber	36
Malikpur	36
Tharwa Majri	36
Bara	36
Saikabag	37
Nauhani	36
Jalheri gujran	37
Gogeheri	37
Ambli	36
Shahpur	36
Nurdh	36
Urban clusters	No. of samples collected
Ekta Vihar Chhabiyana	72
Nishat Singh	72
Palledar Mohalla Cant.	72
Ravida Majri	72
Total 16 clusters	723

Table2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	27	3.7%
No	696	96.3%
Total	723	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	385	53.2%
Male	338	46.8%
Transgender	0	0%
Total	723	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	43.35	13.801
Male	49.38	16.567
Transgender	0	
Total	46.17	15.446

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
House wife	327	45.3%
Govt. Office	17	2.3%
Health care worker	32	4.4%
Labour/ Farmer	144	19.9%
Private job/ Business	70	9.7%
Non-working	70	9.7%
Any other	26	3.6%
Senior citizen (60 and above)	32	4.4%
Student	5	0.7%
Total	723	100%

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	34	4.70%
Hypertension	23	3.18%
Respiratory Disease	7	0.97%
Heart Disease	11	1.52%
Thyroid Disease	6	0.83%
Kidney disease	4	0.55%
Any other	8	1.10%
No known illness	630	87.02%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	31	4.3%
No	692	95.7%
Total	723	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	428	59.3%
No	295	40.7%
Total	723	100%

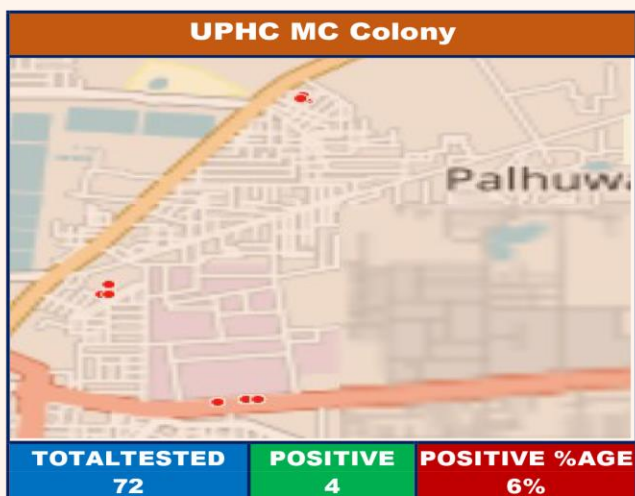
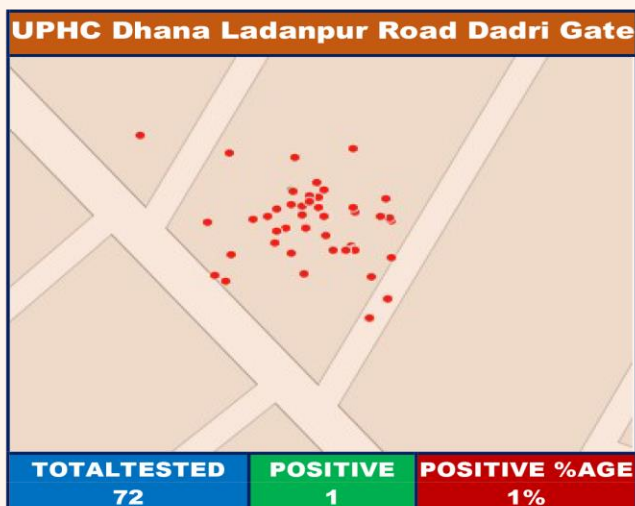
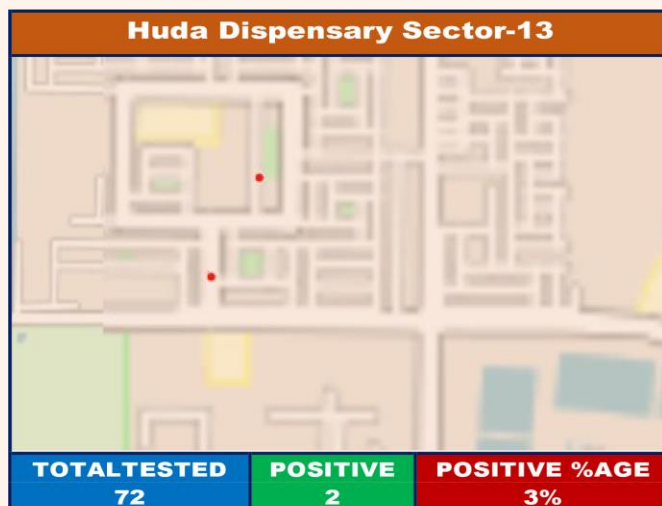
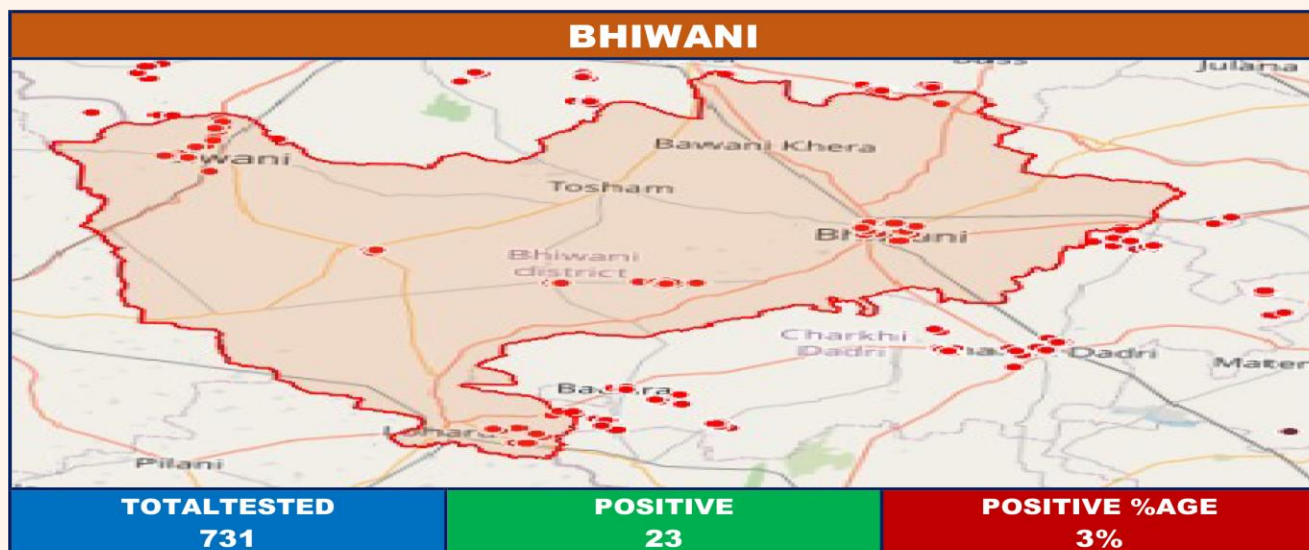
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	411	56.9%
No	312	43.1%
Total	723	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	324	44.8%
Awaited	46	6.4%
Positive	10	1.4%
Negative	343	47.5%
Total	723	100%

BHIWANI



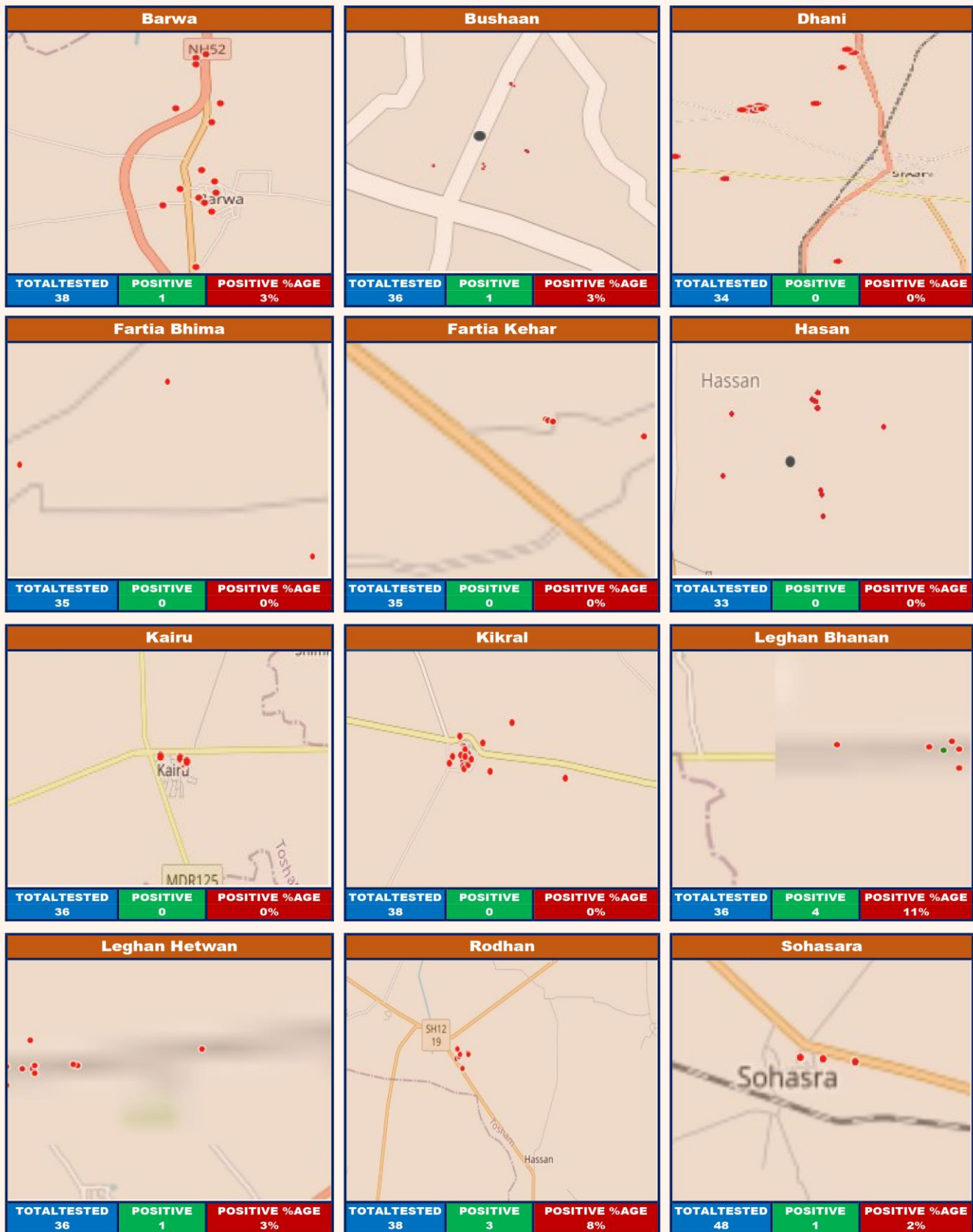


Table 1: Villages/ areas covered in District Bhivani

Rural clusters	No. of samples collected
Kairu	36
Leghan Bhanan	36
Leghan Hetwan	36
Sohasara	48
Fartia Bhima	35
Fartia Kehar	35
Barwa	38
Kikral	38
Dhani	34
Bushaan	36
Rodhan	38
Hasan	33
Urban clusters	No. of samples collected
Dhana Ladanpur Road Dadri Gate	72
Dinod Road Behind Gum Factory	72
MC Colony	72
Huda sector-13	72
Total 16 clusters	731

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	26	3.5%
No	705	96.5%
Total	731	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	315	43.3%
Male	416	56.7%
Transgender	0	0%
Total	731	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	41.83	13.949
Male	48.85	16.347
Transgender	0	
Total	45.82	15.737

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
House wife	247	33.8%
Govt. Office	23	3.2%
Health care worker	15	2.1%
Labour/ Farmer	194	26.6%
Private job/ Business	85	11.6%
Non-working	66	9.0%
Any other	7	1.0%
Senior citizen (60 and above)	65	8.8%
Student	29	4.0%
Total	731	100%

Table 6: History of any chronic illness (Multiple Responses)

Disease	Frequency	Percentage
Diabetes	21	2.90%
Hypertension	21	2.90%
Respiratory Disease	8	1.10%
Heart Disease	13	1.79%
Thyroid Disease	1	0.1%
Kidney disease	1	0.1%
Any other	6	0.8%
No known illness	673	92.83%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	55	7.3%
No	676	92.7%
Total	731	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	557	76.6%
No	174	23.4%
Total	731	100%

Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	578	79.2%
No	153	20.8%
Total	731	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	647	88.7%
Positive	82	11.0%
Negative	2	0.3%
Total	731	100%

CHARKI DADRI

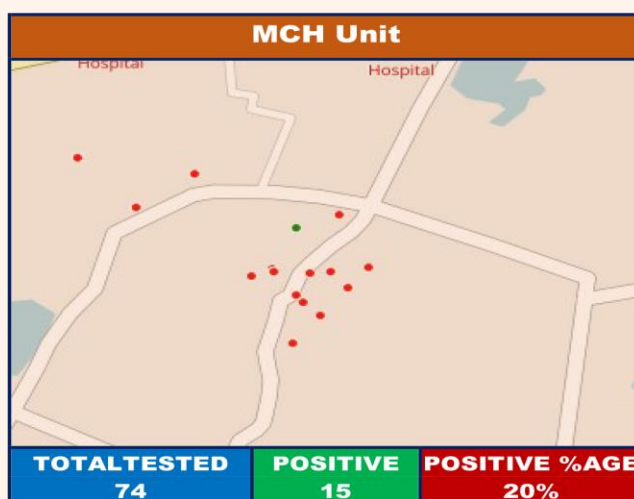
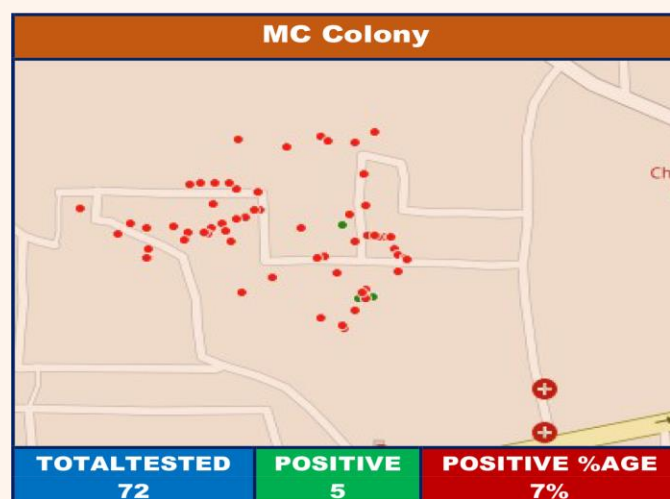
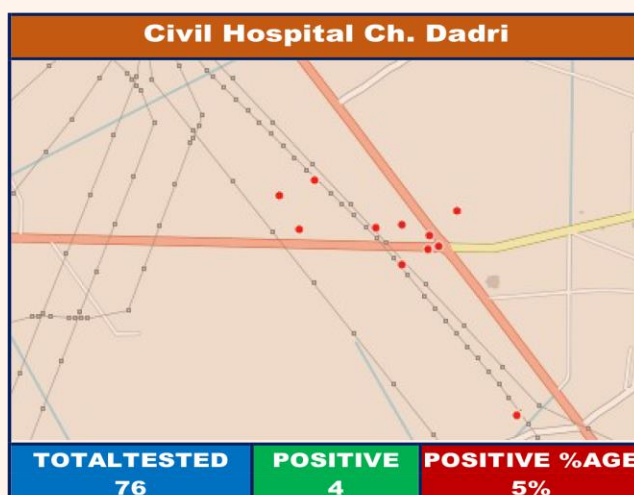
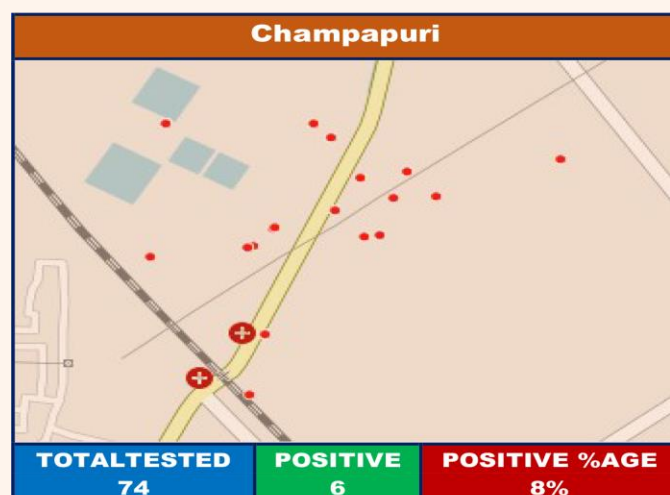
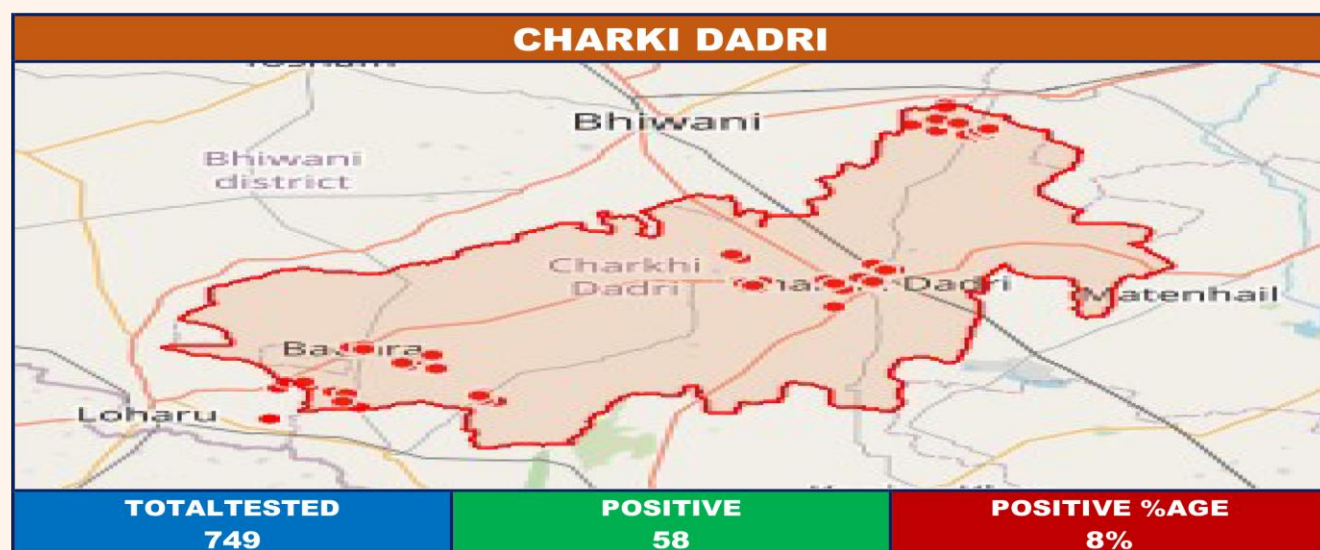




Table 1: Villages/ areas covered in District Charkhi Dadri

Rural clusters	No. of samples collected
Bond Kalan	37
Malkosh	37
Nimri	36
Badhra	36
Lad	45
Dhani Nandha	37
Kadma	36
Chandwas	36
Nimar	37
Mankawas	41
Kheri Bura	37
Beed Bhairvi	38
Urban clusters	No. of samples collected
Champapuri	74
MC Colony	72
MCH Unit	74
Civil Hospital Ch. Dadri	76
Total 16 clusters	749

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	8	1.1%
No	741	98.9%
Total	749	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	346	46.2%
Male	403	53.8%
Transgender	0	0%
Total	749	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	45.88	14.766
Male	49.12	17.215
Total	47.62	16.200

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
House wife	317	42.3%
Govt. Office	27	3.6%
Health care worker	31	4.1%
Labour/ Farmer	133	17.7%
Private job/ Business	66	8.9%
Non working	30	4.0%
Any other	6	0.8%
Senior citizen (60 and above)	91	12.2%
Student	48	6.5%
Total	749	100%

Table 6: History of any chronic illness

Disease	Frequency	Percentage
Diabetes	42	5.56%
Hypertension	53	7.02%
Respiratory Disease	12	1.59%
Heart Disease	10	1.32%
Thyroid Disease	2	0.26%
Kidney disease	0	0%
Any other	5	0.66%
No known illness	656	86.89%

Table 7: History of covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	64	8.6%
No	685	91.4%
Total	749	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	418	55.8%
No	331	44.2%
Total	749	100%

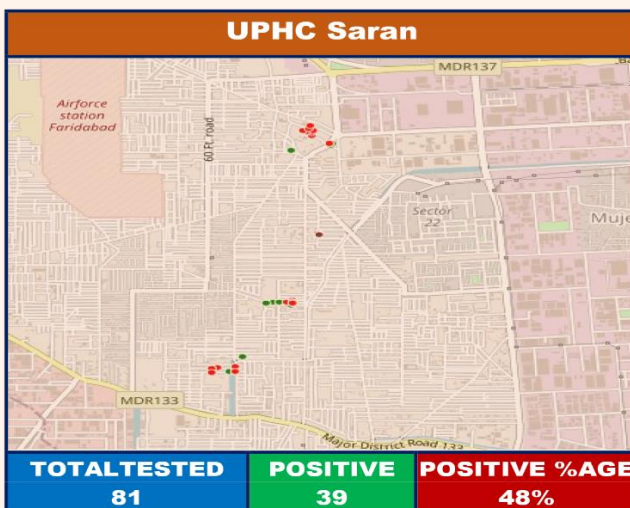
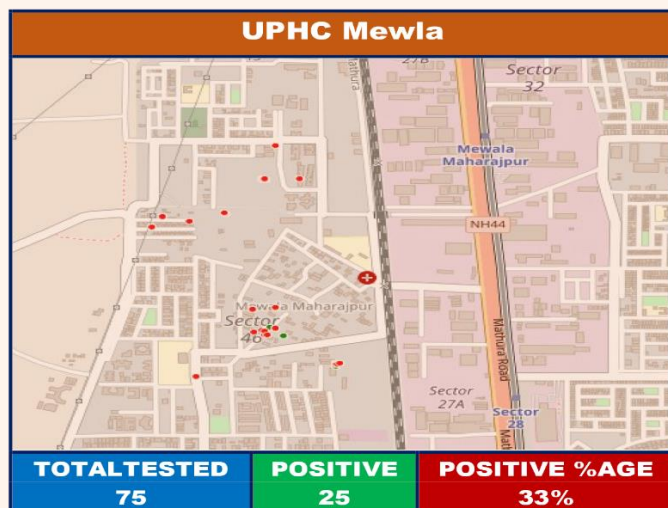
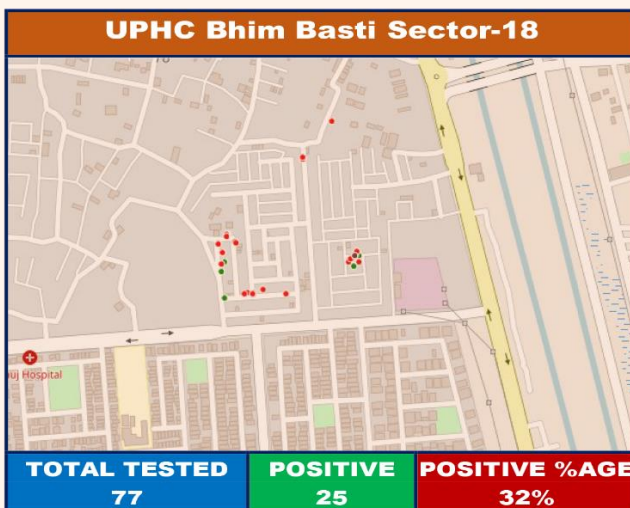
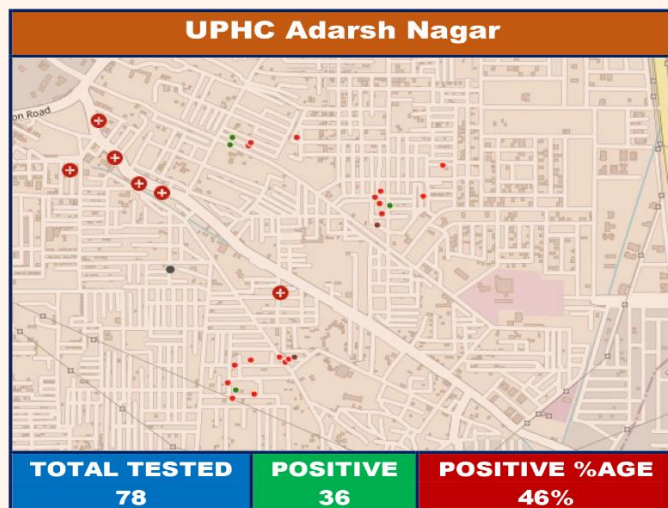
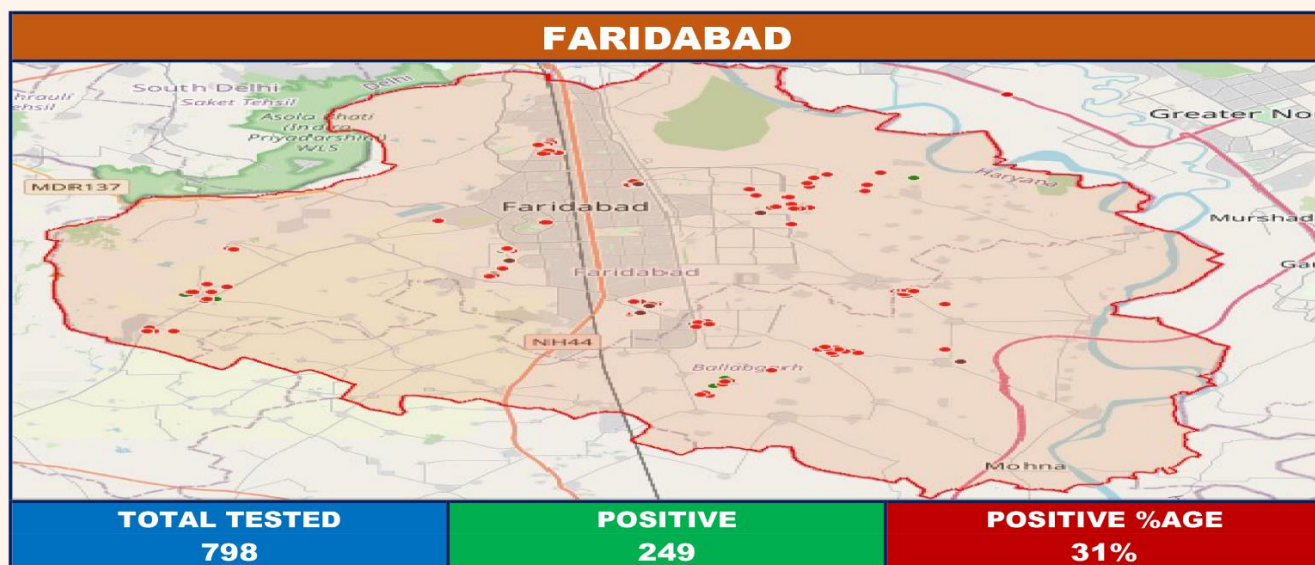
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	513	68.5%
No	236	31.5%
Total	749	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	671	89.6%
Positive	4	0.5%
Negative	73	9.8%
Awaited	1	0.1%
Total	749	100

FARIDABAD



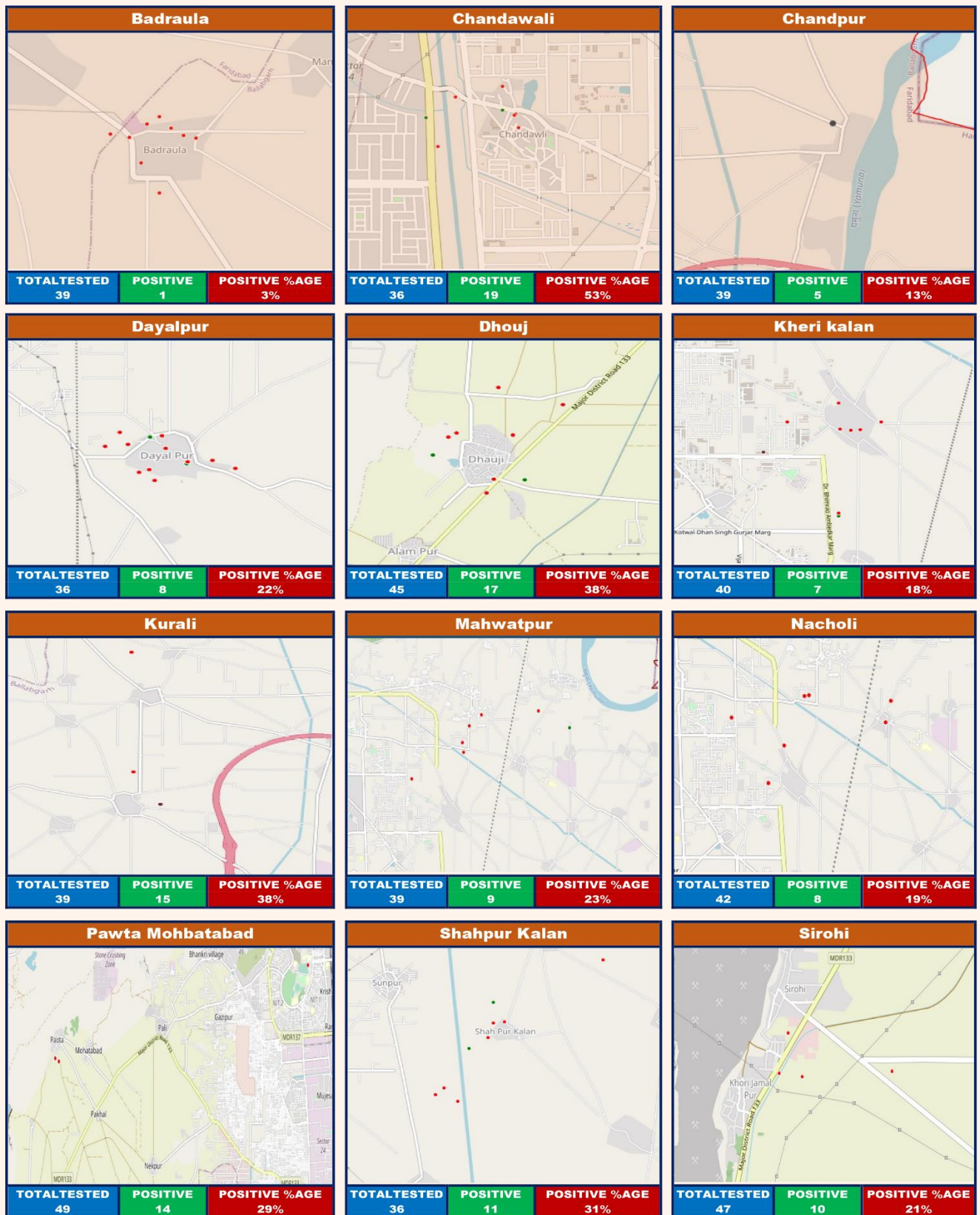


Table 1: Villages/ areas covered in District Faridabad

Rural clusters	No. of samples collected
Kheri Kalan	41
Mahwatpur	39
Nacholi	42
Dhouj	45
Sirohi	47
Pawta Mohbatabad	49
Kurali	40
Chandpur	39
Badraula	39
Dayalpur	36
Shahpur Kalan	36
Chandawali	36
Urban clusters	No. of samples collected
Adarsh Nagar	80
Bhim Basti sector-18	78
Mewla	75
Saran	82
Total 16 clusters	804

