

# CONTRIBUTION TO THE COMMUNITY DURING THIS PANDEMIC COVID-19

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**KILLING  
CORONAVIRUS  
COVID-19**



INDIAN  
INSTITUTE OF  
PUBLIC HEALTH  
GANDHINAGAR

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Alumni IIPHG





## PREFACE

The interns of the AMC Dental College are the actual front line corona warriors of these two Covid 19 field projects. IIPHG is proud to have alumni such as Dr.Ashish Sharma, who have been pivotal part of the surveillance team of these two eminent projects in red zone areas of Ahmedabad city for Corona virus infection implemented by the interns of the AMC Dental College to serve the community despite the situation of COVID-19 pandemic.

Dr.Ashish is presently working as Lecturer in Department of Public Health Dentistry at AMC Dental College and Hospital, Khokhara, Ahmedabad. **“The sky is not the limit; the mind that sees the sky is the limit”**; the interns of AMC Dental college has imitated this quote guided by the surveillance team consisting of Dean, Dr. Dolly Patel, Dr. Ashish Sharma, Dr.Vipul Munia, Dr. Dhairya Shah and Dr. Dhawal Prajapati. They have modified their minds and capacities to work beyond their horizons of dentistry to achieve this mammoth task in a prolific manner. They have done two projects consecutively with full vigor and enthusiasm, whenever called for field duty for Covid-19 infection as mentioned below:

1. Covid-19 duty at thirteen Corona Check Posts in cluster quarantined Red Zone areas of Ahmedabad.
2. Covid 19 duty with a different challenge at twenty three wards in South, Northwest, Southwest and Central Zone of Ahmedabad.

Dr. Ashish has also worked at Control Room for G-17 OPD of AMC at Covid 19 Civil Hospital, Ahmedabad for period of nine days from 19 July to 27 July 2020.



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## **Covid 19 Duty (Interns of AMC Dental College and Hospital)**

COVID - 19 is a respiratory illness caused by a novel corona virus called SARS-CoV-2. This is a Pandemic disease affecting almost all countries of the world. This illness continued to surge in India. The Gujarat state is also highly affected with number of fresh cases rising rapidly day by day. The city of Ahmedabad is severely affected with this illness having highest number of cases in Gujarat. In order to prevent the further spread of illness, the city was divided into the hotspot and red zone areas having maximum number of cases.

**“The sky is not the limit; the mind that sees the sky is the limit”**

The intern students of AMC Dental College has imitated this quote and they have envisaged this task of working in pandemic situation for Covid 19 infection. They have modified their minds and capacities to work beyond their horizons of dentistry to achieve this mammoth task in a prolific manner. They have done two projects consecutively with full vigor and enthusiasm, whenever called for field duty for Covid 19 infection.

**1** — *Covid 19 duty at thirteen Corona Check Posts in cluster quarantined Red Zone areas of Ahmedabad*

**2** — *Call for Covid 19 duty with a different challenge at twenty three wards in South, Northwest, Southwest and Central Zone of Ahmedabad*





## PROJECT I

### **Covid 19 duty at thirteen Corona Check Posts in cluster quarantined Red Zone areas of Ahmedabad**

In order to contain the further dissemination of corona virus infection, **thirteen check posts** were created in cluster quarantined containment red zone areas of the walled city in the wards of **Jamalpur, Khadia, Dariyapur, Kalupur and Shahpur**. These areas in the walled city are worsely affected with highest number of the incidence of cases of Corona virus infection. The cluster sampling of the population in these hot spot areas was done to contain and assess the community transmission of the infection. These check posts were one of the constituent of a proactive approach by AMC called as EPIC approach consisting of Enhanced testing, Intensive surveillance, Proactive detection and Corona checkpoints.

The ultimate planning and implementation of Corona check post at thirteen designated areas in red zones was done at Aarogya Bhawan on 7th of April followed by training of interns. The interns were called for the tough field duty, which they accepted valiantly with extreme passion. The **Dean of AMC Dental College and Hospital, Dr. Dolly Patel, appointed three Doctors namely Dr. Ashish Sharma, Dr. Vipul Munia and Dr. Dhaval Prajapati** for the supervision, management and coordination of the team of 80 interns, who worked zealously day and night in three shifts from **5am to 12pm, 12pm to 6pm and 6pm to 12 pm** daily on rotation basis at these thirteen check posts from **9 April to 28 April 2020**.

**The whole concept of these check posts was the surveillance and detection of the suspected cases of corona virus infection having symptoms along with thermal screening of the people residing in these hotspot areas.** The medical checkup of every person entering or exiting the walled city at the following thirteen check posts was done.

**The thirteen check posts in walled city of Ahmedabad are as follows:**

1. VICTORIA GARDEN, ELLIS BRIDGE
2. PHOOL MARKET, SARDAR BRIDGE
3. JAMALPUR DARWAJA
4. ASTODIA DARWAJA
5. RAIPUR DARWAJA
6. SARANGPUR DARWAJA
7. PANCHKUVA
8. RELIEF ROAD
9. KALUPUR DARWAJA
10. PREM DARWAJA
11. DARIYAPUR DARWAJA
12. DELHI DARWAJA
13. SHAHPUR DARWAJA