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	67	8.3%
No	737	91.7%
Total	804	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	458	57.1%
Male	346	42.9%
Transgender	0	0%
Total	804	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	42.08	14.352
Male	46.90	16.58
Transgender	0	0
Total	44.15	15.521

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
House wife	369	45.8%
Govt. Office	7	0.9%
Health care worker	26	3.2%
Labour/ Farmer	85	10.5%
Private job/ Business	116	14.5%
Non working	96	12.0%
Any other	6	0.7%
Senior citizen (60 and above)	73	9.0%
Student	26	3.2%
Total	804	100%

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	46	5.7%
Hypertension	56	6.94%
Respiratory Disease	7	0.876%
Heart Disease	13	1.61%
Thyroid Disease	4	0.50%
Kidney disease	1	0.12%
Any other	5	0.62%
No known illness	703	87.11%

Table 7: History of covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	84	10.4%
No	720	89.6%
Total	804	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	340	42.3%
No	464	57.7%
Total	804	100%

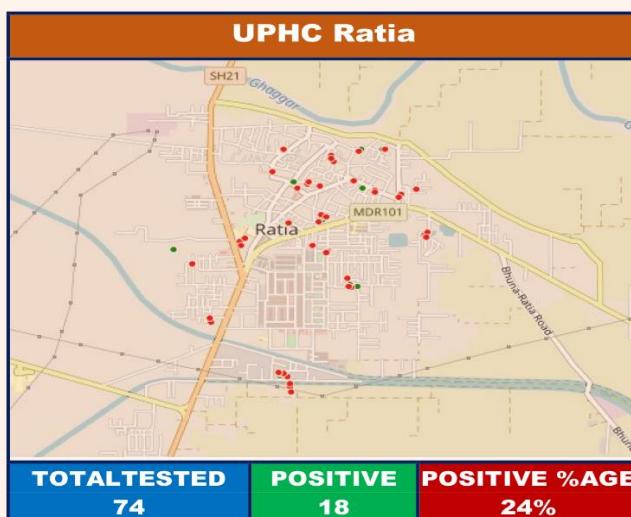
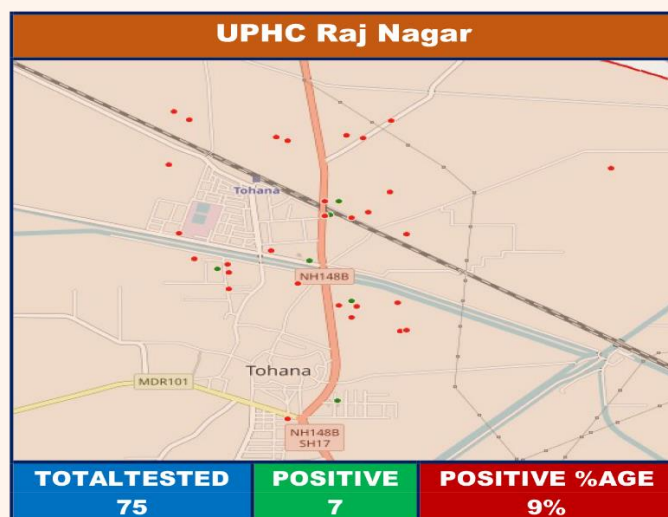
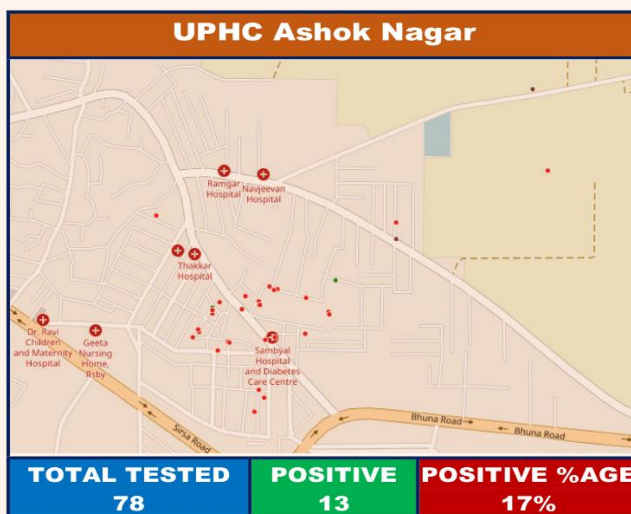
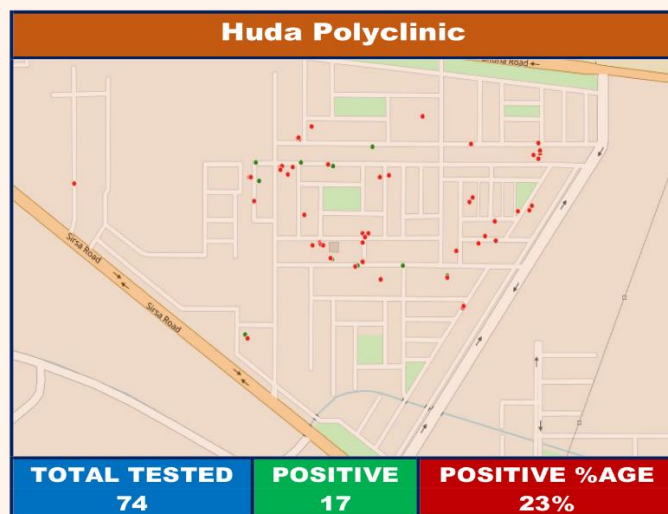
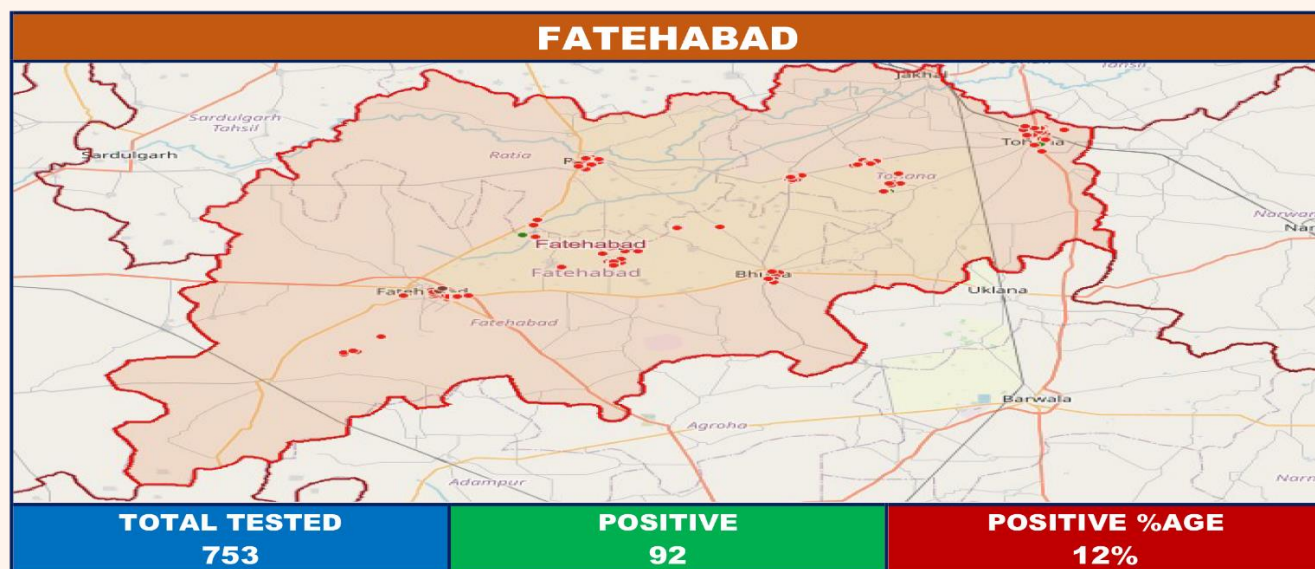
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	338	42%
No	466	58%
Total	804	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	645	80.3%
Positive	2	0.2%
Negative	157	19.5%
Total	804	100%

FATEHABAD



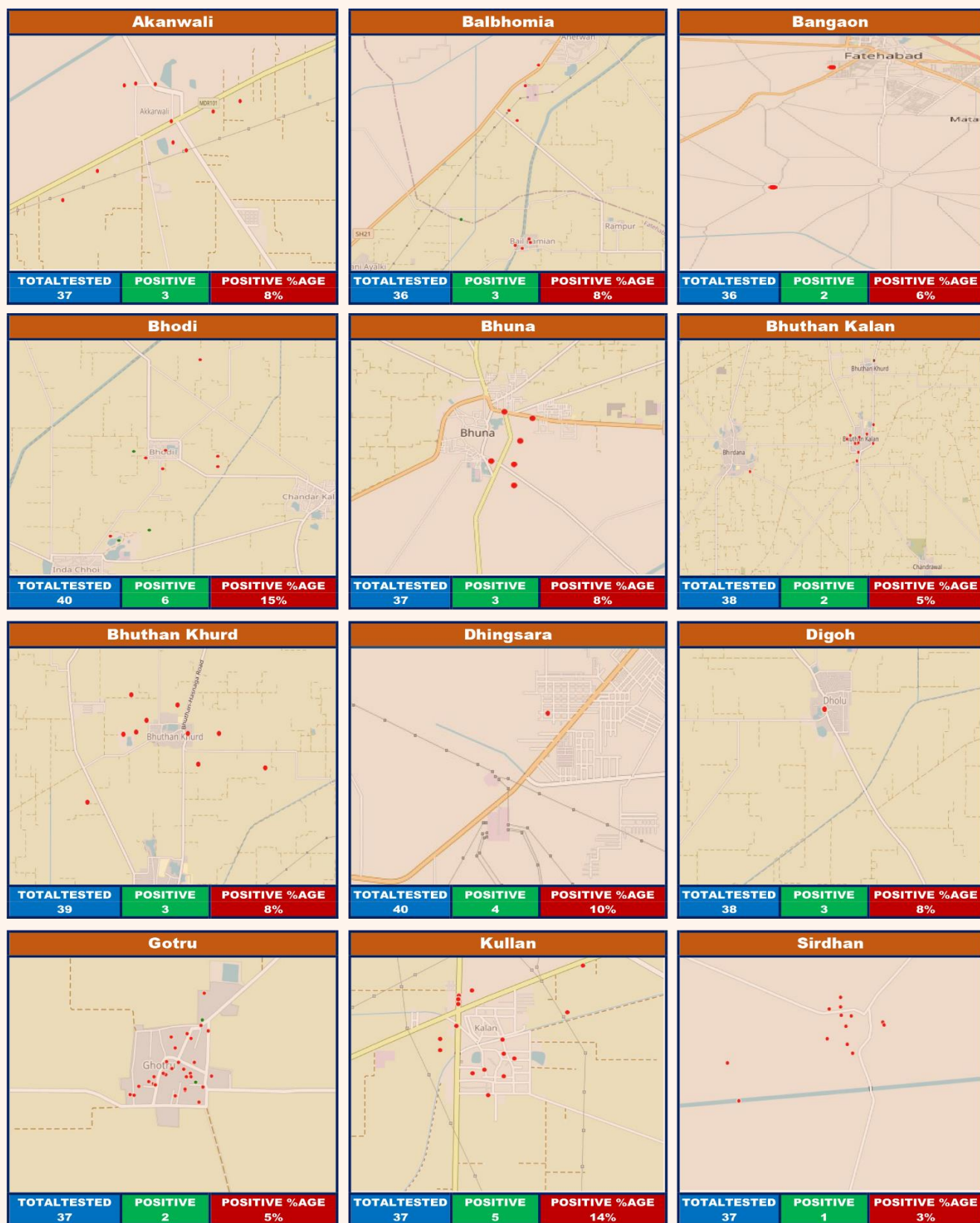


Table 1: Villages/ areas covered in District Fatehabad

Rural clusters	No. of samples collected
Bangaon	36
Dhingsara	40
Sirdhan	37
Bhuna	37
Digoh	38
Gotru	37
Kullan	37
Akanwali	37
Bhodi	40
Bhuthan Kalan	39
Bhuthan Khurd	39
Balbhomia	36
Urban clusters	No. of samples collected
Huda Polyclinic	74
Ashok Nagar	80
Raj Nagar	75
Ratia	74
Total 16 clusters	756

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	51	6.7 %
No	705	93.3 %
Total	756	100 %

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	362	47.8%
Male	394	51.2%
Transgender	0	0%
Total	756	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	43	14.346
Male	48.42	15.118
Transgender	0	0
Total	45.79	14.986

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	280	37.03 %
Govt. Office	26	3.4 %
Health care worker	45	5.9 %
Labour/ Farmer	121	16.1 %
Private job/ business	98	12.8 %
Non-working	62	8.2 %
Any other	31	4.1 %
Senior citizen (60 years and above)	74	9.7 %
Student	19	2.5 %
Total	756	100 %

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	26	3.3 %
Hypertension	22	2.8 %
Respiratory disease	5	0.6 %
Heart disease	9	1.1 %
Thyroid disease	3	0.39 %
Kidney disease	2	0.2 %
Any other	4	0.5 %
No known illness	710	92.6 %

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	9	1.2 %
No	747	98.8 %
Total	756	100 %

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	283	37.4 %
No	473	62.6 %
Total	756	100 %

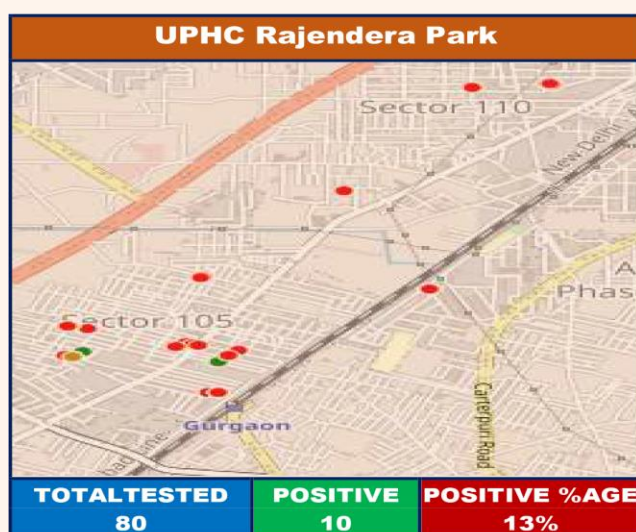
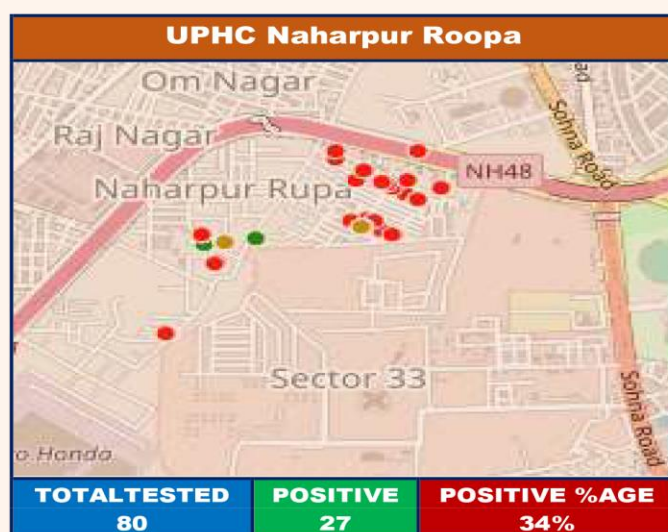
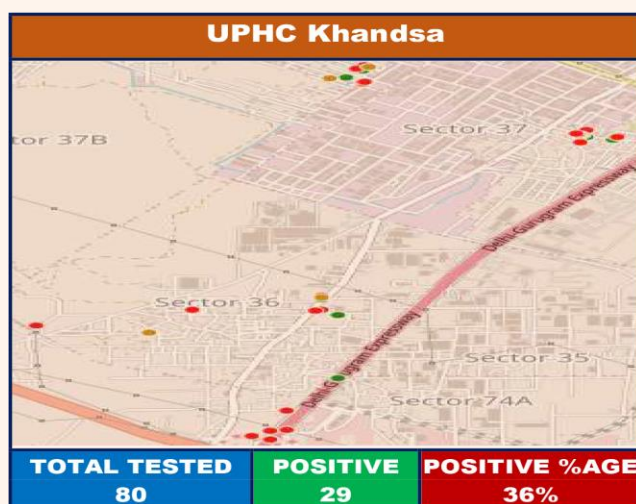
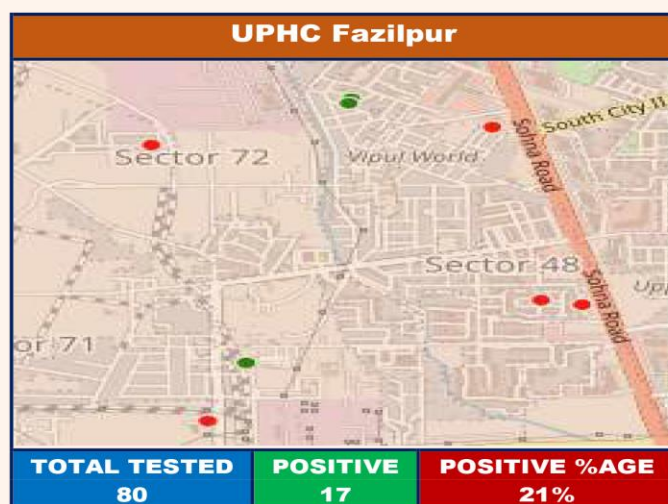
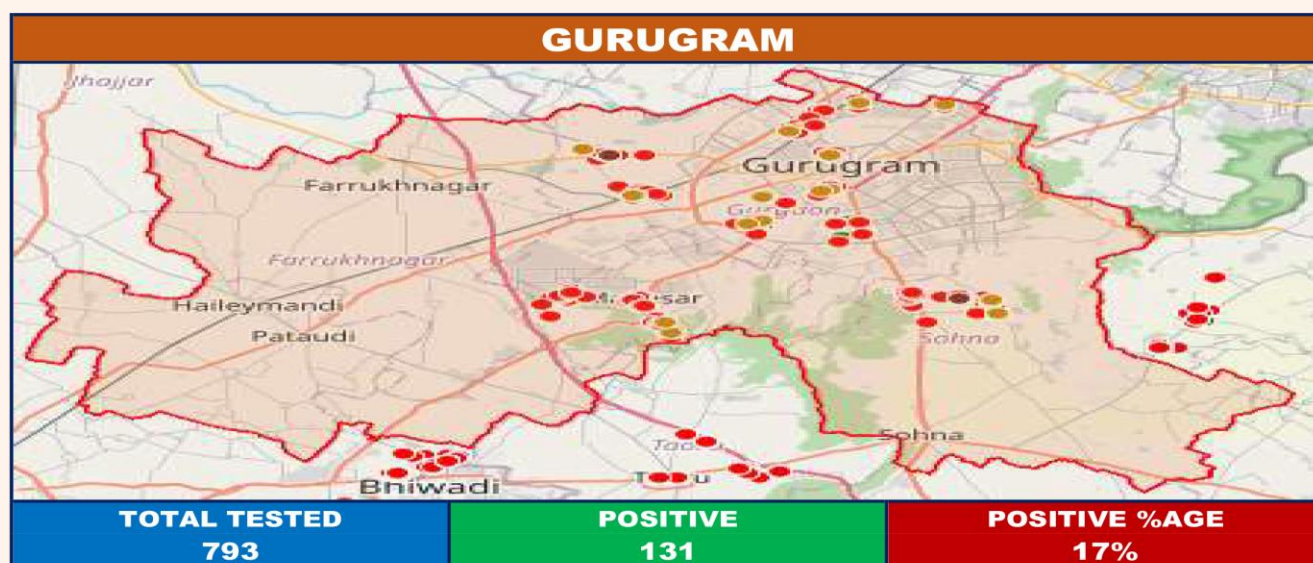
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	276	36.5 %
No	480	63.5 %
Total	756	100 %

Table 10: History of any previous COVID-19 tests done among participants

Test result	Frequency	Percentage
Not tested	686	90.8 %
Positive	6	0.7 %
Negative	63	8.3 %
Awaited	1	0.2 %
Total	756	100 %

GURUGRAM



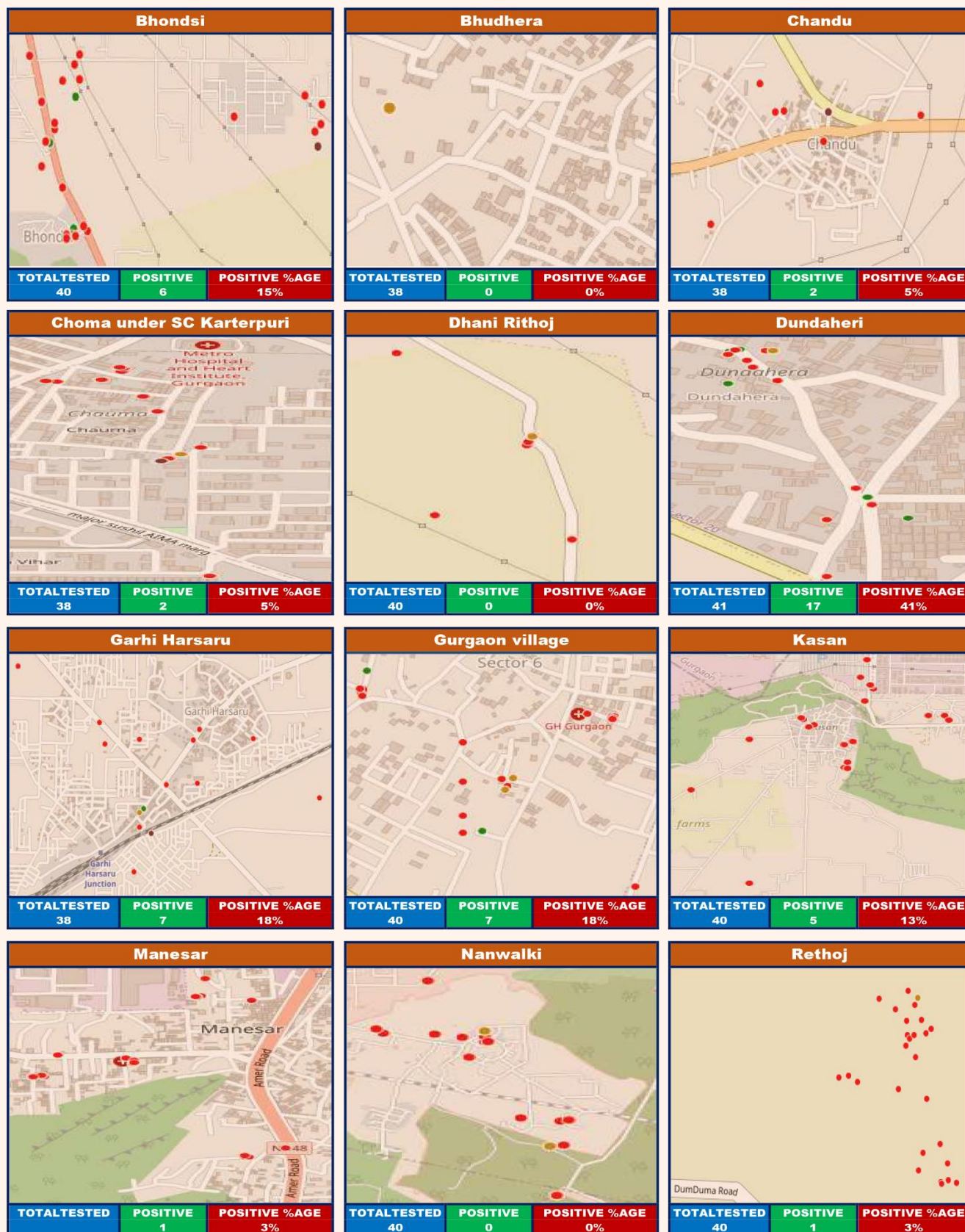


Table 1: Villages/ areas covered in District Gurugram

Rural clusters	No. of samples collected
Gurgaon village	40
Garhi Harsaru	40
Bhondsi	40
Kasan	40
Dundaheeri	41
Chandu	39
Rethoj	40
Manesar	40
Choma under SC Karterpuri	39
Bhudhera	40
Dhani Rithoj	41
Nanwalki	40
Urban clusters	No. of samples collected
Fazilpur	80
Khandsa	80
Naharpur Roopa	80
Rajendera Park	80
Total 16 clusters	800

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	48	6 %
No	752	94 %
Total	800	100 %

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	487	60.9 %
Male	313	39.1 %
Transgender	0	0 %
Total	800	100 %

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	36.87	11.646
Male	44.22	16.541
Transgender	0	0
Total	39.74	14.221

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	381	47.6 %
Govt. Office	24	3 %
Health care worker	39	4.9 %
Labour/ Farmer	40	5 %
Private job/ business	207	25.9 %
Non- working	31	3.9 %
Any other	5	0.6 %
Senior citizen (60 years and above)	58	7.2 %
Student	15	1.9 %
Total	800	100 %

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	22	2.7%
Hypertension	33	4.1%
Respiratory disease	6	0.7 %
Heart disease	8	1 %
Thyroid	10	1.2 %
Any other	6	0.7 %
Kidney disease	1	0.12 %
No known illness	729	91.1%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	79	9.9 %
No	721	90.1 %
Total	800	100 %

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	635	79.4 %
No	165	20.6 %
Total	800	100 %

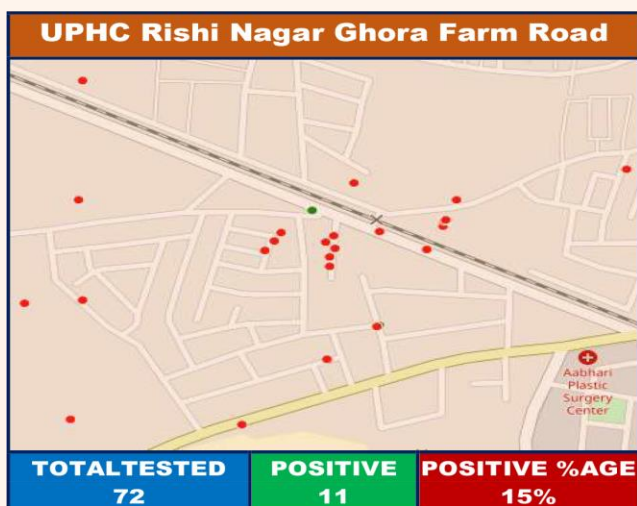
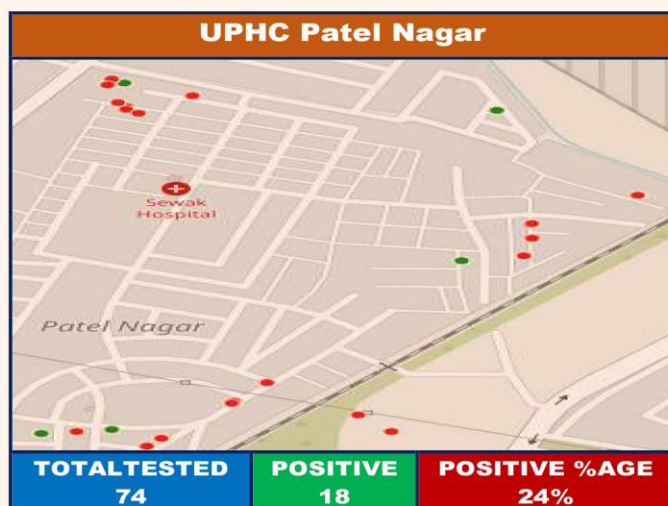
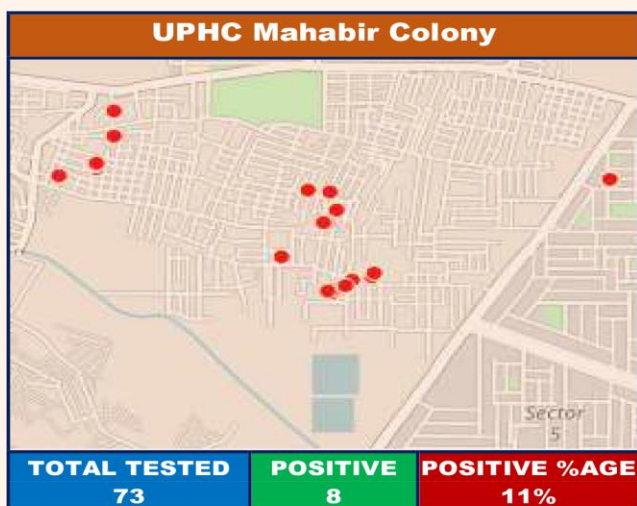
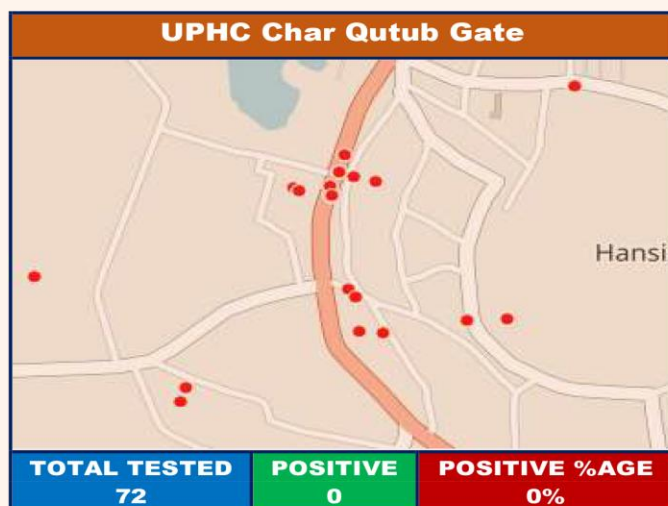
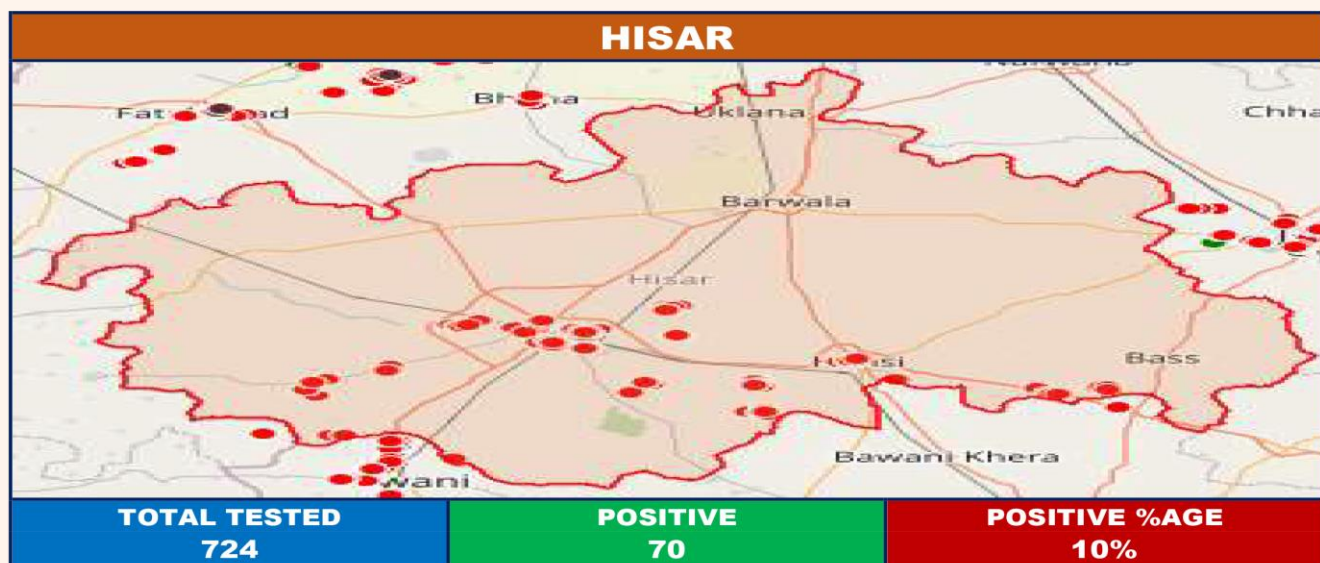
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	627	78.4 %
No	173	21.6 %
Total	800	100 %

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	632	79 %
Positive	22	2.8 %
Negative	146	18.2 %
Total	800	100 %

HISAR



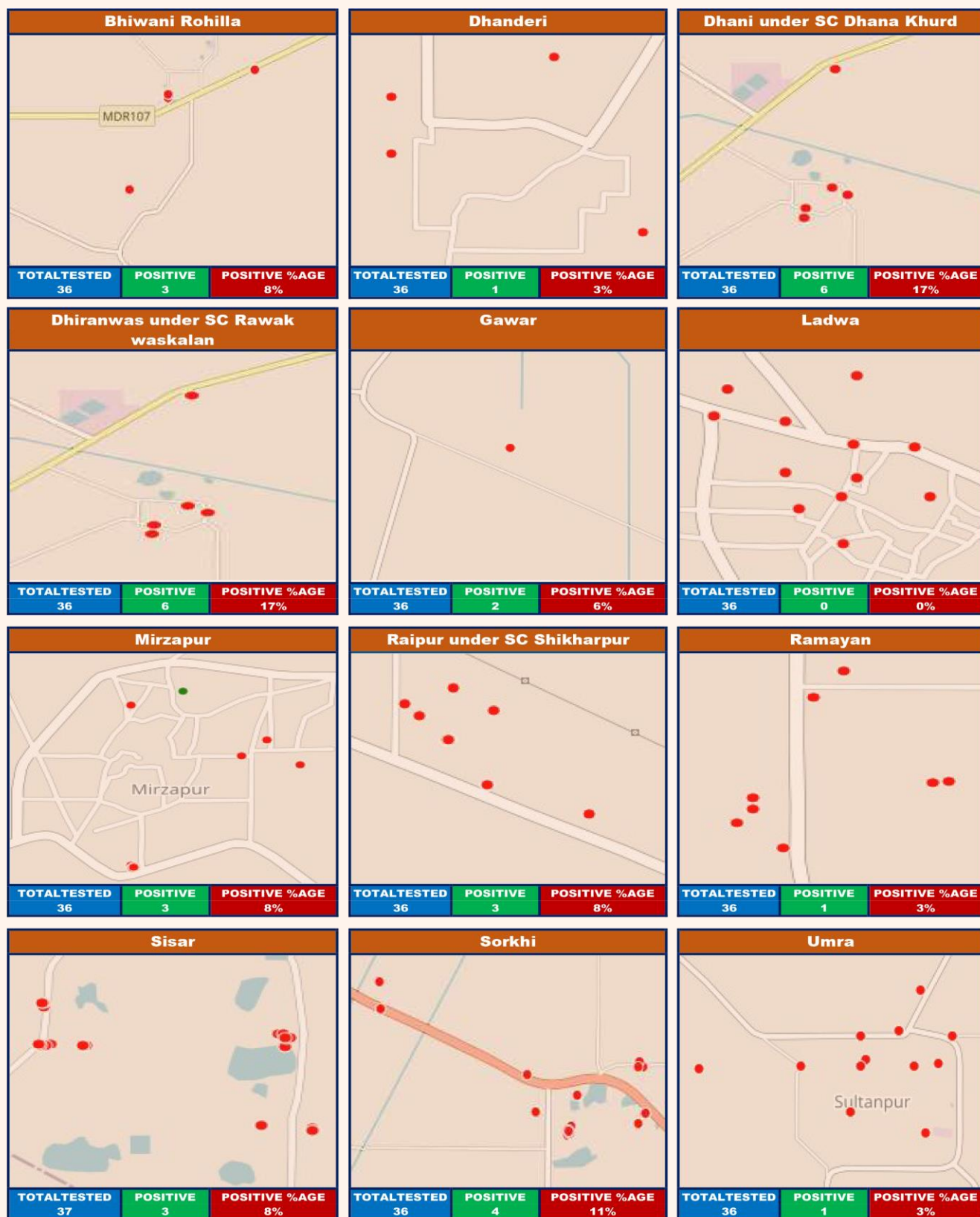


Table 1: Villages/ areas covered in District Hisar

Rural clusters	No. of samples collected
Gawar	36
Ladwa	36
Umra	36
Sorkhi	36
Bhiwani Rohilla	36
Mirzapur	36
Dhanderi	36
Sisar	37
Dhiranwas	36
Raipur	36
Ramayan	36
Dhani	36
Urban clusters	No. of samples collected
Char Qutub Gate	72
Mahabir Colony	73
Patel Nagar	74
Rishi Nagar Ghora Farm Road	72
Total 16 clusters	724

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	23	3.2 %
No	701	96.8 %
Total	724	100 %

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	377	47.9 %
Male	347	52.1 %
Transgender	0	0 %
Total	724	100 %

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	39.63	12.049
Male	45.63	14.841
Transgender	0	0
Total	42.50	13.778

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	294	40.7 %
Govt. Office	38	5.2 %
Health care worker	12	1.7 %
Labour/ Farmer	145	20 %
Private job/ business	59	8.1 %
Non-working	82	11.3 %
Any other	35	4.8 %
Senior citizen (60 years and above)	35	4.8 %
Student	24	3.3 %
Total	724	100 %

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	18	2.4 %
Hypertension	16	2.2 %
Respiratory disease	2	0.3 %
Heart disease	9	1.2 %
Thyroid disease	4	0.55 %
Kidney disease	1	0.13 %
Any other	2	0.27 %
No known illness	686	94.6 %

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	13	1.8 %
No	711	98.2 %
Total	724	100 %

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	437	60.3 %
No	287	39.7 %
Total	724	100 %

Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	381	52.6 %
No	343	47.4 %
Total	724	100 %

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	575	79.3 %
Positive	0	0 %
Negative	149	20.7 %
Total	724	100 %

JHAJJAR

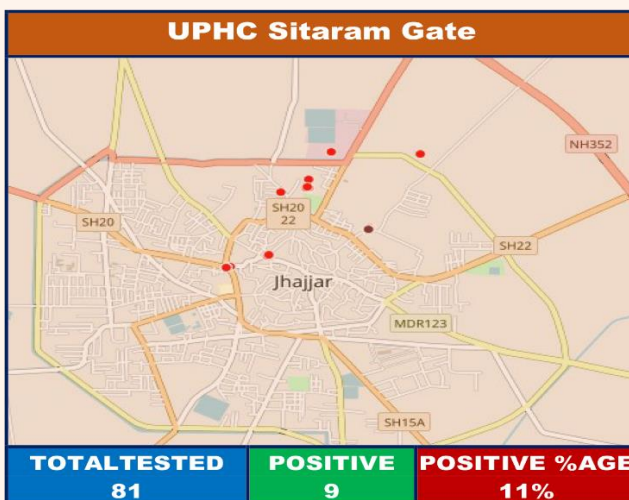
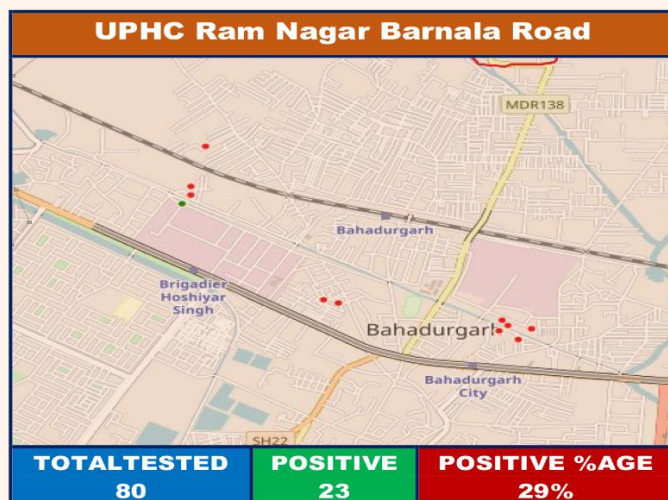
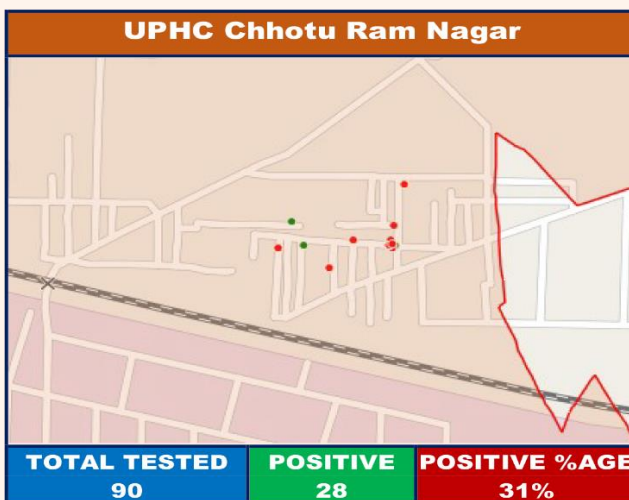
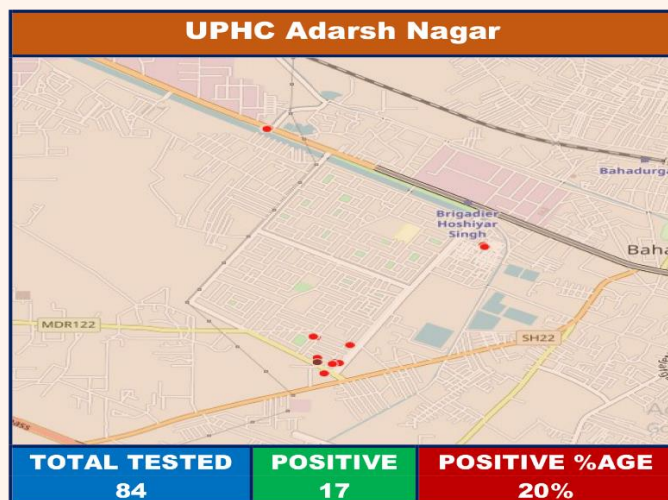
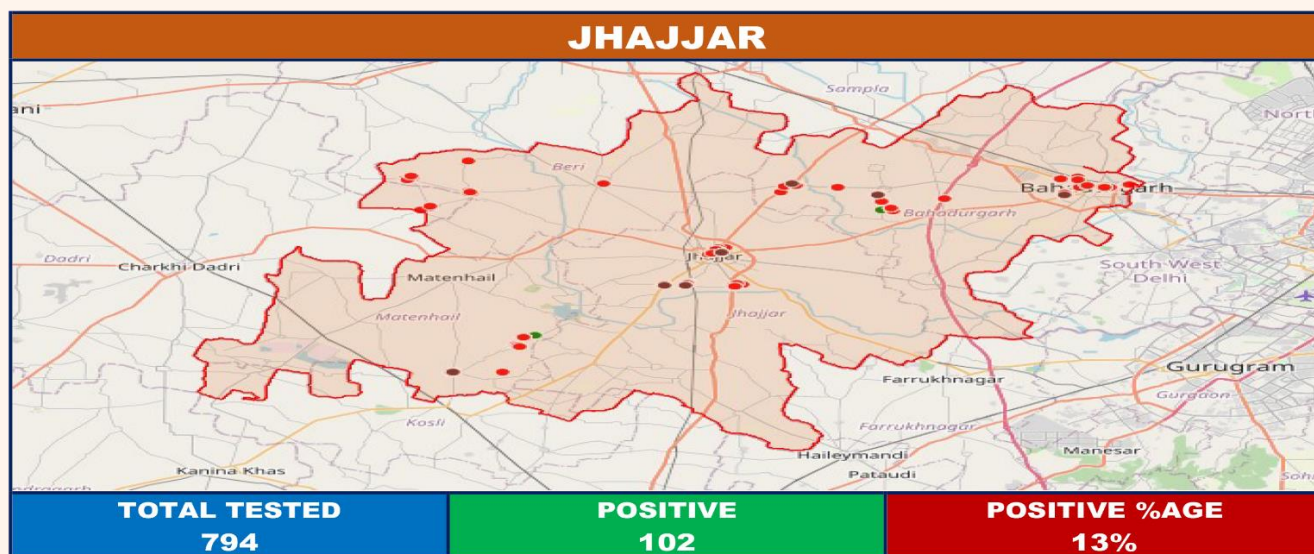




Table 1: Villages/ areas covered in District Jhajjar

Rural clusters	No. of samples collected
Chhara	41
Silani	36
Dubaldhan Majra	39
Salhawas	37
Kharman	41
Dawala	39
Siwana	40
Nilaheri	36
Silothi	41
Babra	40
Chimni	37
Kondhrawali	38
Urban clusters	No. of samples collected
Adarsh Nagar	85
Chhotu Ram Nagar	90
UPHC Ram Nagar Barnala Road	80
UPHC Sitaram Gate	83
Total 16 clusters	803

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	1	0.1 %
No	802	99.9 %
Total	803	100 %

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	403	50.2 %
Male	400	49.8 %
Transgender	0	0 %
Total	803	100 %

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	42.02	13.180
Male	47.88	16.327
Transgender	0	0
Total	44.94	15.109

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	392	48.8 %
Govt. Office	36	4.5 %
Health care worker	44	5.5 %
Labour/ Farmer	92	11.5 %
Private job/ business	93	11.6 %
Non-working	51	6.4 %
Any other	19	2.4 %
Senior citizen (60 years and above)	53	6.6 %
Student	23	2.9%
Total	803	100 %

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	17	2.1%
Hypertension	16	1.9 %
Respiratory disease	6	0.7 %
Heart disease	5	0.62 %
Thyroid disease	2	0.24 %
Kidney disease	2	0.24 %
Any other	3	0.37 %
No known illness	762	94.8 %

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	43	5.4 %
No	760	94.6 %
Total	803	100 %

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	566	70.5 %
No	237	29.5 %
Total	803	100 %

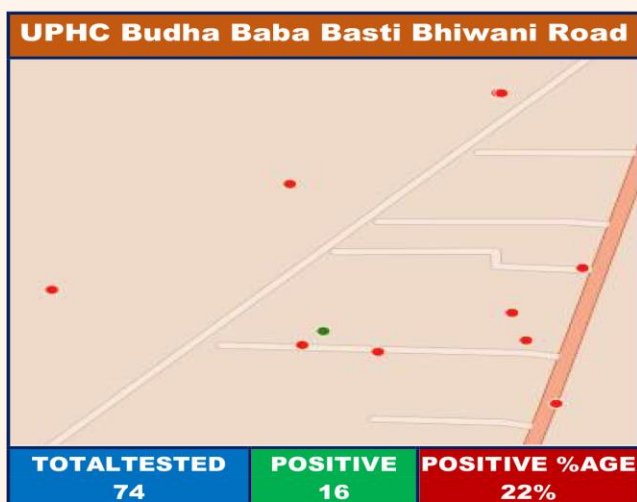
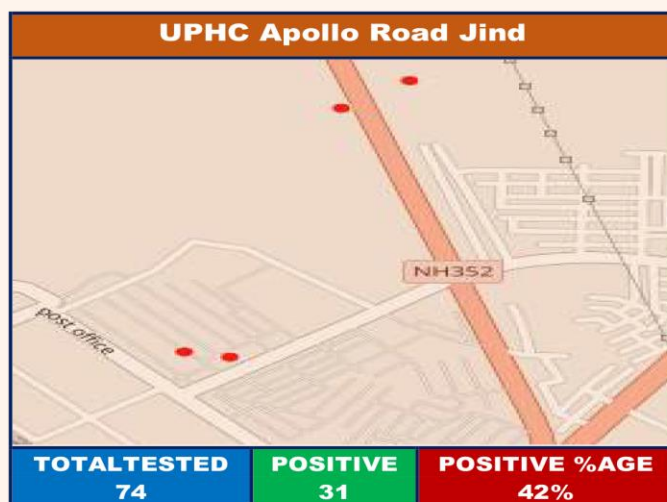
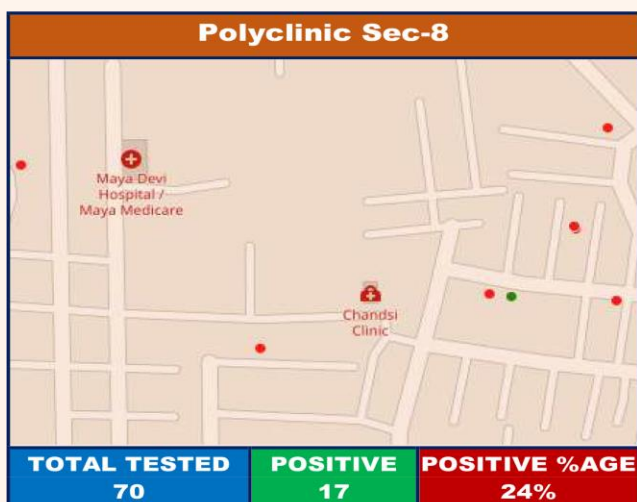
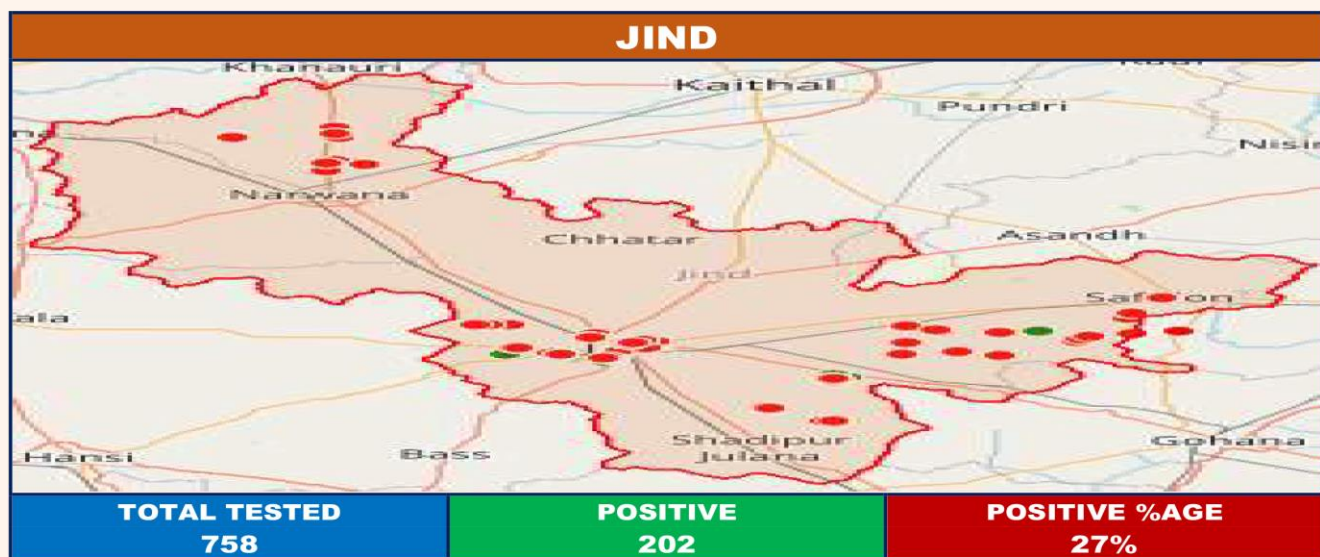
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	533	66.4 %
No	270	33.6 %
Total	803	100 %

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	530	66 %
Positive	2	0.2 %
Negative	270	33.6 %
Awaited	1	0.1 %
Total	803	100 %

JIND





1: Villages/ areas covered in District Jind

Rural clusters	No. of samples collected
Nidhana	36
Hat	38
Ujhana	36
Dariyawala	50
Lajwana Khurd	36
Bhutani	38
Kharal	36
Ikas	38
Ramkali	39
Kalawati	40
Surajkhera	41
Intal Kalan	38
Urban clusters	No. of samples collected
Budha Baba Basti Bhiwani Road	74
Apollo Road Jind	74
Polyclinic Sec-8	70
Patiala Chowk	74
Total 16 clusters	758

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	2	0.3%
No	756	99.7%
Total	758	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	379	50.1%
Male	377	49.6%
Transgender	2	.0026%
Total	758	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	41.51	13.72
Male	48.17	16.19
Transgender	60	0.00
Total	44.86	15.16

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
House wife	343	45.4%
Govt. Office	18	2.4%
Health care worker	31	4.1%
Labour/farmer	150	19.8%
Private job/business	59	7.7%
Non-working	27	3.5%
Any other	13	1.7%
Senior citizen (60 yrs and above)	77	10.1%
Student	40	5.2%
Total	758	100

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	7	0.91%
Hypertension	10	1.3%
Respiratory diseases	6	0.78%
Heart diseases	5	0.65%
Thyroid	0	0%
Any other	15	1.95%
Kidney disease	1	0.01%
No known illness	718	94.2%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	59	7.7%
No	699	92.3%
Total	758	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	445	58.9%
No	313	41.1%
Total	758	100%

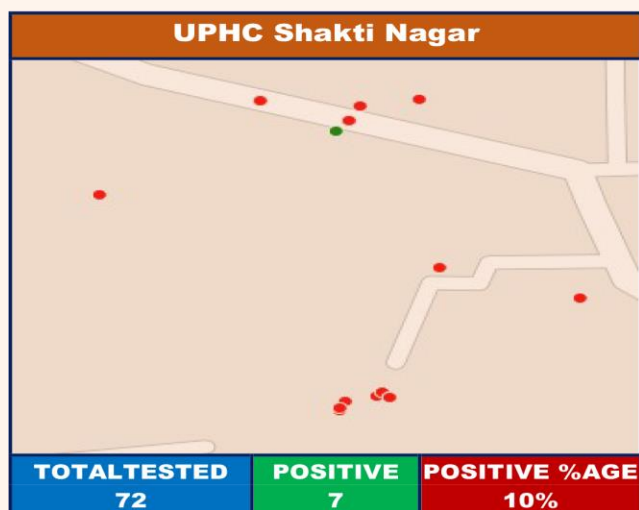
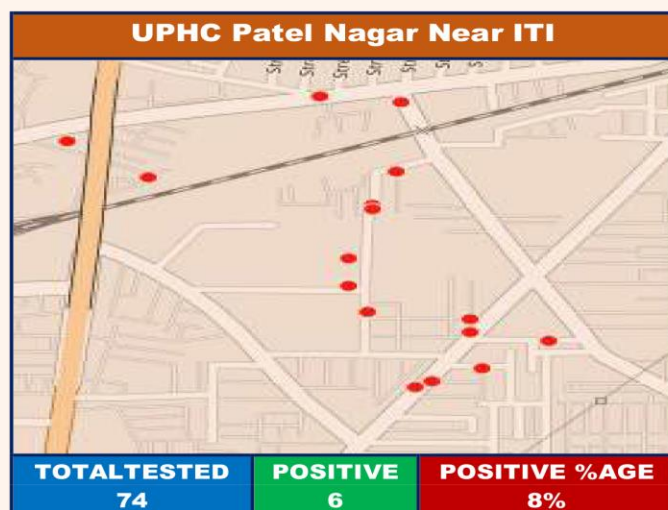
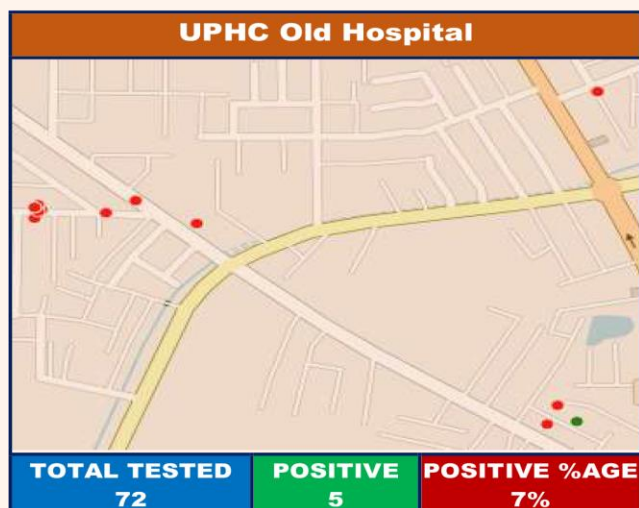
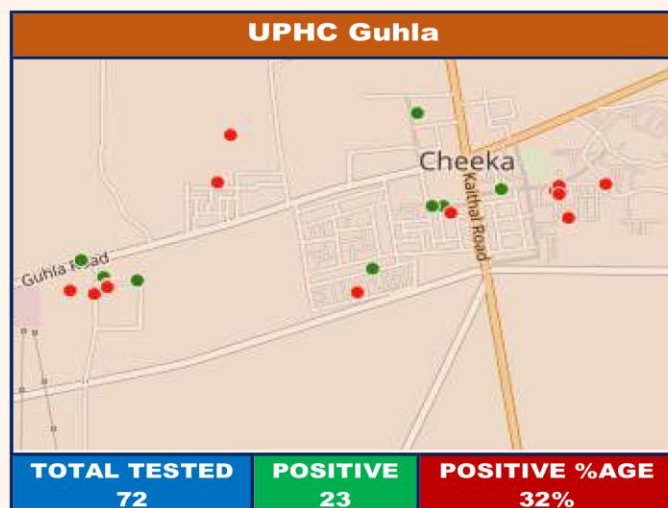
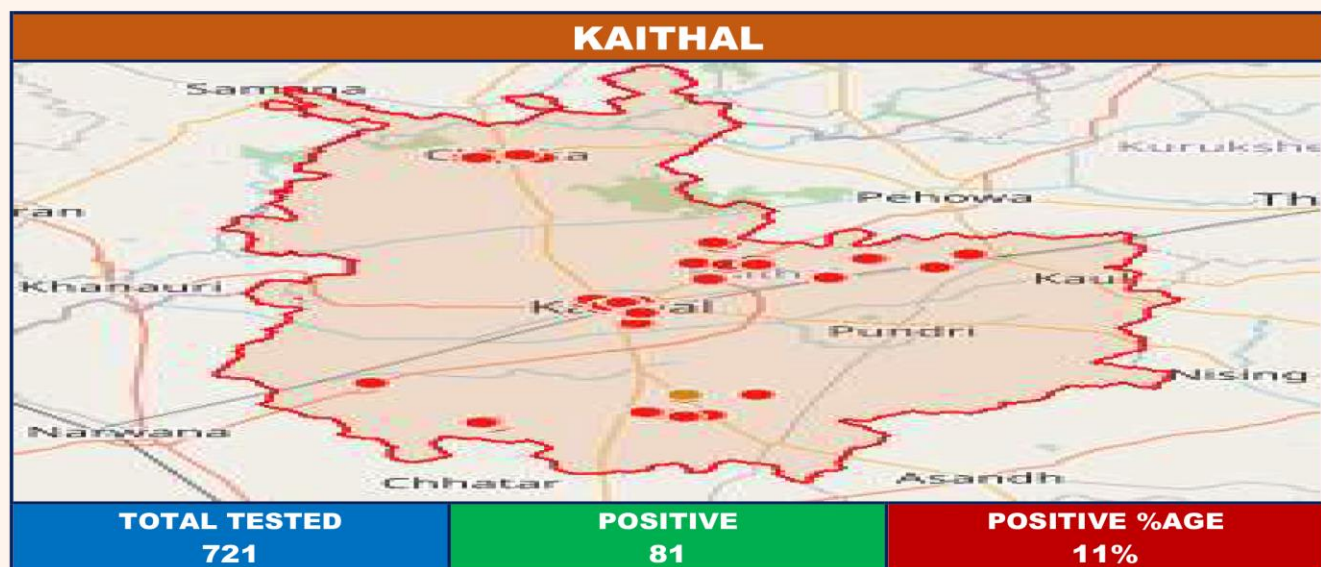
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	426	56.4%
No	332	43.6%
Total	758	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	394	51.9 %
Positive	0	0%
Negative	364	48.1%
Total	758	100%

KAITHAL



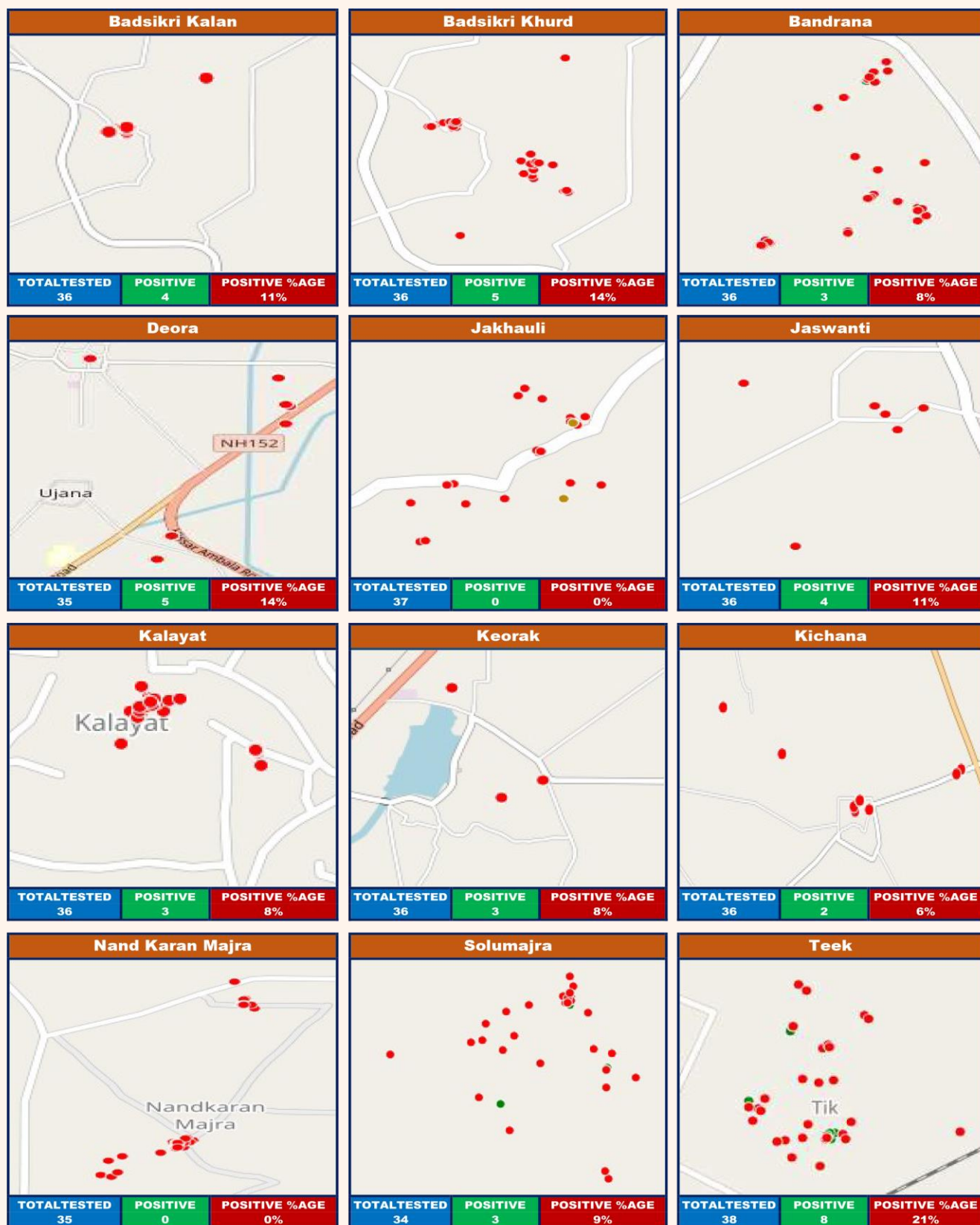


Table 1: Villages/ areas covered in District Kaithal

Rural clusters	No. of samples collected
Kalayath	36
Teek	38
Jakhauli	37
Keorak	36
Badsikri Khurd	36
Bandrana	36
Nand Karan Majra	35
Deora	35
Badsikri Kalan	36
Solumajra	34
Kichana	36
Jaswanti	36
Urban clusters	No. of samples collected
Old Hospital	72
Guhla	72
Patel Nagar Near ITI	74
Shakti Nagar	72
Total 16 clusters	721

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	1	0.2%
No	720	99.8%
Total	721	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	388	53.44%
Male	333	46.55%
Transgender	0	0
Total	721	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	41.76	14.03
Male	47.54	16.45
Transgender	0	0
Total	43.52	15.03

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
House wife	287	39.5%
Govt. Office	12	1.7%
Health care worker	35	4.8%
Labour/farmer	205	28.2%
Private job/business	85	11.8%
Non-working	27	4.3%
Any other	6	0.8%
Senior citizen (60 years and above)	55	7.6%
Student	9	1.2%
Total	721	100

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	4	0.55%
Hypertension	2	0.27%
Respiratory diseases	3	0.41%
Heart diseases	1	0.13%
Thyroid	0	0%
Any other	18	2.4%
Kidney disease	0	0%
No known illness	698	96.14%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	5	0.7%
No	716	99.3%
Total	721	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	335	46.1%
No	386	53.9%
Total	721	100%

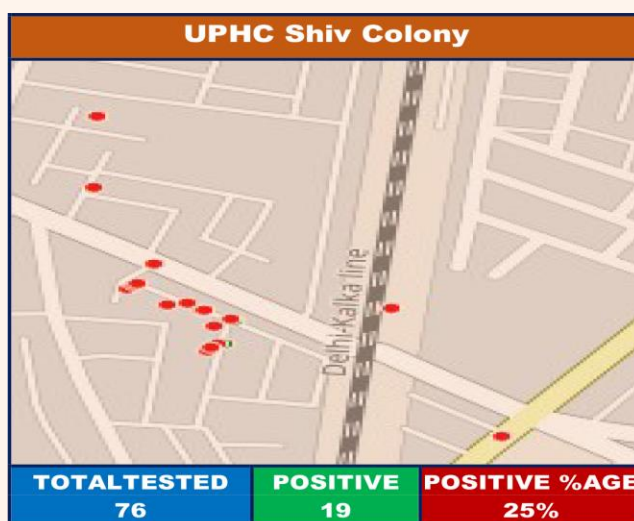
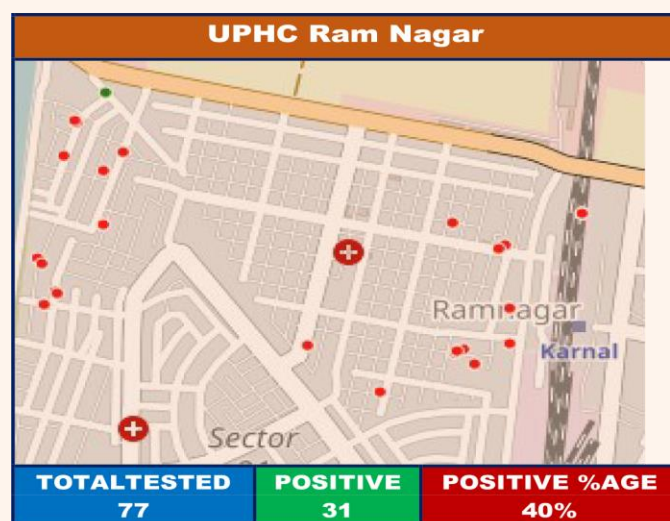
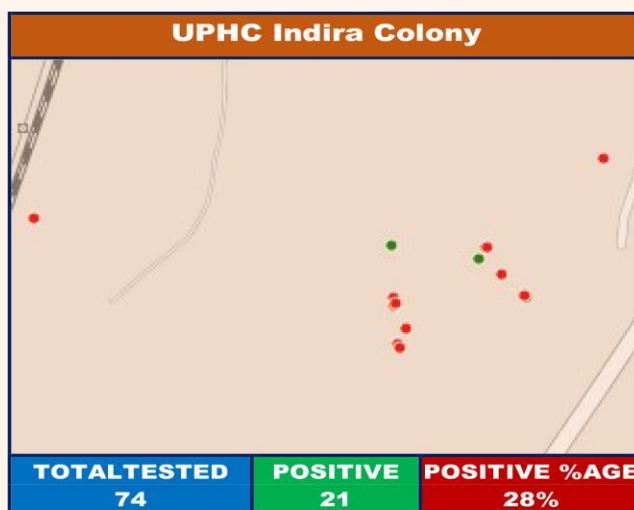
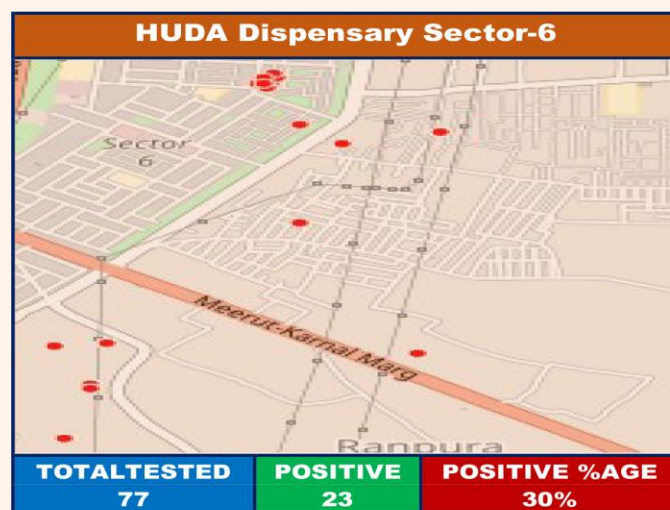
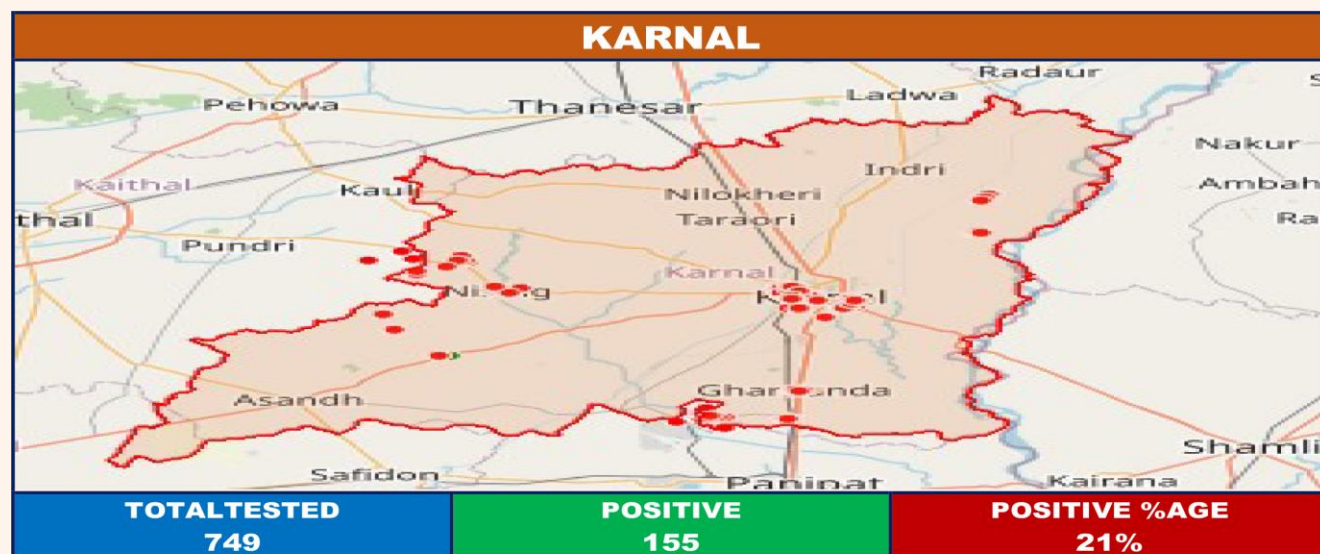
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	371	51.1%
No	350	48.9%
Total	721	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	712	98.8%
Positive	2	0.3%
Negative	7	0.9%
Total	721	100%

KARNAL



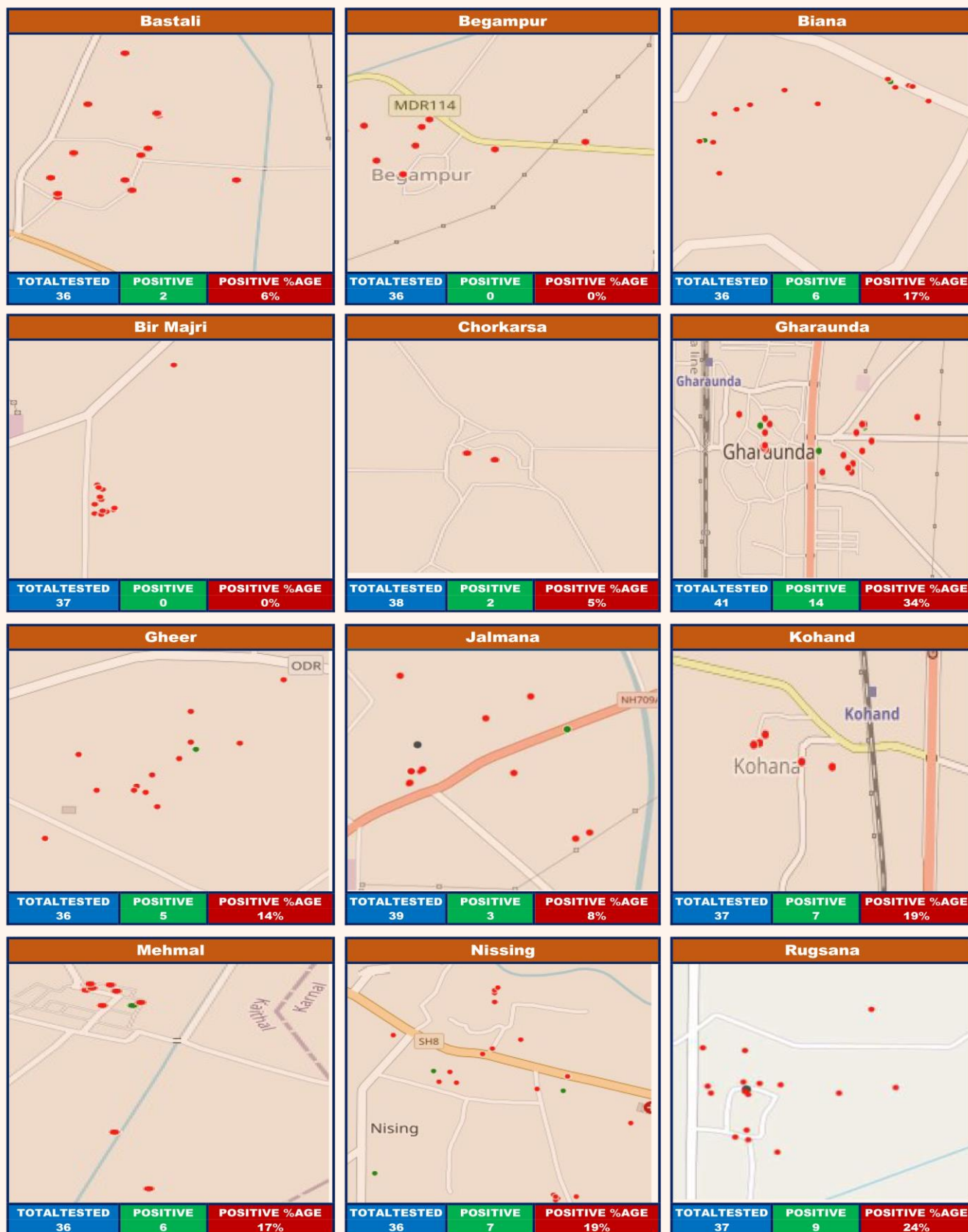


Table 1: Villages/ areas covered in District Karnal

Rural clusters	No. of samples collected
Jalmana	39
Gharaunda	41
Gheer	36
Nissing	36
Chorkarsa	38
Kohand	37
Biana	36
Bastali	36
Rugsana	37
Begampur	36
Bir Majri	37
Mehmal	36
Urban clusters	No. of samples collected
HUDA Sector-6	77
Indira Colony	74
Ram Nagar	77
Shiv Colony	76
Total 16 clusters	749

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	1	0.1%
No	748	99.9%
Total	749	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	498	66.4%
Male	251	33.6%
Transgender	0	0
Total	749	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	39.27	12.86
Male	49.12	15.93
Transgender	0	0
Total	42.58	14.71

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
House wife	452	60.3%
Govt. Office	3	0.4%
Health care worker	12	1.6%
Labour/farmer	118	15.9%
Private job/business	55	7.3%
Non-working	48	6.4%
Any other	15	2.0%
Senior citizen (60 years and above)	37	4.9%
Student	9	1.2%
Total	749	100

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	19	2.5%
Hypertension	10	1.3%
Respiratory diseases	2	0.26%
Heart diseases	3	0.4%
Thyroid	5	0.66%
Any other	10	1.33%
Kidney disease	1	0.01%
No known illness	700	93.3%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	17	2.3%
No	732	97.7%
Total	749	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	501	68%
No	248	32%
Total	749	100%

Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	503	66.9%
No	246	33.1%
Total	749	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	734	98%
Positive	2	0.3%
Negative	13	1.7%
Total	749	100%

KURUKSHETRA

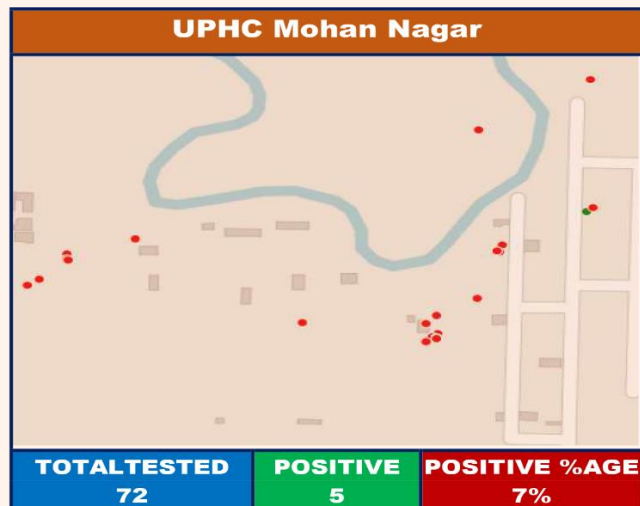
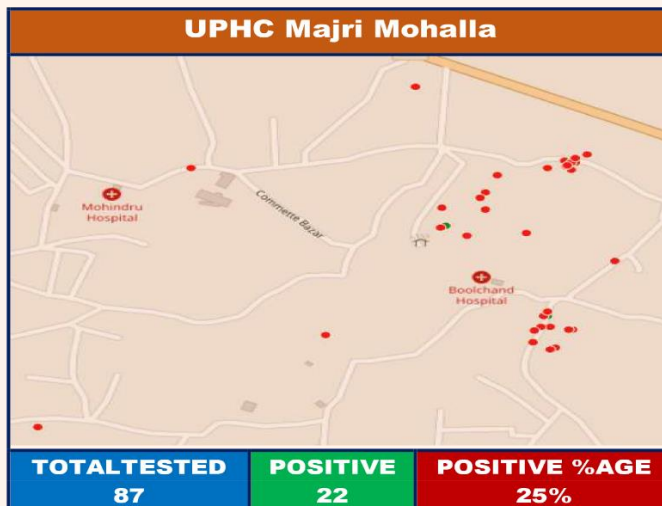
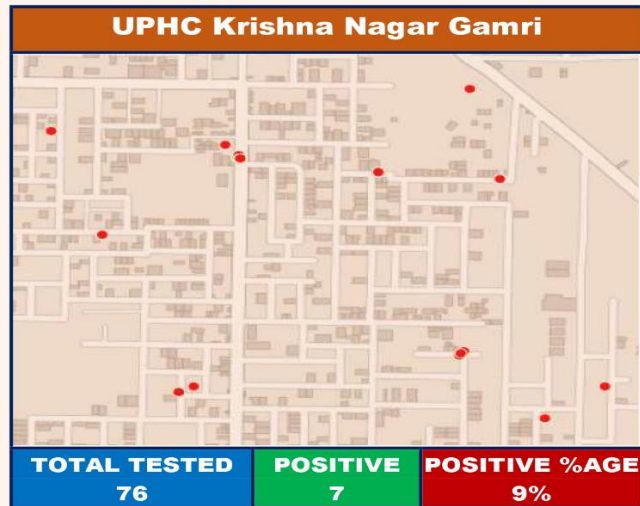
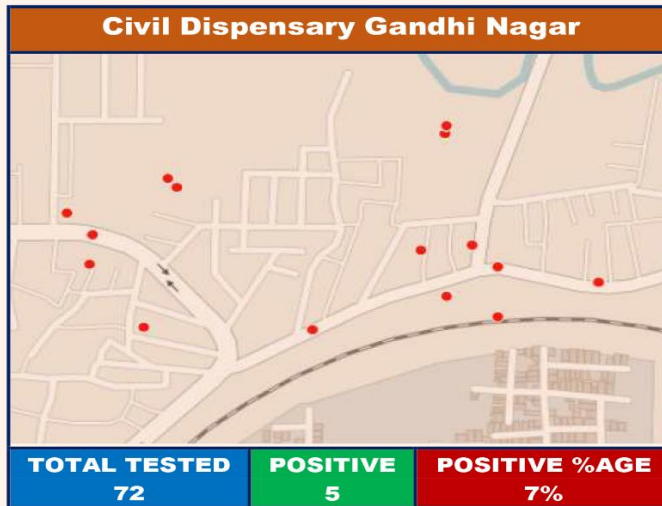
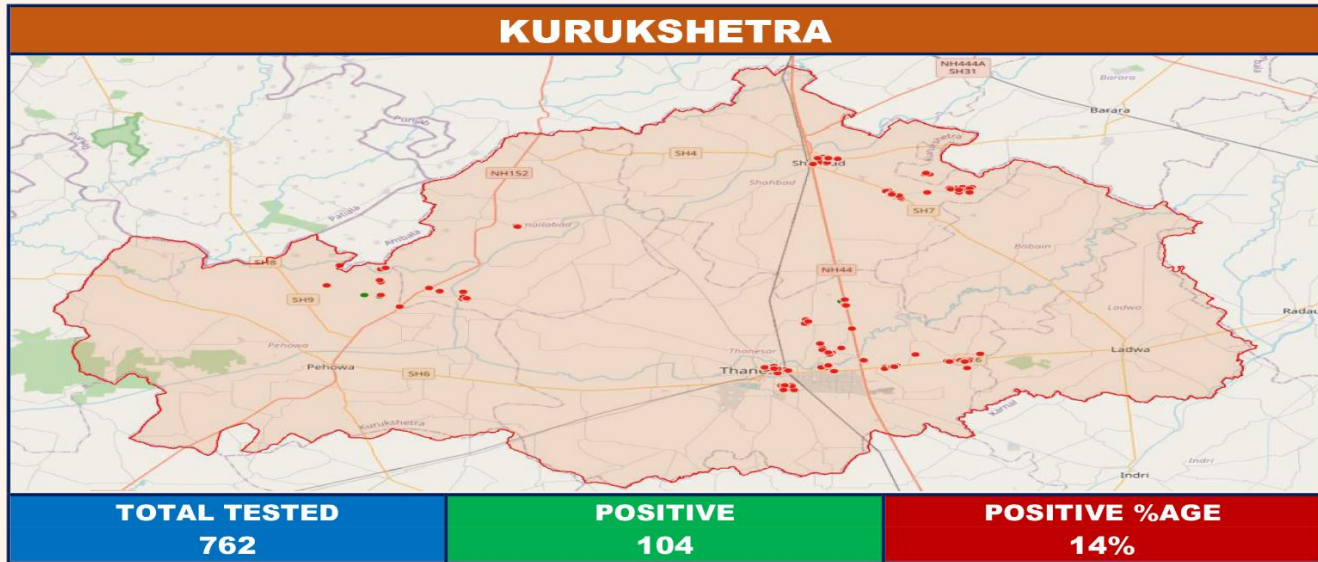




Table 1: Villages/ areas covered in District Kurukshetra

Rural clusters	No. of samples collected
Deeg	40
Jandheri	31
Yara	37
Thaska Miranji	39
Harigarh Bhorakh	37
Kanthala	40
Mathana	41
Sirsama	41
Bir Mathana	39
Khanpur Kohlian	37
Sirsla	35
Partapgarh	38
Urban clusters	No. of samples collected
Krishna Nagar Gamri	76
Majri Mohalla	87
Mohan Nagar	72
Civil Dispensary Gandhi Nagar	72
Total 16 clusters	762

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	0	0%
No	762	100%
Total	762	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	518	68.1%
Male	244	31.9%
Transgender	0	0%
Total	762	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	42.42	14.37
Male	44.62	16.02
Transgender	0	0
Total	43.12	14.94

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
House wife	459	60.4%
Govt. Office	22	2.9%
Health care worker	33	4.3%
Labour/farmer	84	11.1%
Private job/business	62	8.1%
Non-working	23	3%
Any other	2	0.3%
Senior citizen (60 years and above)	39	5.1%
Student	38	4.9%
Total	762	100

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	20	2.6%
Hypertension	29	3.7%
Respiratory diseases	1	0.01%
Heart diseases	1	0.01%
Thyroid	6	0.7%
Any other	10	1.3%
Kidney disease	0	0%
No known illness	701	91.2%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	3	0.4%
No	759	99.6%
Total	762	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	578	75.9%
No	184	24.1%
Total	762	100%

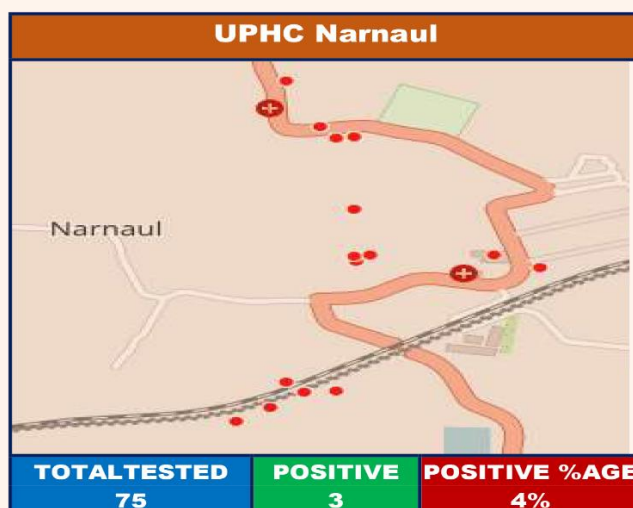
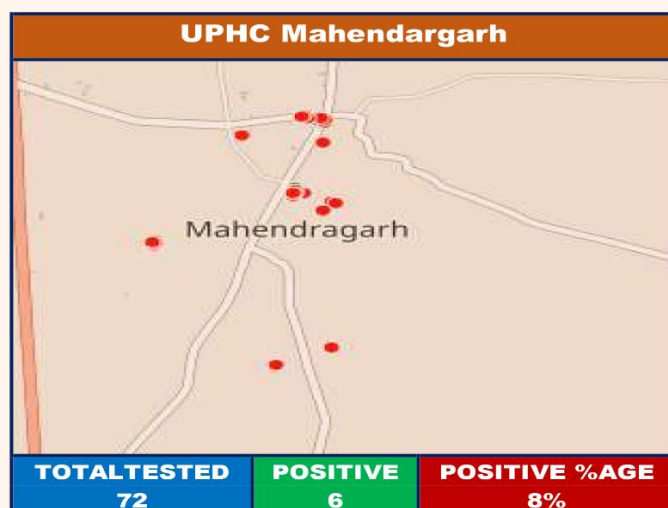
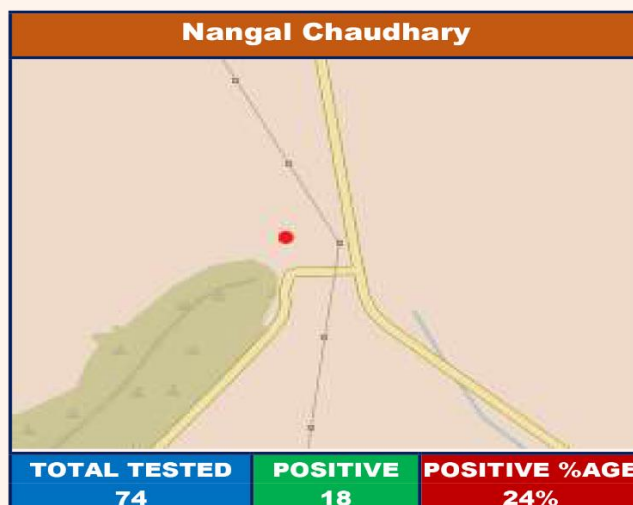
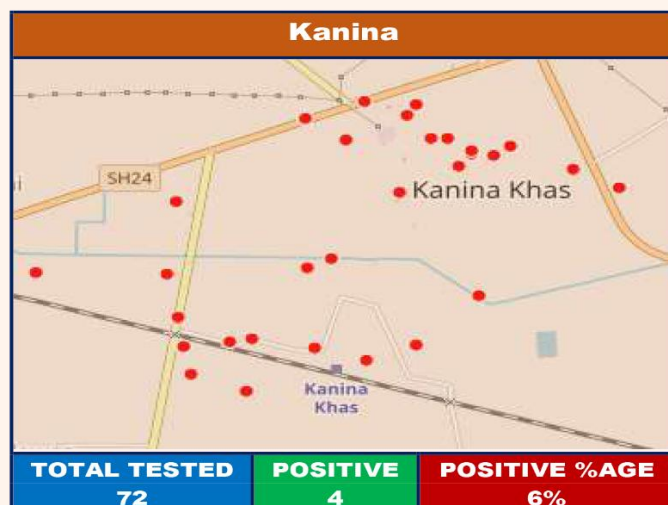
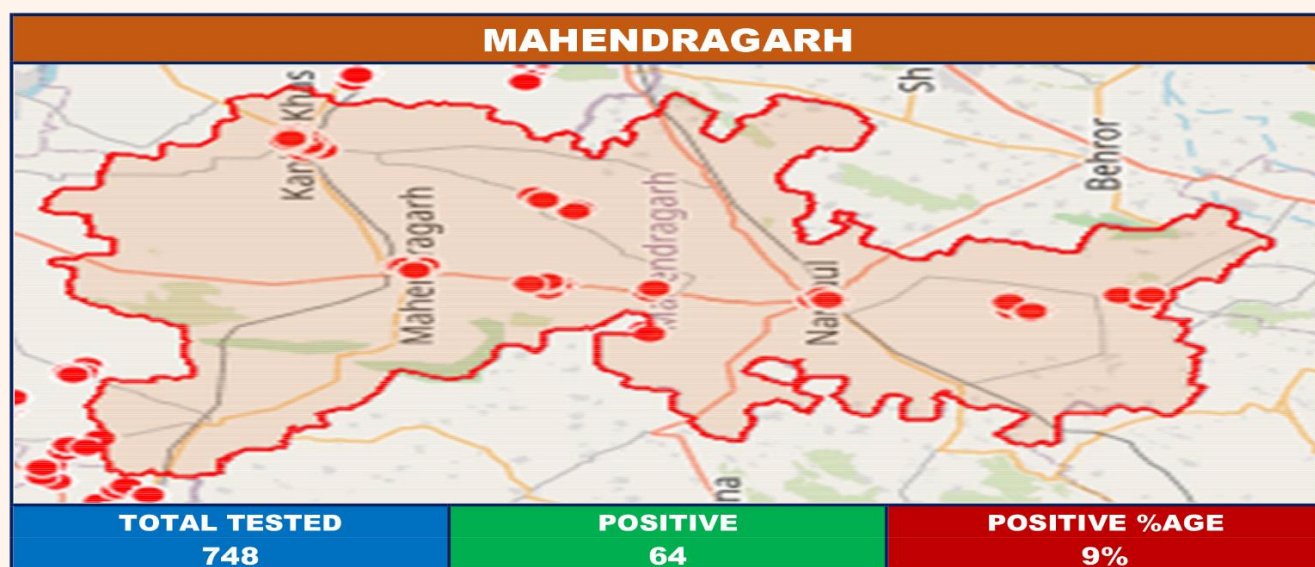
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	579	76.2%
No	183	23.8%
Total	762	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	747	98.1%
Positive	1	1.8%
Negative	14	0.1%
Total	762	100%

MAHENDRAGARH



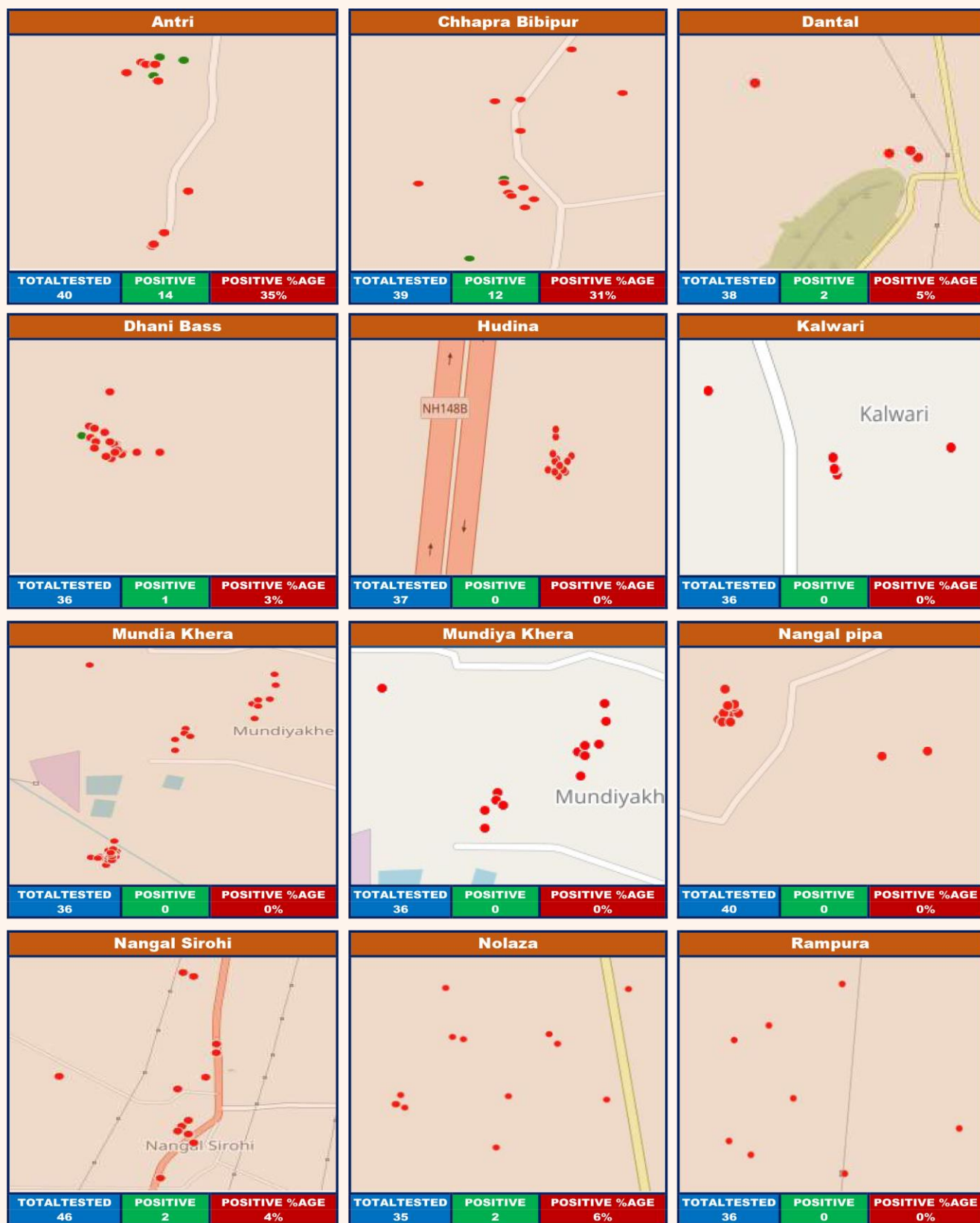


Table 1: Villages/ areas covered in District Mahendargarh

Rural clusters	No. of samples collected
Rampura	36
Hudina	37
Dhani Bass	36
Mundiya Khera	36
Kalwari	36
Mundiya Khera	36
Antri	40
Chhapra Bibipur	39
Nangal Pipa	40
Nangal Sirohi	46
Dantal	38
Nolaza	35
Kanina	72
Urban clusters	No. of samples collected
Mahendargarh	72
Narnaul	75
Nangal Chaudhary	74
Total 15 clusters	748

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	54	7.2%
No	694	92.8%
Do not know	0	0%
Total	748	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	329	44%
Male	419	56%
Transgender	0	0%
Total	748	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	43.93	15.463
Male	45.77	17.145
Transgender	0	0
Total	44.96	16.441

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	312	41.7%
Govt. Office	11	1.5%
Health care worker	25	3.3%
Labour/ farmer	130	17.4%
Private job/ business	55	7.4%
Non- working	98	13.1%
Any other	5	0.7%
Senior citizen (60 years and above)	61	8.2%
Student	51	6.8%
Total	748	100%

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	9	1.2%
Hypertension	29	3.87%
Respiratory disease	8	1.06%
Heart disease	2	4.16%
Thyroid	2	26.73%
Kidney disease	0	0%
Any other	2	0.26%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	49	6.6%
No	699	93.4%
Total	748	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	446	59.6%
No	302	40.4%
Total	748	100%

Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	425	56.8%
No	323	43.2%
Total	748	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	601	80.4%
Positive	1	0.1%
Awaited	1	0.1%
Negative	145	19.4%
Total	748	100%

NUH

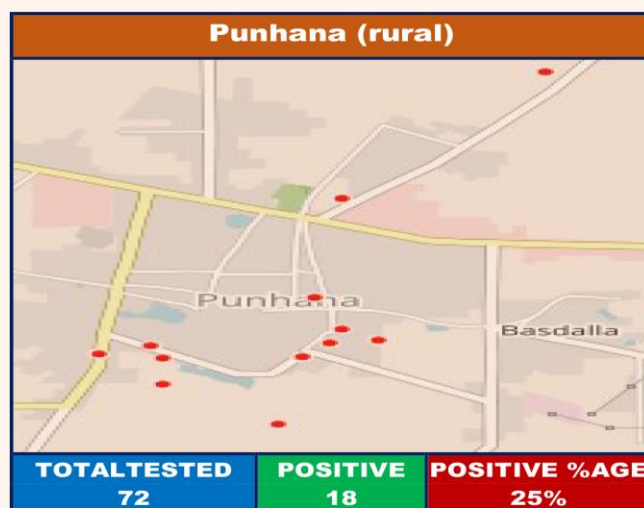
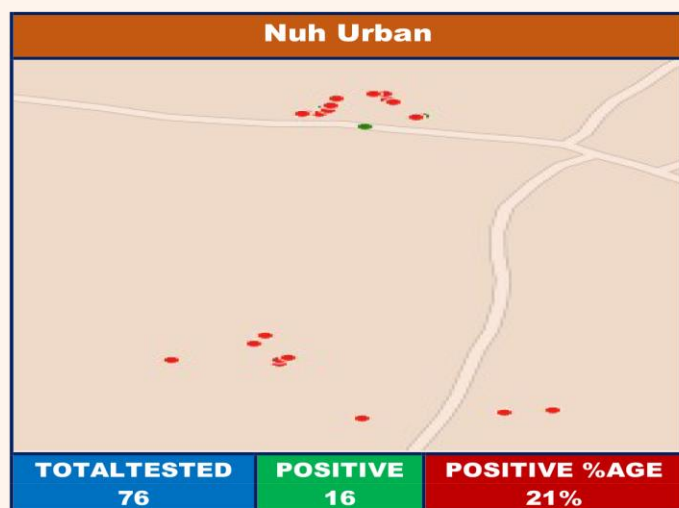
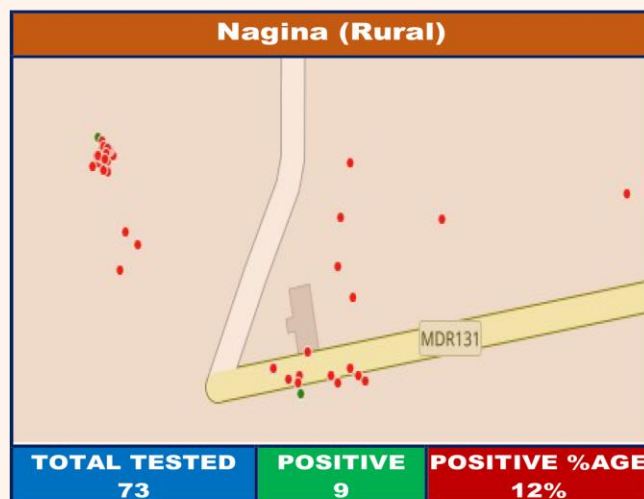
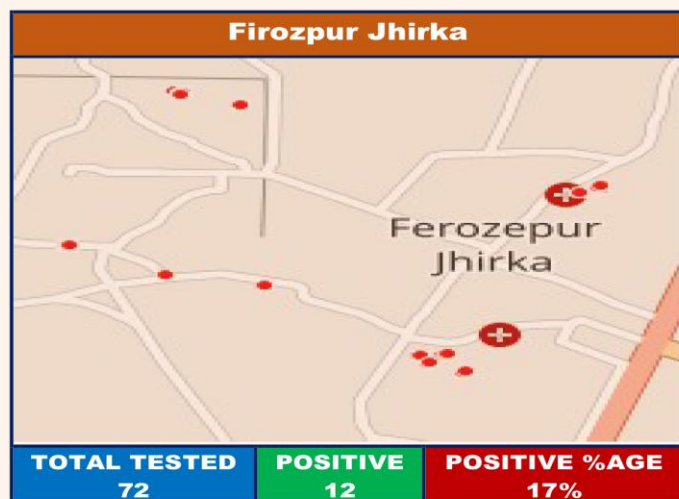
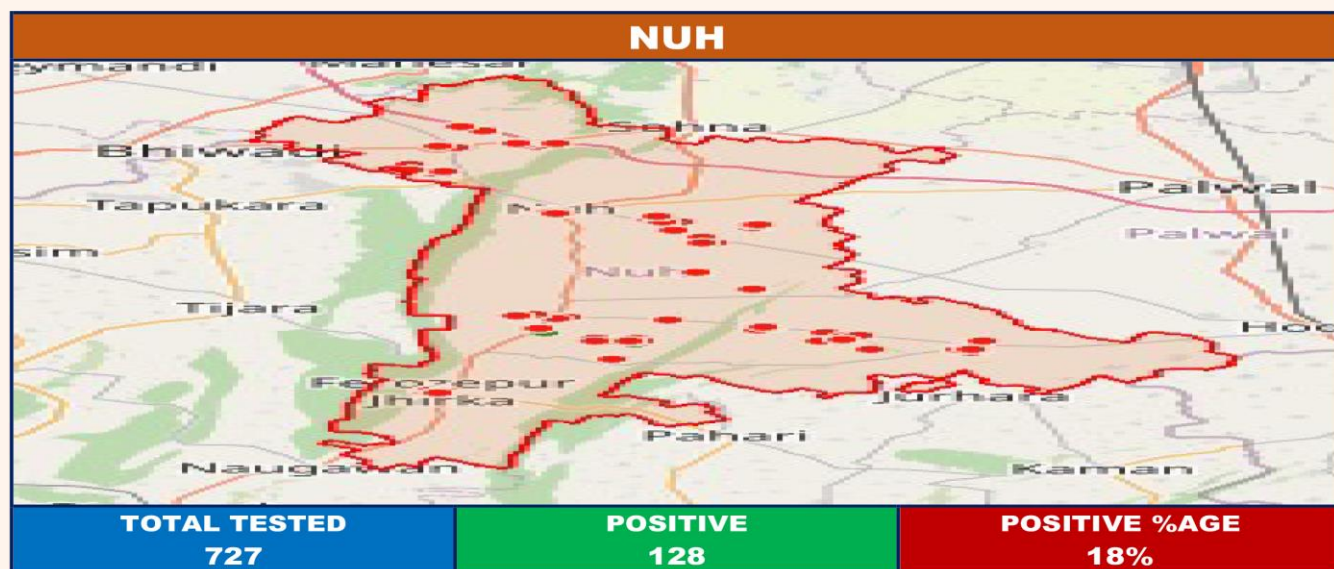




Table 1: Villages/ areas covered in District Nuh

Rural clusters	No. of samples collected
Marora	36
Mohlaka	36
Kultajpur	36
Sudaka	36
Tain	36
Sat Pariaka	36
Tauru	36
Kharkhari	36
Mundarka	36
Pinangwan	37
Shah Chokha	37
Falendi	36
Urban clusters	No. of samples collected
Nuh Urban	76
Punhana (rural)	72
Nagina (Rural)	73
Firozpur Jhirka	72
Total 16 clusters	727

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	105	14.4%
No	622	85.6%
Total	727	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	379	52.2%
Male	348	47.8%
Transgender	0	0%
Total	727	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	37.43	13.331
Male	37.44	14.649
Transgender	0	0
Total	37.43	13.967

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	272	37.5%
Govt. Office	2	3%
Health care worker	93	12.8%
Labour/ farmer	117	16.2%
Private job/ business	88	12.1%
Non- working	49	6.7%
Any other	29	4%
Senior citizen (60 years and above)	32	4.4%
Student	25	3.4%
Total	727	100%

Table 6: History of any chronic illness (multiple response)

Disease	Frequency	Percentage
Diabetes	8	1.09%
Hypertension	14	1.92%
Respiratory disease	2	27.47%
Heart disease	1	13.73%
Thyroid	6	82.41%
Kidney disease	0	0%
Any other	22	3.02%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	42	5.8%
No	685	94.2%
Total	727	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	302	41.5%
No	425	58.5%
Total	727	100%

Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	300	41.2%
Sometimes	427	58.8%
Total	727	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	634	87.2%
Positive	2	0.3%
Negative	91	12.5%
Total	727	100%

PALWAL

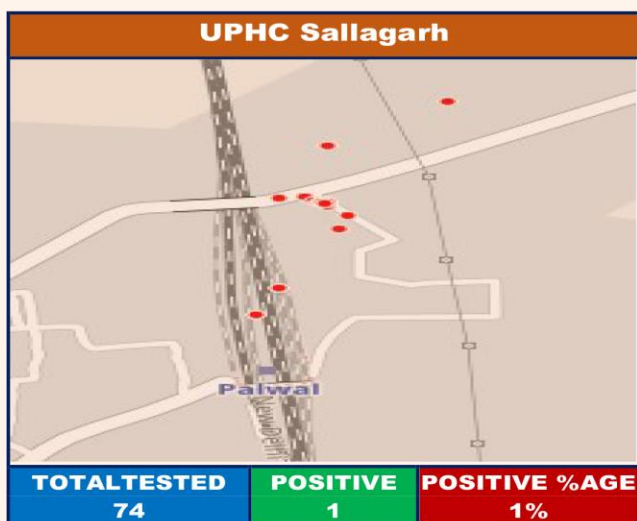
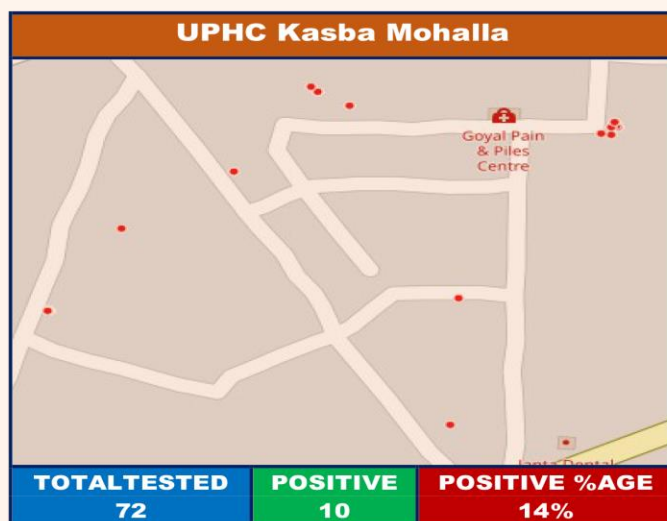
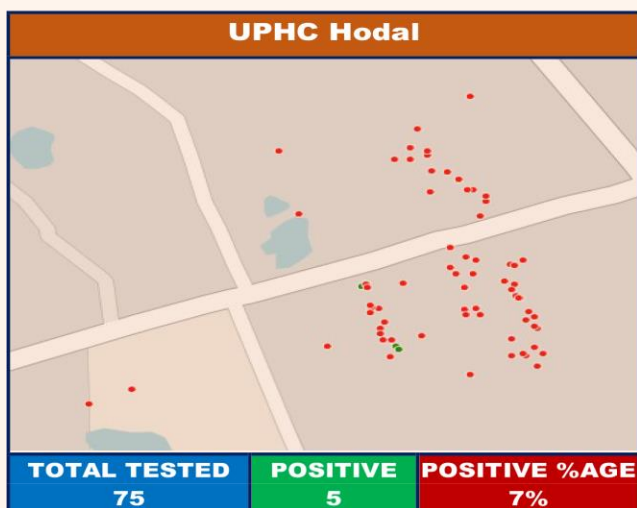
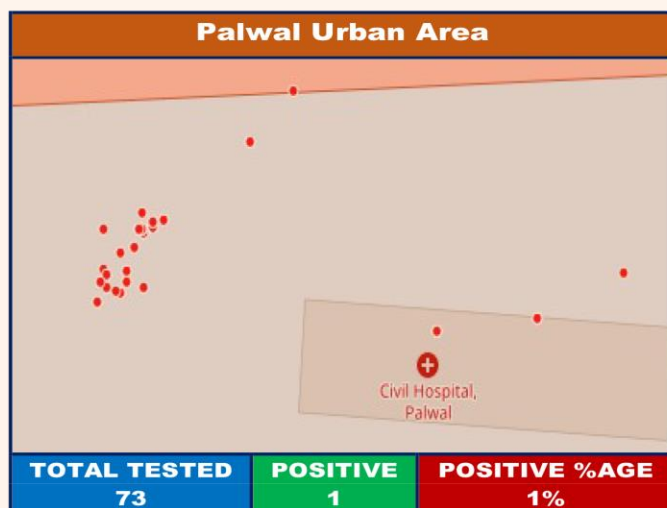
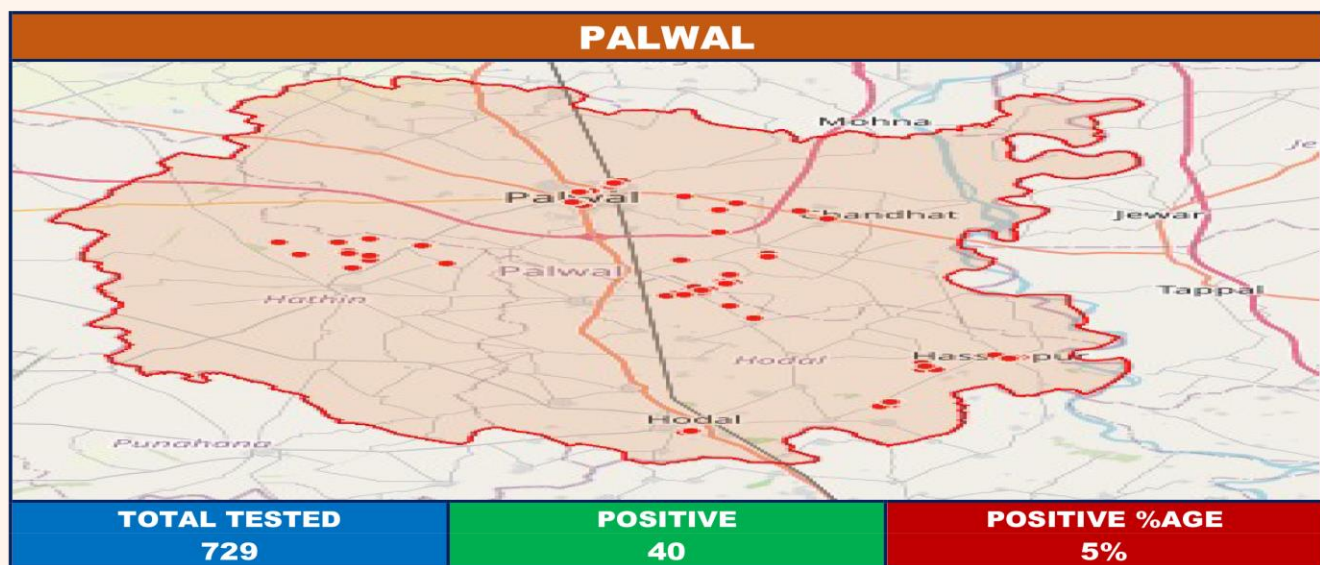




Table 1: Villages/ areas covered in District Palwal

Rural clusters	No. of samples collected
Deghot	36
Rundhi	36
Raidaska	38
Sihol	36
Missa	36
Taraka	37
Kalsara	36
Bhanguri Palwal	36
Sapanki	36
Hasanpur	36
Bhiduki	36
Darana Under SC Bhaindoli	36
Urban Clusters	No. of samples collected
Hodal	75
Kasba Mohalla	72
Sallagarh	74
Palwal Urban Area	73
Total 16 clusters	729

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	0	0%
No	729	100%
Total	729	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	387	53.2%
Male	342	46.8%
Transgender	0	0%
Total	729	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	39.39	15.48
Male	46.54	16.738
Transgender	0	0
Total	42.74	16.463

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	348	47.8%
Govt. Office	14	1.9%
Health care worker	68	9.3%
Labour/ farmer	87	11.9%
Private job/ business	60	8.2%
Non- working	70	9.6%
Any other	5	0.7%
Senior citizen (60 years and above)	49	6.7%
Student	28	3.8%
Total	729	100%

Table 6: History of any chronic illness

Disease	Frequency	Percentage
Diabetes	19	2.60%
Hypertension	31	4.24%
Respiratory disease	10	1.36%
Heart disease	8	1.09%
Thyroid	1	0.01%
Kidney disease	0	0%
Any other	41	5.61%

Table 7: History of any covid-19 symptoms in last 60 days (Multiple responses)

Symptoms	Frequency	Percentage
Yes	87	11.9%
No	642	88.1%
Total	729	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	454	62.3%
No	275	37.7%
Total	729	100%

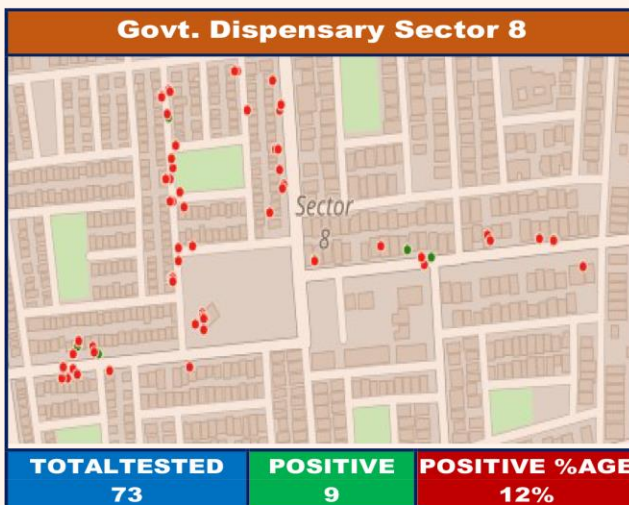
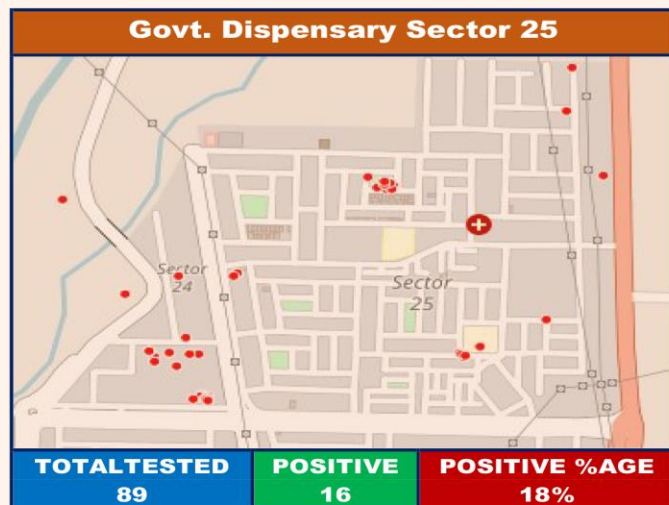
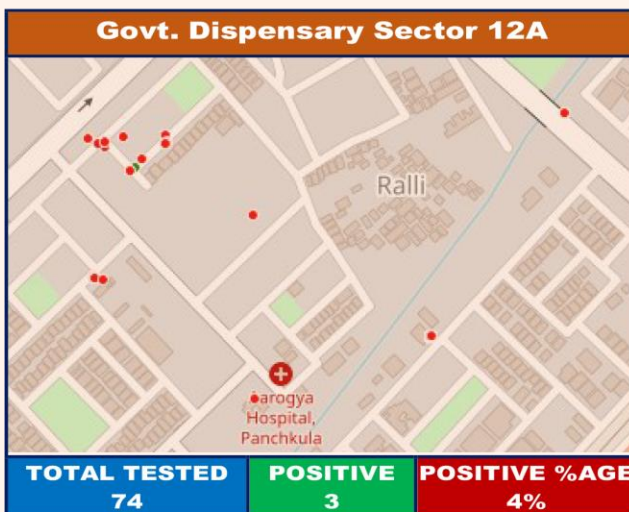
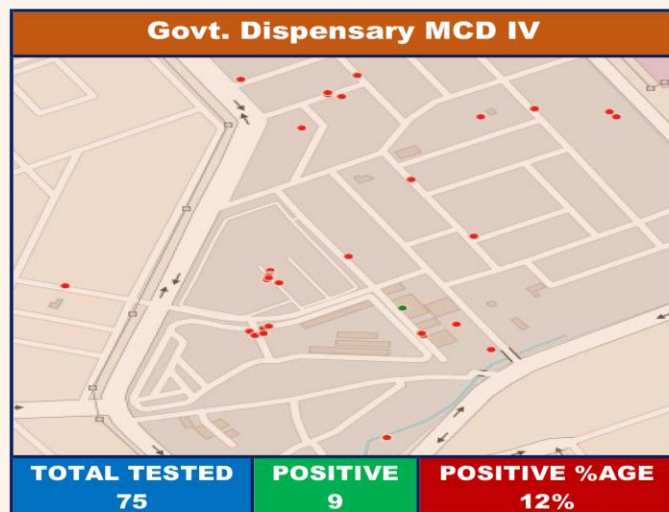
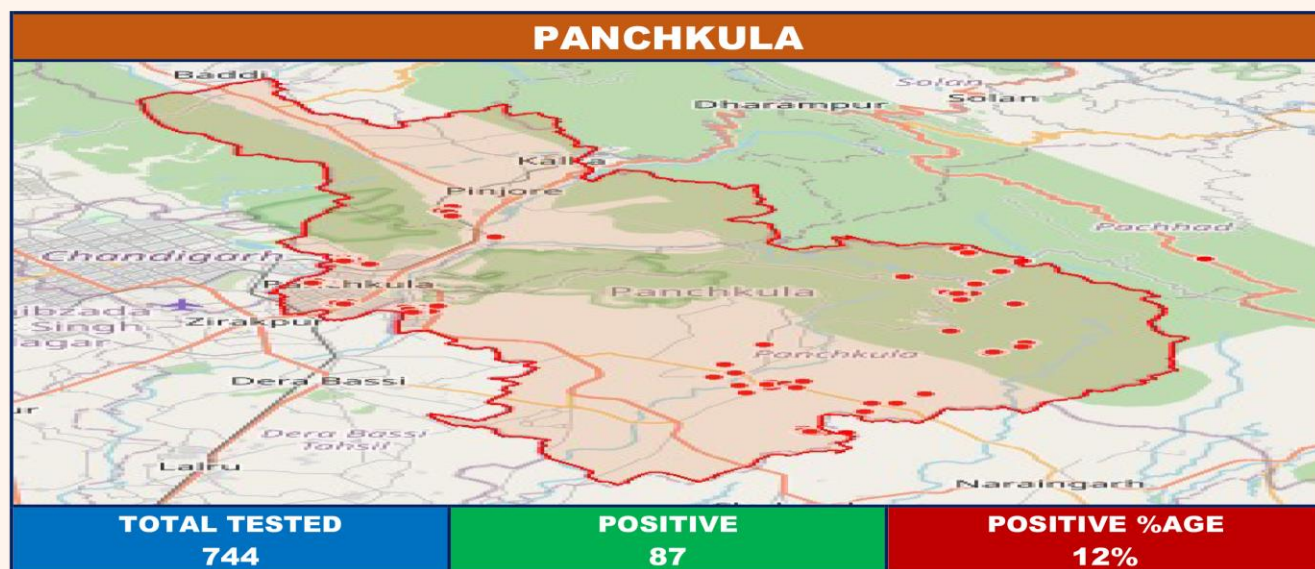
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	456	62.6%
No	273	37.4%
Total	729	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	362	49.8%
Positive	1	0.1%
Negative	366	50.1%
Total	729	100%

PANCHKULA



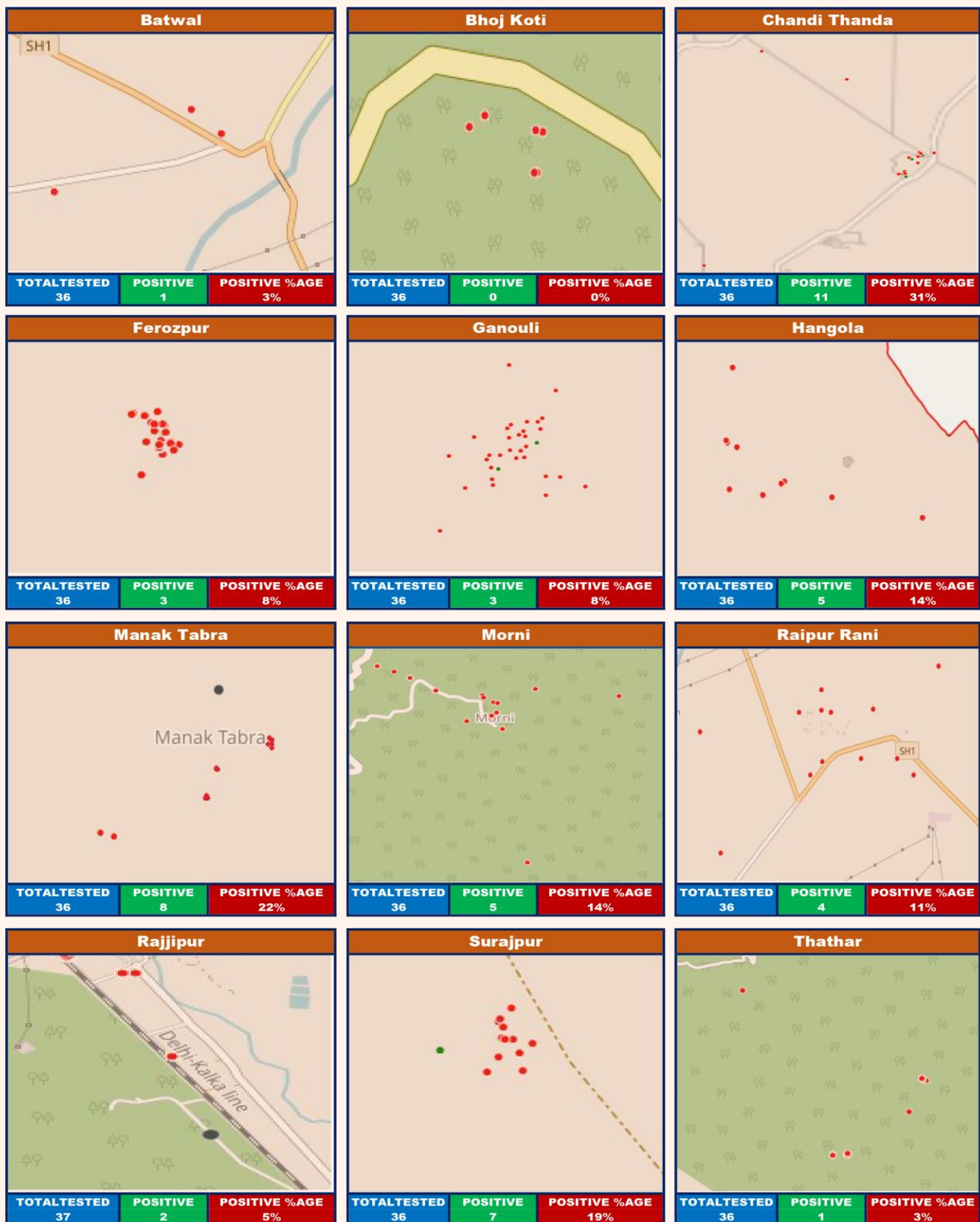


Table 1: Villages/ areas covered in District Panchkula

Rural clusters	No. of samples collected
Morni	36
Bhoj koti	36
Thathar	36
Surajpur	36
Chandi jhanda	36
Rajipur	37
Raipur rani	36
Manak tabra	36
Batwal	36
Hangola	36
Ganouli	36
Ferozpur	36
Urban clusters	No. of samples collected
MCD IV	75
Sector 12A	74
Sector 25	89
Sector 8	73
Total 16 clusters	744

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	11	1.5%
No	733	98.4%
Total	744	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	394	52.9%
Male	350	47.1%
Transgender	0	0%
Total	744	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	45.36	14.056
Male	49.58	17.925
Transgender	0	0
Total	47.34	16.121

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	261	35.1%
Govt. Office	27	3.6%
Health care worker	39	5.2%
Labour/ farmer	120	16.1%
Private job/ business	114	15.3%
Non- working	65	8.8%
Any other	5	0.7%
Senior citizen (60 years and above)	96	12.9%
Student	17	2.3%
Total	744	100%

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	62	8.26%
Hypertension	100	13.33%
Respiratory disease	4	0.53%
Heart disease	17	2.26%
Thyroid	1	0.13%
Kidney disease	2	0.26%
Any other	6	0.8%

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	71	9.5%
No	673	90.5%
Total	744	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	502	67.6%
No	242	32.4%
Total	744	100%

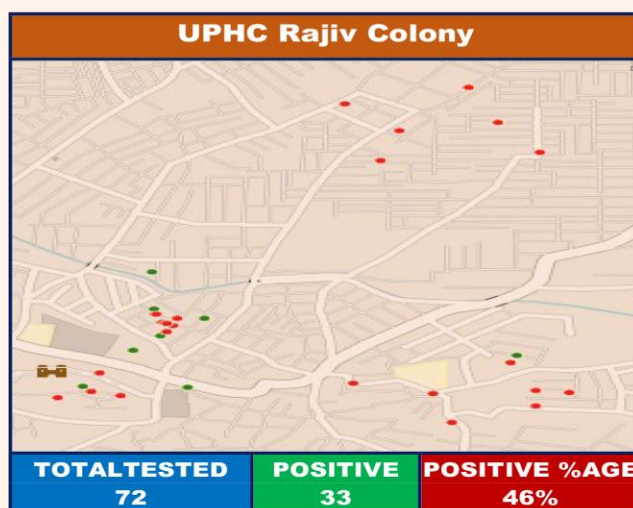
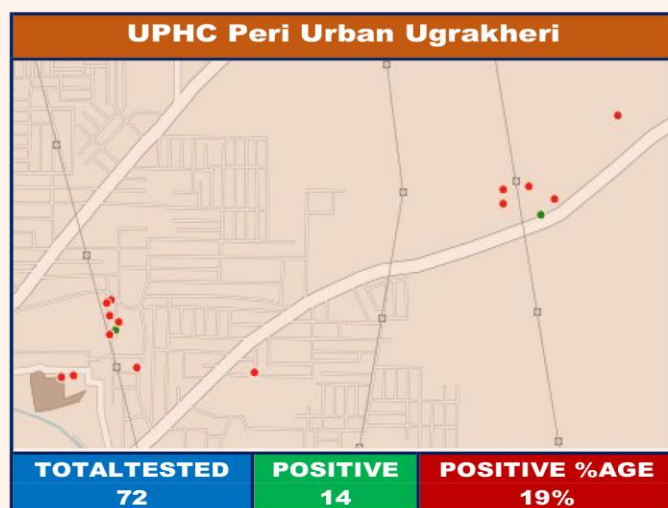
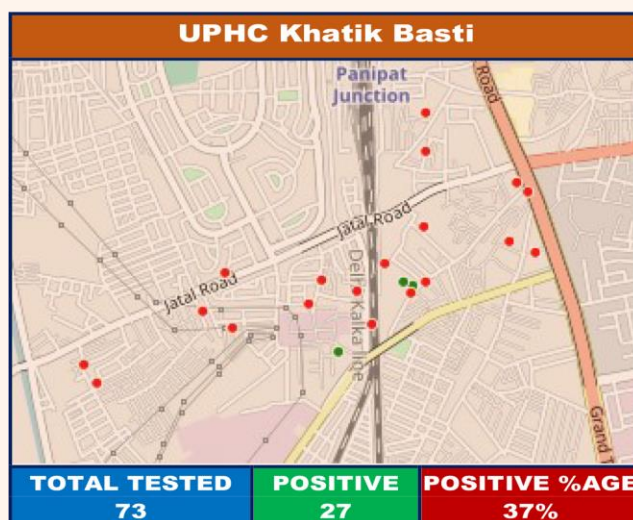
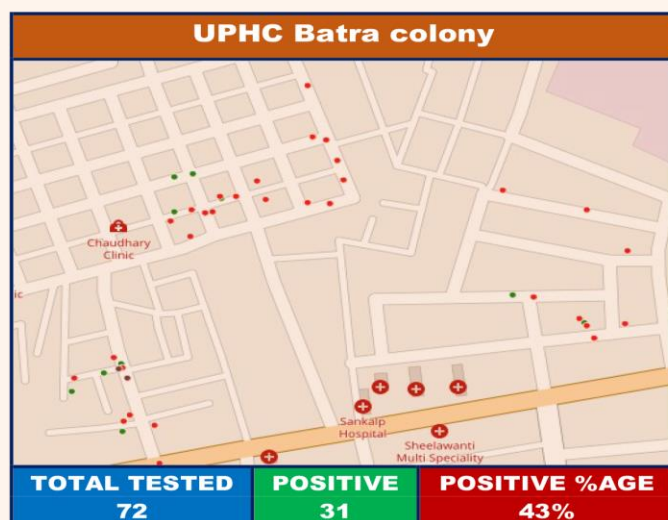
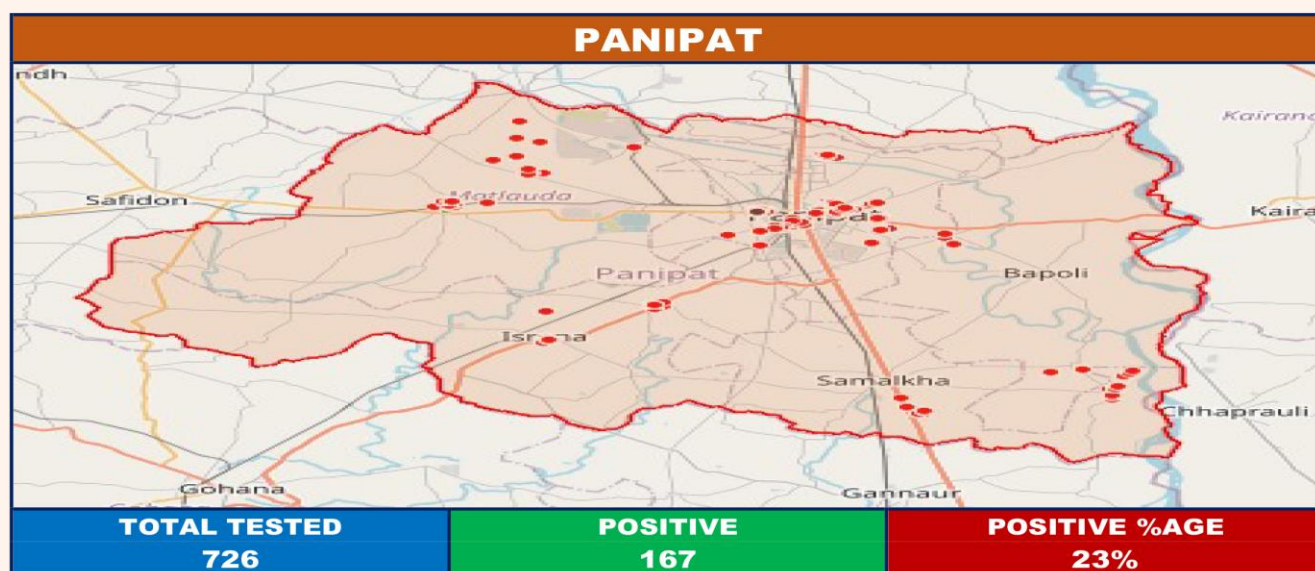
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	487	65.6%
No	257	34.4%
Total	744	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	684	92.0%
Positive	8	1.1%
Negative	52	6.9%
Total	744	100%

PANIPAT



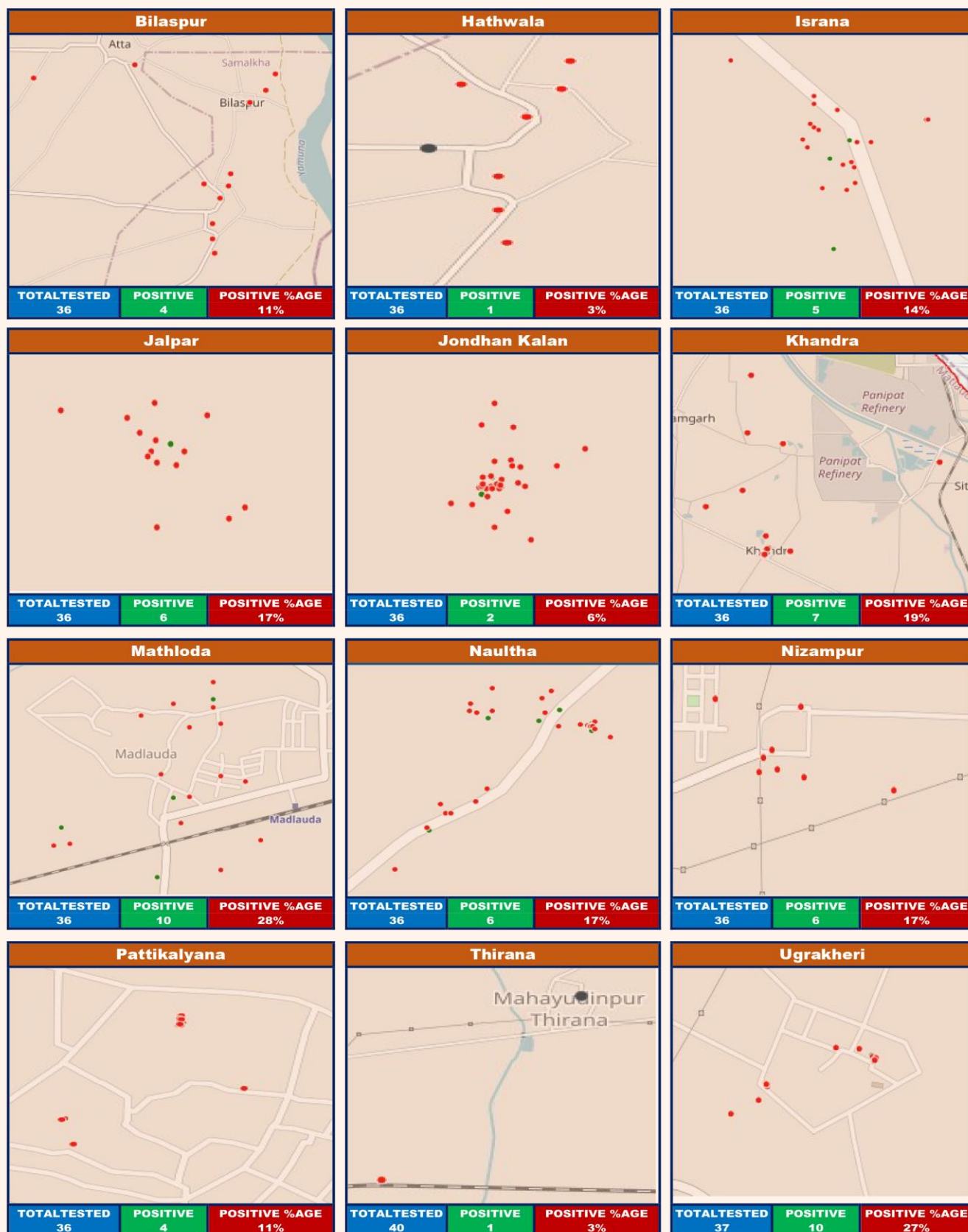


Table 1: Villages/ areas covered in District Panipat

Rural clusters	No. of samples collected
Mathloda	36
Khandra	36
Thirana	40
Israna	36
Jondhan Kalan	36
Naultha	36
Ugrakheri	37
Nizampur	36
Jalpar	36
Pattikalyana	36
Hathwala	36
Bilaspur	36
Urban clusters	No. of samples collected
Peri Urban Ugrakheri	72
Rajeev Colony	72
Batra Colony	74
Khatik Basti	73
Total 16 clusters	728

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	15	2.1 %
No	713	97.9 %
Total	728	100 %

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	379	52.2 %
Male	348	47.7 %
Transgender	1	0.1 %
Total	728	100 %

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	39.91	13.164
Male	48.44	15.428
Transgender	72	-
Total	44.02	14.928

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	323	44.5 %
Govt. Office	17	2.3 %
Health care worker	25	3.4 %
Labour/ Farmer	150	20.5 %
Private job/ business	82	11.2 %
Non-working	67	9.2 %
Any other	9	1.2 %
Senior citizen (60 years and above)	40	5.5 %
Student	15	2.1%
Total	728	100 %

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	22	3.0%
Hypertension	28	3.8 %
Respiratory disease	2	0.27 %
Heart disease	3	0.4 %
Thyroid disease	0	0 %
Kidney disease	0	0 %
Any other	3	0.4 %
No known illness	682	93.4 %

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	18	2.5 %
No	710	97.5 %
Total	728	100 %

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	401	55.2 %
No	327	44.8 %
Total	728	100 %

Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	409	56.3 %
No	319	43.7 %
Total	728	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	530	72.9 %
Positive	3	0.4 %
Negative	194	26.6 %
Awaited	1	0.1 %
Total	728	100 %

REWARI

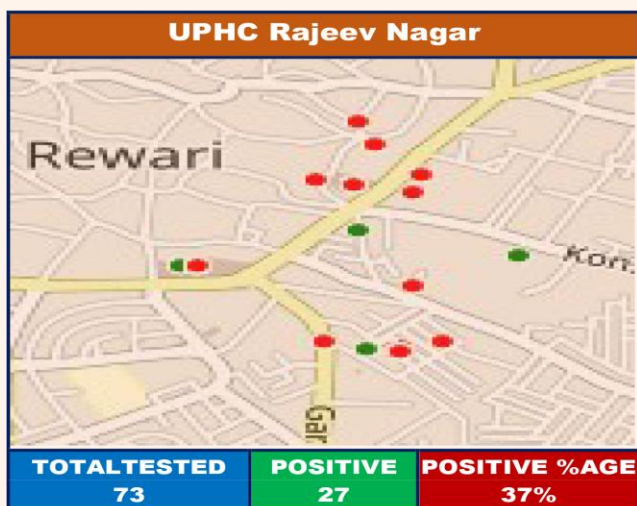
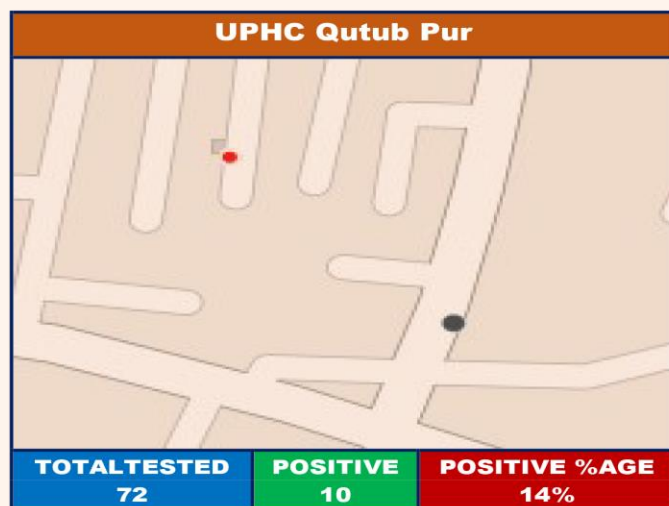
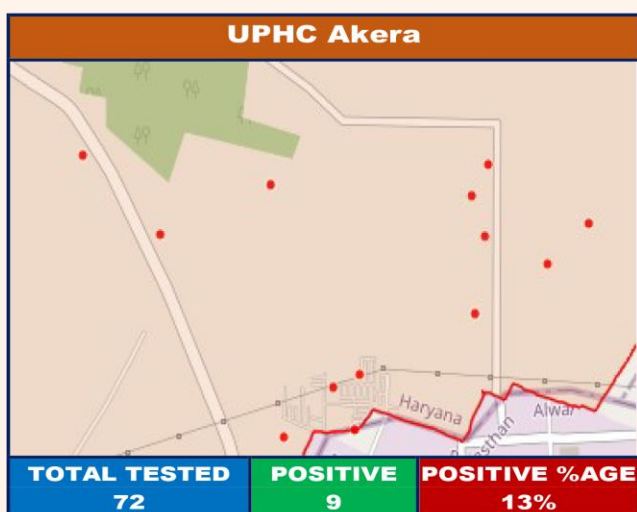
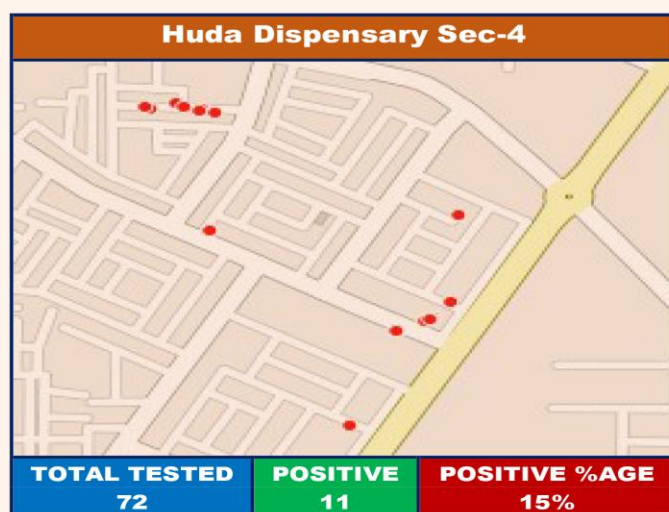
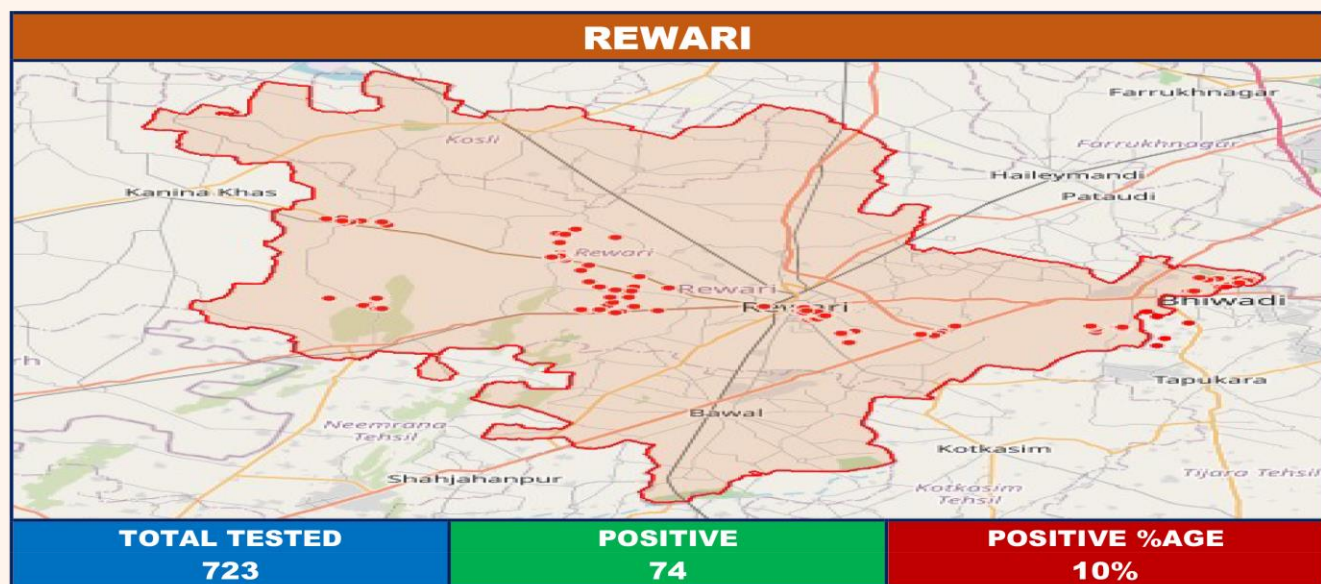




Table 1: Villages/ areas covered in District Rewari

Rural clusters	No. of samples collected
Sangwari	36
Shahbajpur Khalsa	36
Laduwas	36
Dahina Jainabad	36
Chauki No. 2	36
Nangal	36
Khol	38
Bahotwar Ahir	36
Dhani Santo	36
Dharuhera	36
Alwapur	36
Tatarpur	36
Urban clusters	No. of samples collected
Akera	72
Qutub Pur	72
Rajeev Nagar	73
Huda Sector-3	72
Total 16 clusters	723

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	7	1 %
No	716	99 %
Total	723	100 %

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	368	50.9 %
Male	354	49 %
Transgender	1	0.1 %
Total	725	100 %

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	41.53	13.877
Male	47.77	16.877
Transgender	52	-
Total	44.60	15.684

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	270	37.4 %
Govt. Office	21	2.9 %
Health care worker	64	8.8 %
Labour/ Farmer	84	11.6 %
Private job/ business	102	14.1 %
Non-working	41	5.8 %
Any other	22	3 %
Senior citizen (60 years and above)	82	11.3 %
Student	37	5.1 %
Total	723	100 %

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	12	1.6 %
Hypertension	22	3 %
Respiratory disease	9	1.2 %
Heart disease	3	0.4 %
Thyroid disease	4	0.55 %
Kidney disease	0	0 %
Any other	11	1.5 %
No known illness	674	92.9 %

Table 7: History of any covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	39	5.4 %
No	684	94.6 %
Total	723	100 %

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	523	72.3 %
No	200	27.7 %
Total	723	100 %

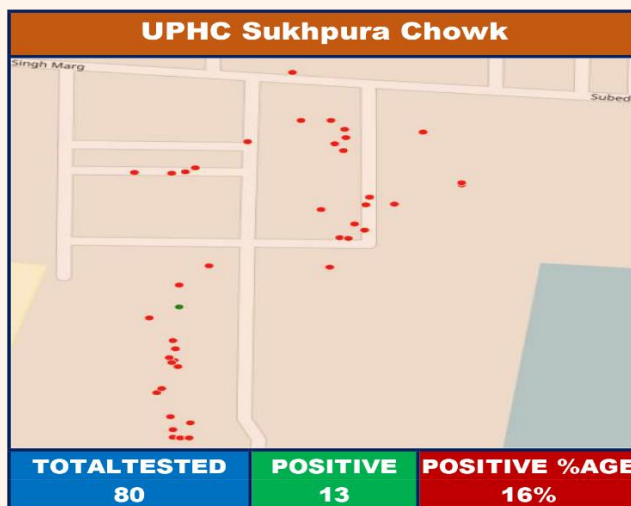
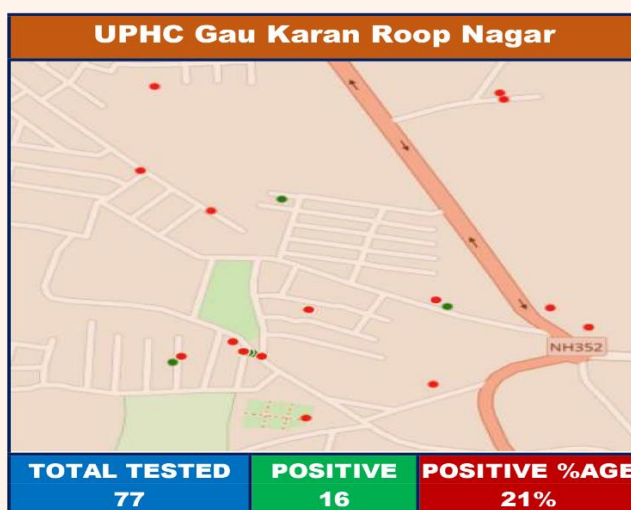
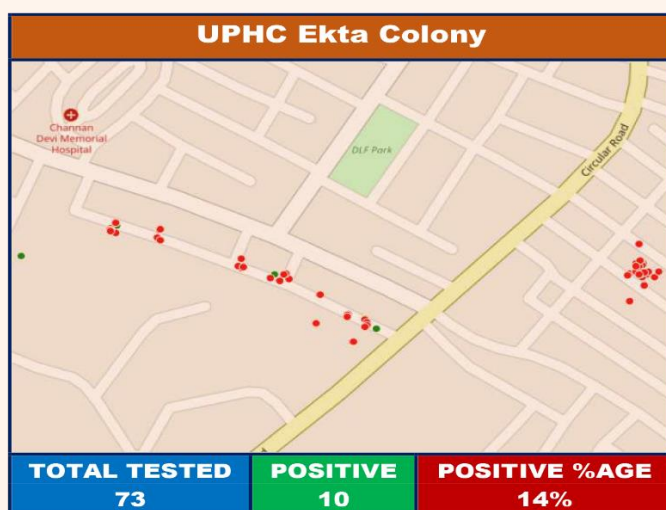
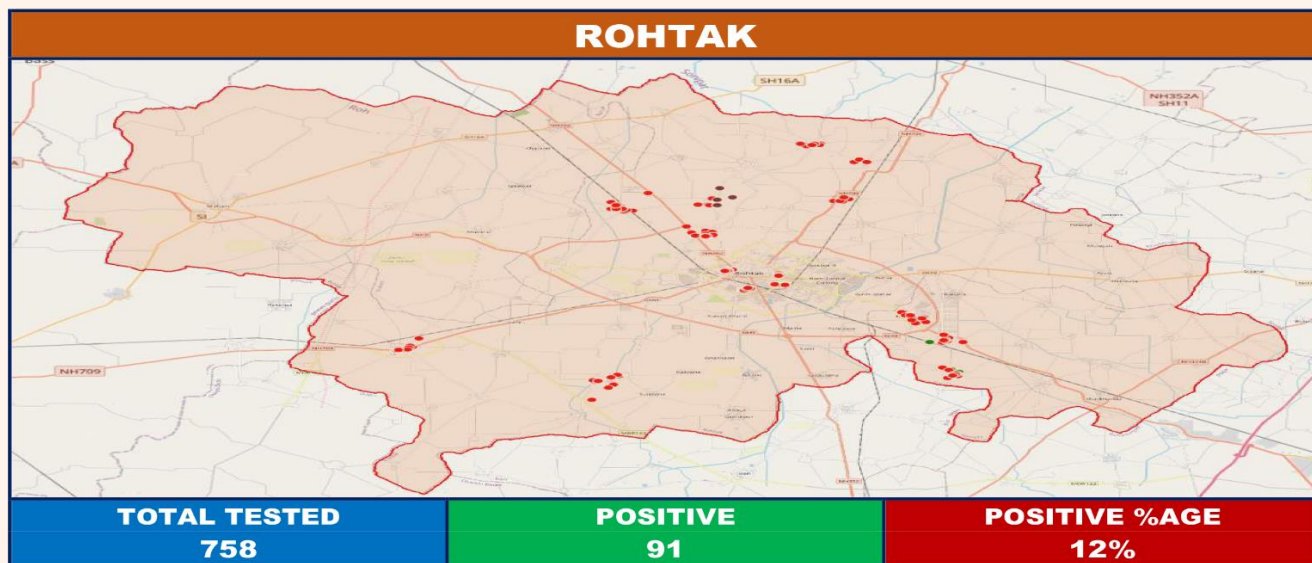
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	501	69.2 %
No	222	30.8 %
Total	723	100 %

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	613	84.8 %
Positive	1	0.1 %
Negative	109	15 %
Total	723	100 %

ROHTAK



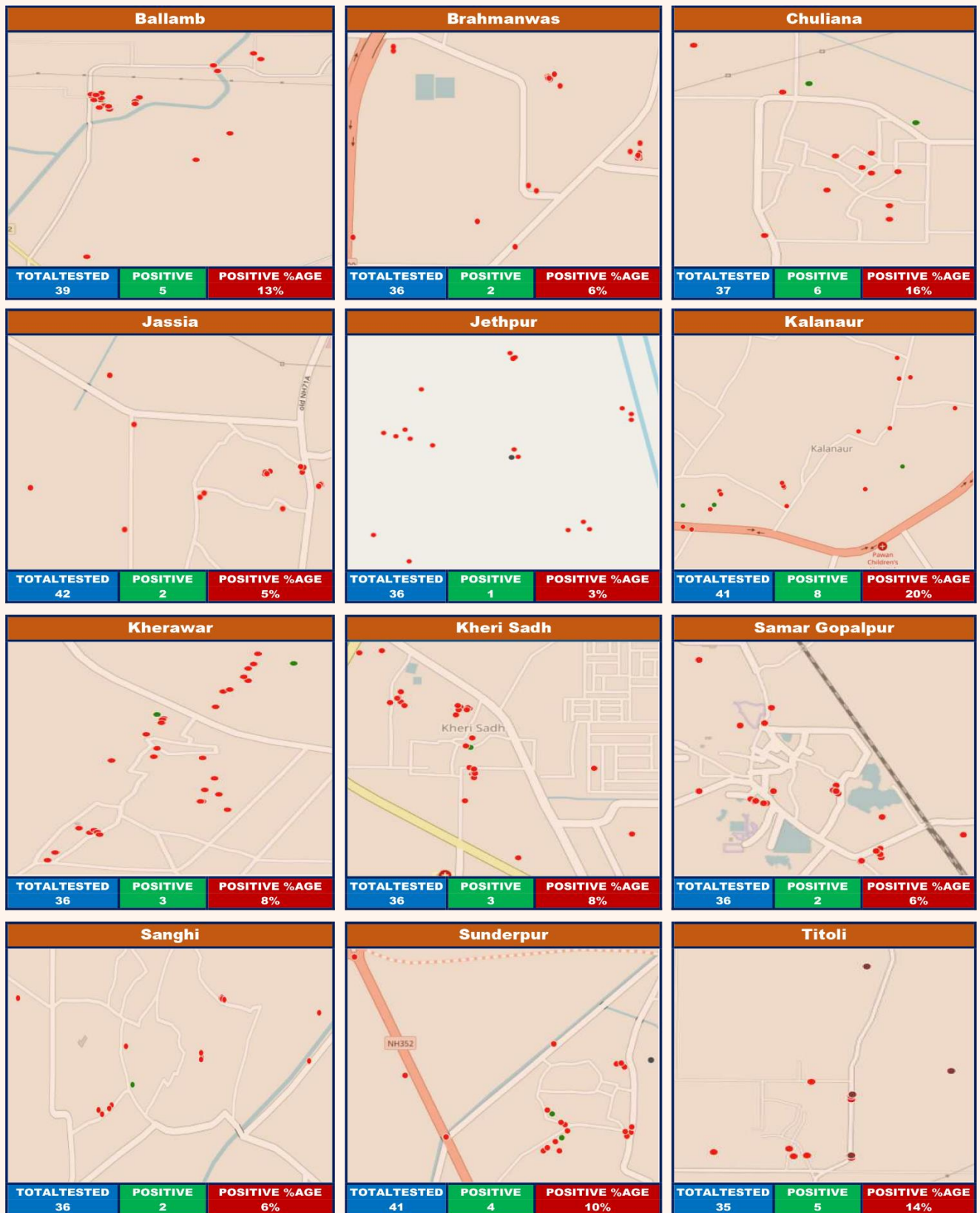


Table 1: Villages/ areas covered in District Rohtak

Rural clusters	No. of samples collected
Samar Gopalpur	36
Sunderpur	41
Titoli	40
Kalanaur	41
Ballamb	39
Jethpur	36
Sanghi	36
Brahmanwas	36
Jassia	42
Kherawar	36
Kheri Sadh	36
Chuliana	37
Urban clusters	No. of samples collected
Ekta Colony	73
Gau Karan Roop Nagar Nehru Colony	77
Rajendra Colony Hari Singh Colony	77
Sukhpura Chowk	80
Total 16 clusters	763

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	232	30.4%
No	531	69.6%
Total	763	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	347	45.5%
Male	415	54.4%
Transgender	1	0.1%
Total	763	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	44.12	15.201
Male	48.63	16.570
Transgender	56	-
Total	46.59	16.101

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	302	39.6%
Govt. Office	32	4.2%
Health care worker	41	5.4%
Labour/ farmer	120	15.7%
Private job/ business	80	10.5%
Non- working	63	8.3%
Any other	10	1.3%
Senior citizen (60 years and above)	87	11.4%
Student	28	3.7%
Total	763	100%

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	34	4.45%
Hypertension	27	36.9%
Respiratory disease	13	1.70%
Heart disease	10	1.31%
Thyroid	6	0.78%
Kidney disease	0	0%
Any other	7	0.91%
No known illness	683	89.51%

Table 7: History of covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	43	5.6%
No	720	94.4%
Total	763	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	535	70.8%
No	228	29.9%
Total	763	100%

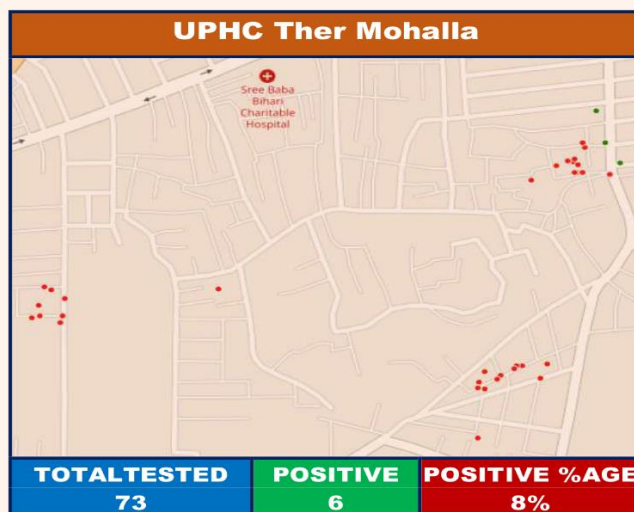
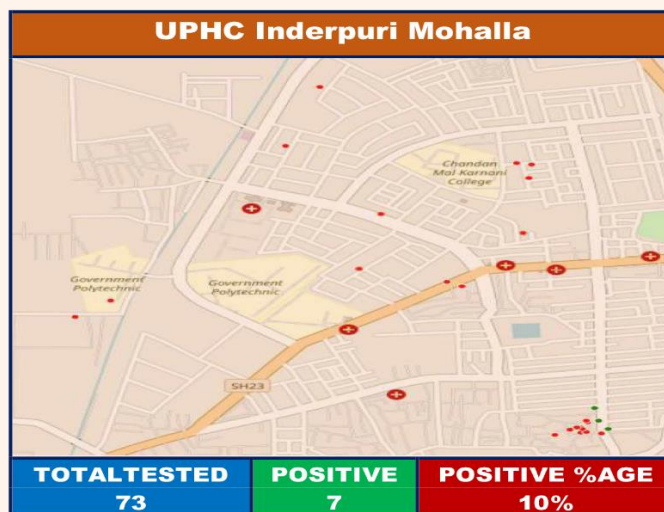
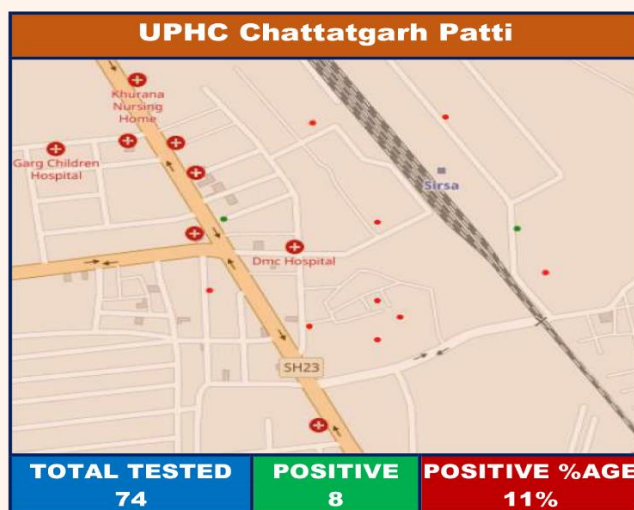
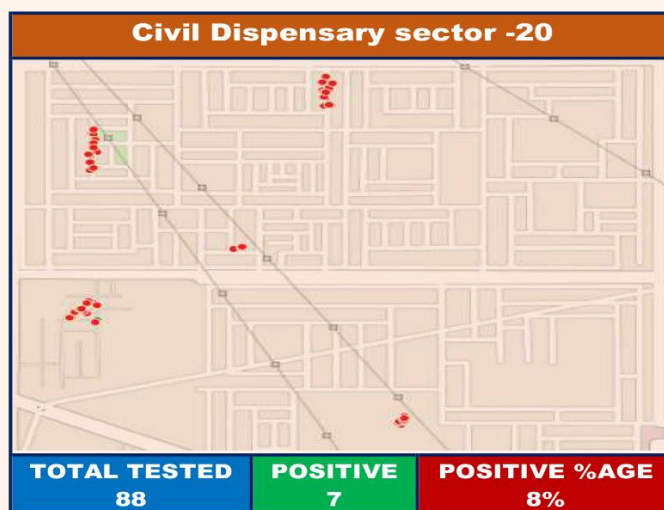
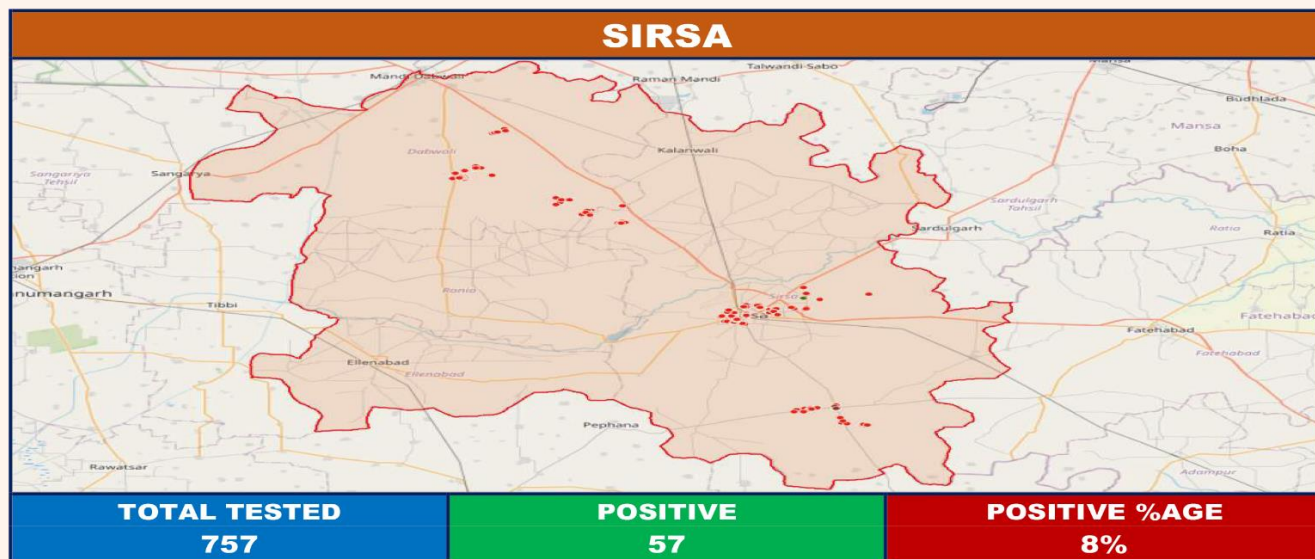
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	524	68.7%
No	239	31.3%
Total	763	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	645	84.5%
Positive	13	1.7%
Negative	105	13.8%
Total	763	100%

SIRSA



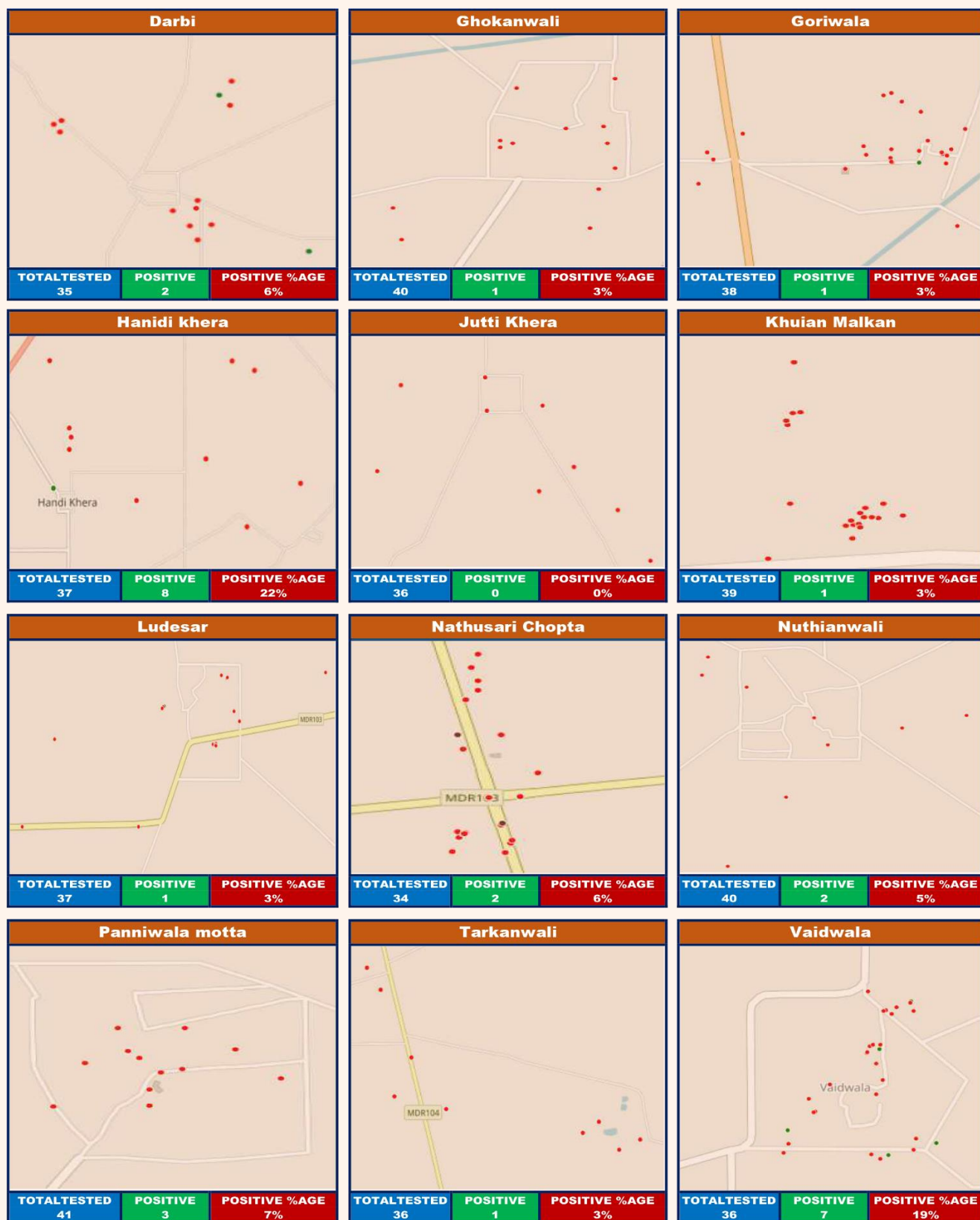


Table 1: Villages/ areas covered in District Sirsa

Rural clusters	No. of samples collected
Panniwala motta	41
Nuthianwali	40
Ghokanwali	40
Nathusari Chopta	36
Ludesar	37
Tarkanwali	36
Darbi	36
Vaidwala	36
Hanidi khera	37
Goriwala	38
Khuian Malkan	39
Jutti Khera	36
Urban clusters	No. of samples collected
Chattatgarh Patti	74
Civil Dispensary sector -20	88
Inderpuri Mohalla	73
Ther Mohalla	73
Total 16 clusters	760

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	1	0.1%
No	759	99.9%
Total	760	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	436	57.4%
Male	324	42.6%
Transgender	0	0%
Total	760	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	42.20	13.306
Male	52.43	15.486
Transgender	0	0
Total	46.56	15.137

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	368	48.5%
Govt. Office	23	3%
Health care worker	19	2.5%
Labour/ farmer	132	17.3%
Private job/ business	64	8.3%
Non- working	42	5.6%
Any other	39	5.2%
Senior citizen (60 years and above)	62	8.1%
Student	11	1.5%
Total	760	100%

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	26	3.4 %
Hypertension	10	1.3 %
Respiratory disease	4	0.5%
Heart disease	9	1.1 %
Thyroid	0	0 %
Any other	11	1.4 %
Kidney disease	0	0 %
No Known Illness	702	92.8 %

Table 7: History of covid-19 symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	12	1.6%
No	748	98.4%
Total	760	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	570	74.9%
No	190	25.1%
Total	760	100%

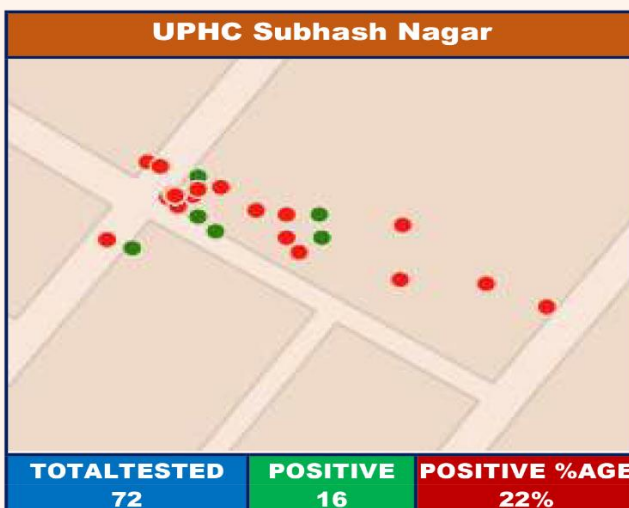
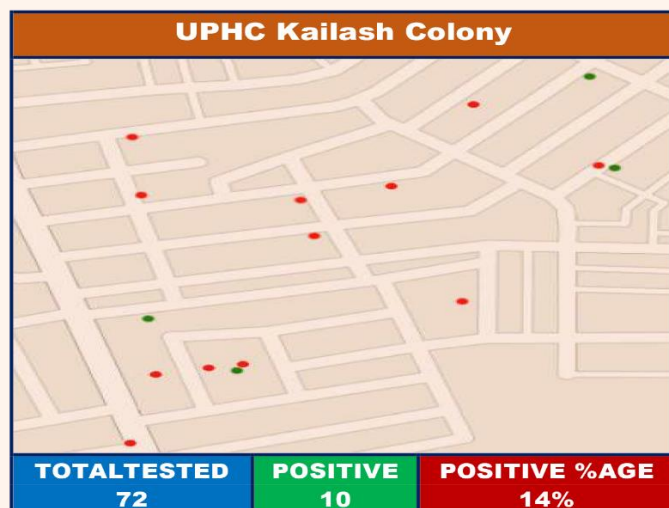
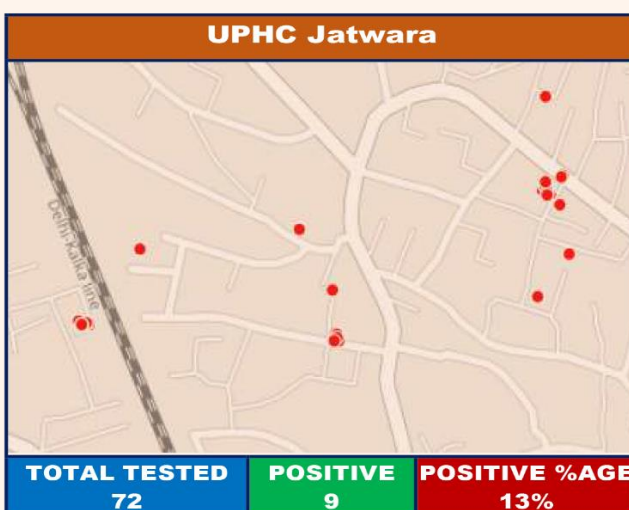
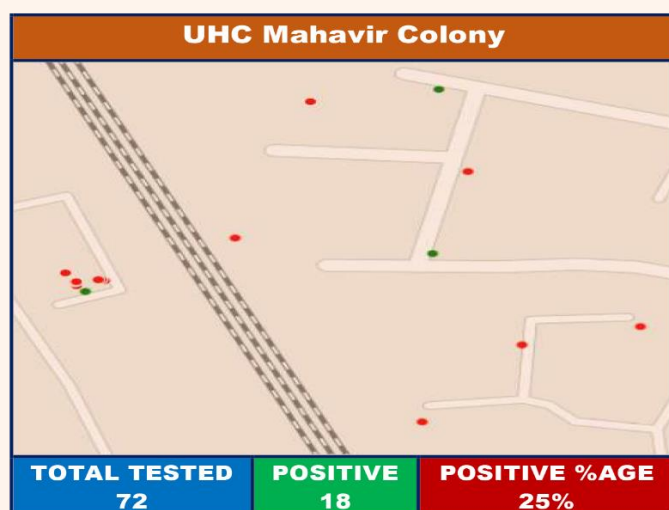
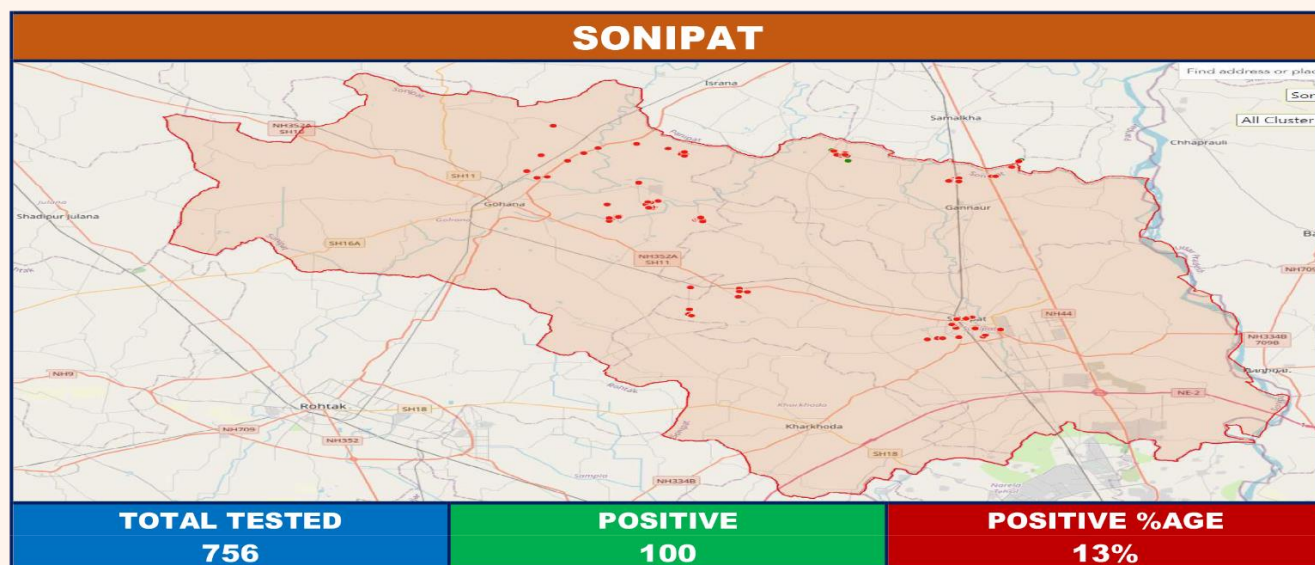
Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	543	71.4%
No	217	28.6%
Total	760	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	645	84.8%
Positive	1	0.1%
Negative	114	15.1%
Total	760	100%

SONIPAT



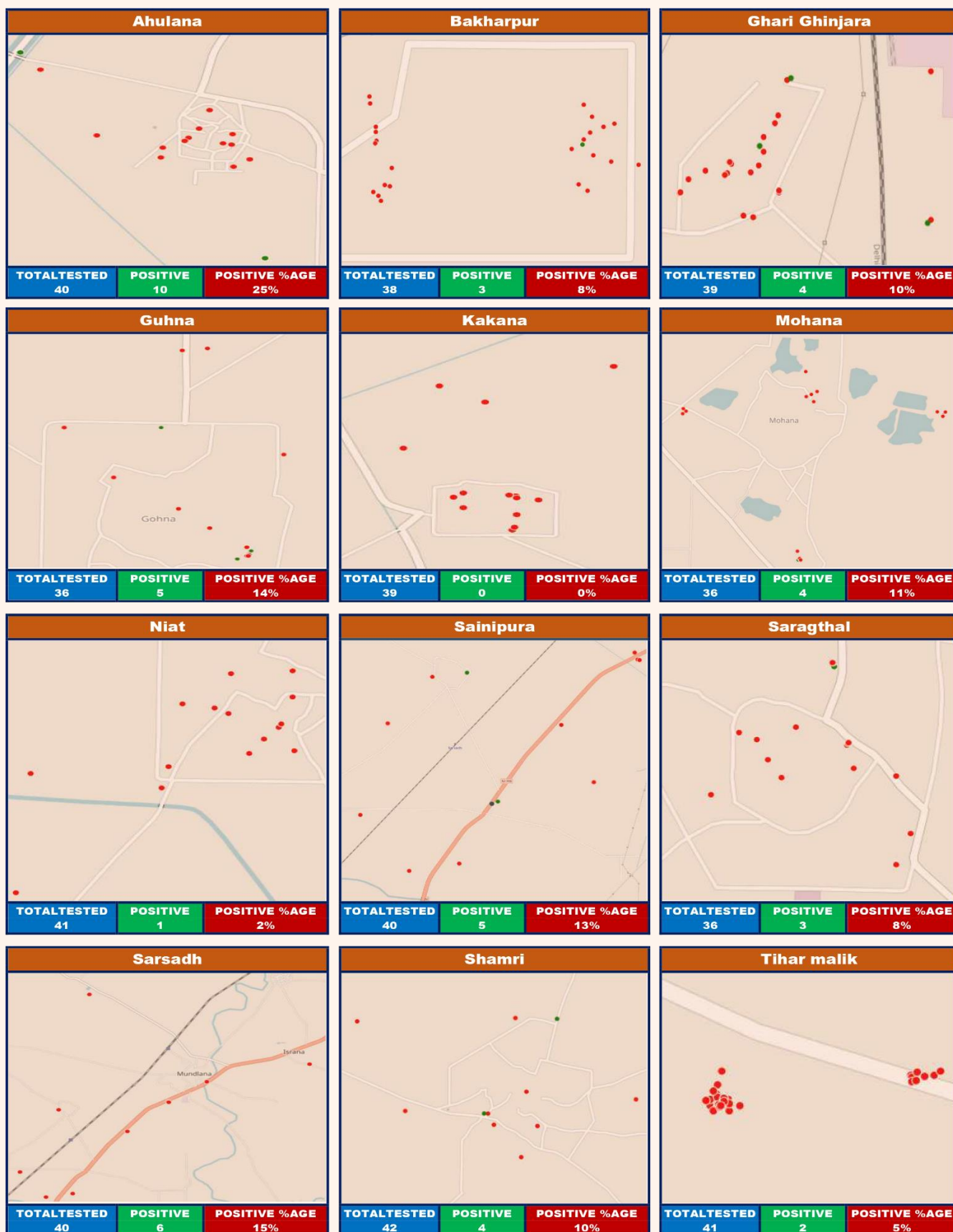


Table 1: Villages/ areas covered in District Sonapat

Rural clusters	No. of samples collected
Ahulana	40
Ghari Ghinjara	39
Bakharpur	38
Saragthal	36
Niat	41
Kakana	39
Mohana	36
Guhna	36
Tihar Malik	41
Shamri	42
Sarsadh	40
Sainipura	40
Urban clusters	No. of samples collected
Subhash Nagar	72
Mahavir Colony	72
Jatwara	72
Kailash Colony	72
Total 16 clusters	756

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	94	12.6%
No	662	87.4%
Total	756	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	412	54.5%
Male	344	45.5%
Transgender	0	0%
Total	756	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	42.28	14.374
Male	49.71	16.098
Transgender	0	0
Total	45.67	15.619

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	334	44.1%
Govt. Office	12	1.6%
Health care worker	33	4.3%
Labour/ farmer	137	18.2%
Private job/ business	63	8.4%
Non- working	33	4.3%
Any other	75	9.9%
Senior citizen (60 years and above)	53	7.1%
Student	16	2.1%
Total	756	100%

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	14	18.32%
Hypertension	18	2.35%
Respiratory disease	4	0.52%
Heart disease	9	1.17%
Thyroid	0	0%
Kidney disease	0	0%
Any other	4	0.52%
No known illness	723	94.63%

Table 7: History of any of the following symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	5	0.7%
No	751	99.3%
Total	756	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	461	61.1%
No	295	38.9%
Total	756	100%

Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	427	56.4%
No	329	43.6%
Total	756	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	269	35.5%
Positive	0	0%
Negative	487	64.5%
Total	756	100%

YAMUNANAGAR

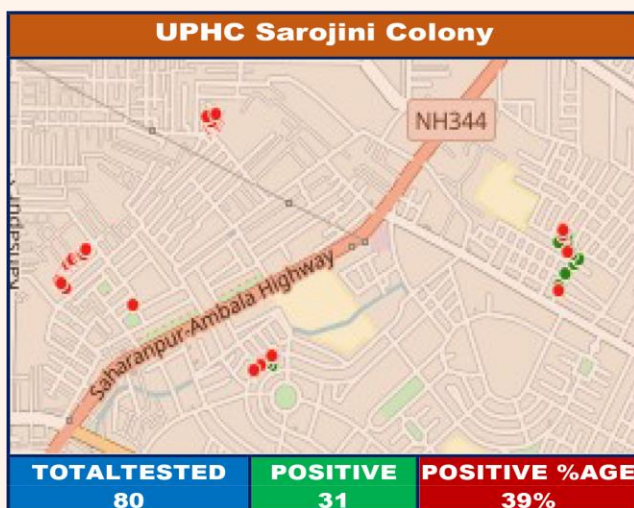
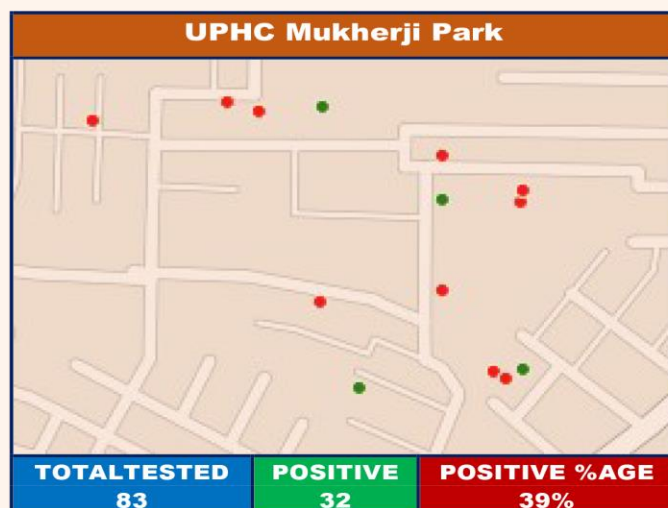
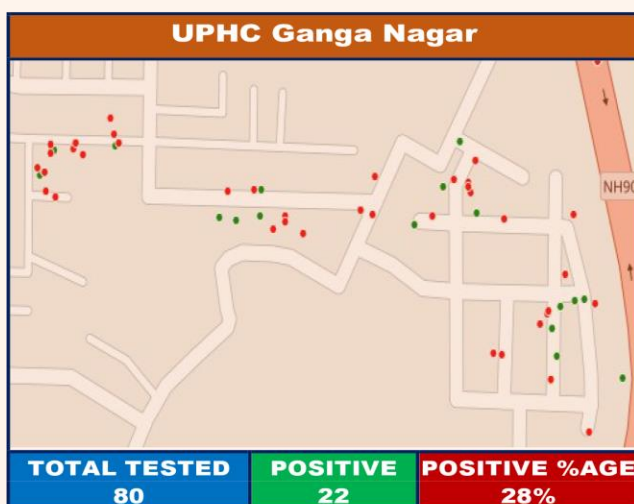
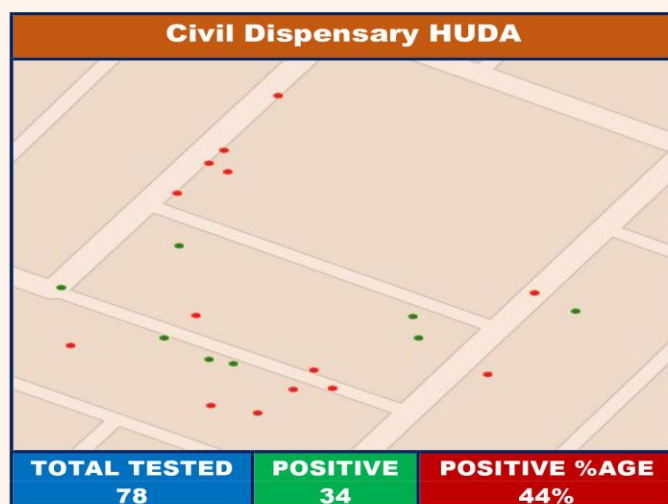
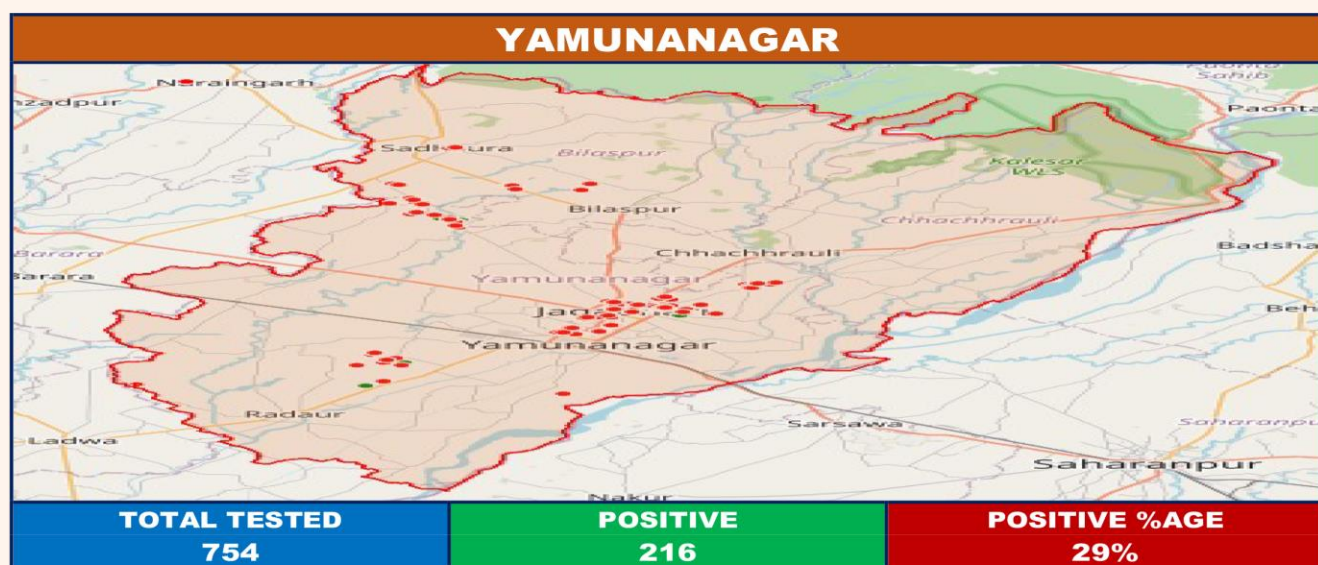




Table 1: Villages/ areas covered in District Yamunanagar

Rural clusters	No. of samples collected
Naharpur	36
Hafizpur	36
Kunjal	36
Sadhaura	36
Tumbi	36
Kayampur	36
Kharwan	37
Gari Banjara	36
Uddam Garh	36
Haibatpur	36
Chaharwala	36
Ambwala	36
Urban clusters	No. of samples collected
Civil Dispensary HUDA	78
Ganga Nagar	80
Mukherji Park	83
Sarojini Colony	80
Total 16 clusters	754

Table 2: Participants residing in containment zones

Response	Frequency	Percentage
Yes	2	0.3%
No	752	99.7%
Total	754	100%

Table 3: Gender distribution of participants

Response	Frequency	Percentage
Female	416	55.2%
Male	338	44.8%
Transgender	0	0%
Total	754	100%

Table 4: Gender-wise mean age of participants

Gender	Mean Age	Standard Deviation
Female	46.05	14.188
Male	49.52	15.948
Transgender	0	0
Total	47.60	15.091

Table 5: Occupation-wise distribution of participants

Response	Frequency	Percentage
Housewife	393	52.2%
Govt. Office	18	2.4%
Health care worker	29	3.8%
Labour/ farmer	75	9.9%
Private job/ business	102	13.6%
Non- working	36	4.8%
Any other	8	1.1%
Senior citizen (60 years and above)	82	10.8%
Student	11	1.5%
Total	754	100%

Table 6: History of any chronic illness (Multiple responses)

Disease	Frequency	Percentage
Diabetes	49	6.4 %
Hypertension	56	7.3 %
Respiratory disease	4	0.5 %
Heart disease	9	1.1 %
Thyroid	7	0.9 %
Any other	6	0.7 %
Kidney disease	1	0.13 %
No known illness	650	85.8 %

Table 7: History of any of the following symptoms in last 60 days

Symptoms	Frequency	Percentage
Yes	37	4.9%
No	717	95.1%
Total	754	100%

Table 8: Mask wearing practices of participants

Response	Frequency	Percentage
Yes	407	54%
No	347	46%
Total	754	100%

Table 9: Social distancing practices of participants

Social distancing maintained	Frequency	Percentage
Yes	401	53.2%
No	353	46.8%
Total	754	100%

Table 10: History of any previous COVID19 tests done among participants

Test result	Frequency	Percentage
Not tested	621	82.4%
Positive	3	0.4%
Negative	130	17.2%
Total	754	100%



MEDIA GALLERY

SUPERVISION AT STATE IDSP HQ.



GURUGRAM



JIND



CHARKHI DADRI



FATEHABAD



AMBALA



FARIDABAD



PANIPAT



REWARI



ROHTAK



BHIWANI



JHAJJAR



SONEPAT



KARNAL



MAHENDERAGARH



KAITHAL



KURUKSHETRA



PANCHKULA



NUH



REWARI



KAITHAL



KURUKSHETRA



CHARKHI DADRI



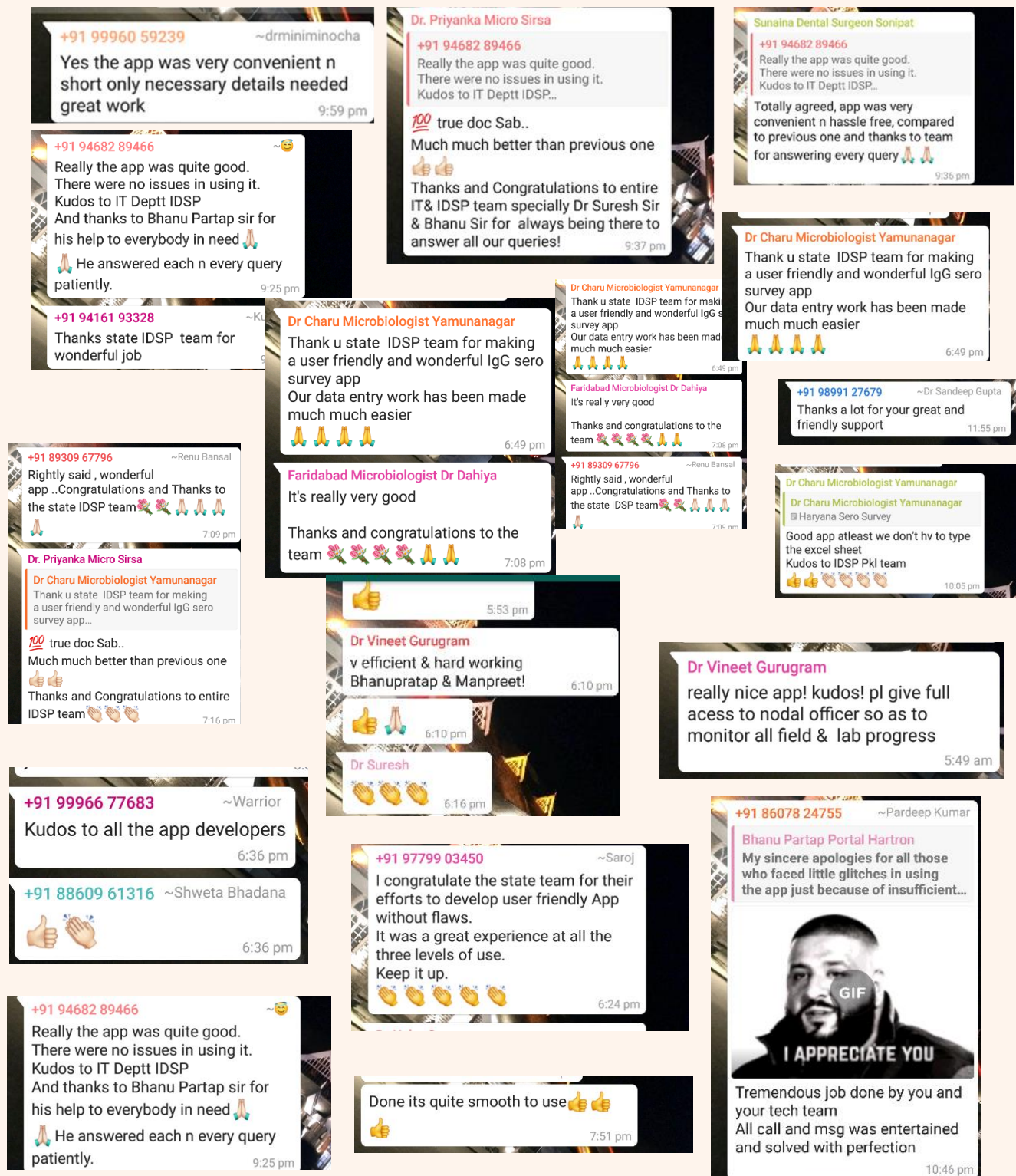
REWARI



PANCHKULA



COVID-19 SERO SURVEY MOBILE APP FEEDBACK



ANNEXURE – 1

ROLE OF DEPARTMENT OF COMMUNITY MEDICINE.

1. Protocol preparation and IEC approvals
2. Trainings and Mentorship: Two trainings done followed by real time mentorship
3. Quality Assurance
4. Data compilation and Report Presentation and
5. Submission of Final Report for Dissemination (Soft Copy)

There was no direct financial liability on the institute.

ROLE OF DGHS OFFICE, HARYANA

1. **Deployment of Human Resources:** It was done as per the plan to large extent.
 - a. 6 Teams per District. One team with one medical officer, one laboratory technician and one ANM/ LHV/ or any other staff of this level.
 - b. 3 supervisors per district: one supervisor per 2 teams. These may be from any supervisory cadre with good attitude
 - c. One State level supervisor for every two districts to be covered on one day.
2. **Logistics:** Forms were printed, digital tool was used on the android mobile phones. Other logistics were available. Following plan was given to the districts.
 - a. Forms and formats: 850 forms will be required per district. Including wastage, get 1000 forms printed per district
 - b. Digital data entry logistics in terms of mobile phone or some Pad should be made available to all teams.
 - c. State/ district will provide maps of the selected clusters for further micro-planning
 - d. Laboratory materials in terms of blood withdrawing supplies (syringes/ needs/ vacutainers), cotton swab rolls, 70% alcohol for swab, bar code readers, barcode generator, bar code printed slips (4 slips per participant: one for blood vial/ vacutainer/ one to be pasted over survey form, and third on the laboratory document, and fourth extra).
 - e. Permanent black pen markers with fine Tips (two per team).
 - f. Laboratory materials for storage and transport.
 - g. Biomedical waste management supplies (Yellow bags, Black bags, Puncture proof leak proof translucent containers, Stickers of BMW hazard and label stickers).
 - h. Functional ELISA machine with related materials.
3. **Lodging & Boarding:** Could not be used as all districts were started at one go for the survey.

- a. State will be responsible for all lodging and boarding of state level supervisors (2 persons from PGI team and 4 persons from State DGHS office).
 - b. State will ensure all arrangements related to regular meals and refreshments of the visiting teams.
4. **Communication:** State established two whatsapp groups that worked exceptionally well to solve the issues of the districts in real time. The team of PI and state HQ were available from early morning to midnight to the district teams and to the state. Two nodal officers from state were designated by Director IDSP. Following was expected from the state:
 - a. State will establish all communication systems required for liaising with the teams throughout the state.
 - b. State should fix nodal persons for state and for each district for such purpose.
5. If required state will get the final reports printed.
6. **Administrative Support and Police Protection:** It was expected that this being sensitive matter, state will ensure through District Administration, that adequate police protection is provided to each team through-out the survey period. It seems that district administration was informed, however no police protection was deployed.
7. **Local Guides and Escorts to Supervisors:** It was expected that state will ensure to provide local guides and police escort to each of the state supervisory team. However, the work could be accomplished without this.

ROLE OF DEPARTMENT OF IT ELECTRONICS AND COMMUNICATION OF HARYANA

- In -House development of a user-friendly mobile Application (COVID 19 Sero Survey Mobile Application) and web portal for smooth conduct of 2nd round of Sero survey.
- Field level coordination both technical and operational by State e Gov Mission Team, DITECH.

ROLE OF HARSAC (HARYANA SPACE APPLICATIONS CENTRE)

- Provision of GIS Mapping in the web portal of 2nd round of Sero Survey.
- Provision of District wise spot mapping of Sero Survey.
- Facility to view the real time location of survey teams.
- Provision of Test result-based color coding on the map.

ANNEXURE - 2

STANDARD OPERATING PROCEDURE (SOP)

1. **Purpose:** This SOP describes the procedure for Sero-surveillance for COVID-19 for Haryana
2. **Scope:** This SOP is intended for use by trained health staff or personnel who would be conducting antibody testing for COVID-19 by ELISA, using intravenous blood from the study participants.
3. **Roles and Responsibilities:** Trained health staff or personnel will be responsible for verbal consent, history elicitation, IV blood withdrawal, blood collection, transportation and testing for antibodies for COVID-19.
4. **Requirements for sample collection and testing**
 - **Personal Protective Equipment (PPE)**
 - Gloves (disposable, nitril/ vinyl) of appropriate size
 - Surgical mask (N95 mask, Goggles/ face shield, Closed-toe shoes/ footwear with disposable shoe covers, Laboratory gown; if testing in hospitals)
 - Permanent markers and sticking labels / Bar codes
 - 70% alcohol cotton swabs,
 - 10 ml syringes and 21gauge needles/ Vacutainers and Tourniquettes
 - Dry cotton balls
 - Soap and water or Alcohol-based hand sanitizer
 - CIF hard copies (as a back-up for Mobile app)
 - Biomedical waste equipment like Hub and Needle cutter (Non-electric), color coded waste bags with label stickers and strings to tie the bags
 - ELISA Rapid antibody test kits (with pipette/dropper, sample diluents buffer situation)
5. **General Precautions**
 - The personnel performing interview and drawing blood should wear appropriate PPE
 - Universal precautions should always be followed during collection and processing of blood specimen
 - Laboratory accidents and injuries should immediately be reported to designated supervisory staff/lab director/hospital authority
 - Bio-waste should be managed and disposed in accordance with national guidelines
6. **Procedure for Blood sample collection**
 - ✓ Gather all supplies required and arrange them neatly
 - ✓ Wear appropriate PPE before starting sample collection. Perform hand hygiene using soap and water or alcohol-based hand sanitizer with change of gloves before collection of samples from every study participant

Ask the participant to be seated comfortably if possible, and in good light. People from neighborhood should not be allowed to crowd the place.

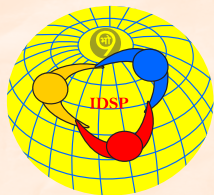
- ✓ Verify his/her identity by asking the full name, mobile number and
- ✓ Seek informed consent for study participation and sample collection
- ✓ Explain the sample collection procedure to the participant
- ✓ Find appropriate vein preferable left ante-cubital area. Apply tourniquets in upper arm four fingers above the possible site to puncture. Build the vein. clean the site with spirit cotton swab. Let it dry for few seconds. Prepare the syringe and needle/ vacutainer taking care not to touch the needle area. Insert the needle carefully and withdraw the blood. After 5 ml blood is withdrawn, carefully withdraw the needle carefully and apply the dry swab immediately over the swab apply gentle pressure. Ensure that no drop of blood fell on the ground or over the body of the person. Keep the punctured site for atleast one minute. Check after one minute if bleeding has stopped. Take of the bloodstained swab and put in the biomedical waste yellow bag. Apply fresh clean dry swab over the punctured site/or apply plaster bandaid over puncture site that the person can remove next day.
- ✓ Appropriately label the vial/ vacutainer OR apply the bar code. Note the corresponding information in your hard copies and in the software given to you. Make sure that ID number in the survey form, over the blood vial/ vacutainer and in the data sheet/ software match.
- ✓ Before moving to the next house, pay thanks to the family and ensure no waste generated by your activity (biomedical or municipal waste) gets scattered anywhere in the house or community. You need to put it properly in appropriate color-coded bags, and carry it to your respective health facility/ district for disposal as per the guidelines.

Advice on testing result

This test is not diagnostic; it tells if there is already developed immunity against COVID-19. Positive result: Consult doctor for interpretation. If symptomatic, consider RT-PCR testing (Complete quarantine; if already in quarantine) If non-symptomatic, observe social distancing and cough etiquettes. Negative result: Observe social distancing and cough etiquettes.

REFERENCES

1. *WHO Coronavirus Disease (COVID-19) Dashboard: <https://covid19.who.int/>.*
2. *Coronavirus disease 2019 (COVID-19). Situation Report – 191, 2020. WHO.*
3. *Stringhini S, Wisniak A, Piumatti G, Andrew S Azman et al. Seroprevalence of anti-SARS-CoV-2 IgG antibodies in Geneva, Switzerland (SEROCoV-POP): a population-based study. The Lancet (2020).*
4. *Eckerle I, Meyer B. SARS-CoV-2 seroprevalence in COVID-19 hotspots. Lancet.*
5. *Fiona P. Havers, Carrie Reed, Travis Lim et al. Seroprevalence of Antibodies to SARS-CoV-2 in 10 Sites in the United States, March 23-May 12, 2020. <https://jamanetwork.com/> on 07/30/2020.*
6. *Banaji M. What Do the Delhi and Mumbai Sero-Survey Results Tell Us About COVID-19 in India? Science the Wire. July 2020.*
7. *List of Companies / Vendors of Rapid Antigen Test Kits for COVID-19 validated/ being validated by ICMR. https://www.icmr.gov.in/pdf/covid/kits/List_of_rapid_antigen_kits_28072020.pdf*



COVID-19 **SERO SURVEY** *in* **HARYANA**

INTEGRATED DISEASE SURVEILLANCE PROGRAMME (IDSP)

HEALTH DEPARTMENT, HARYANA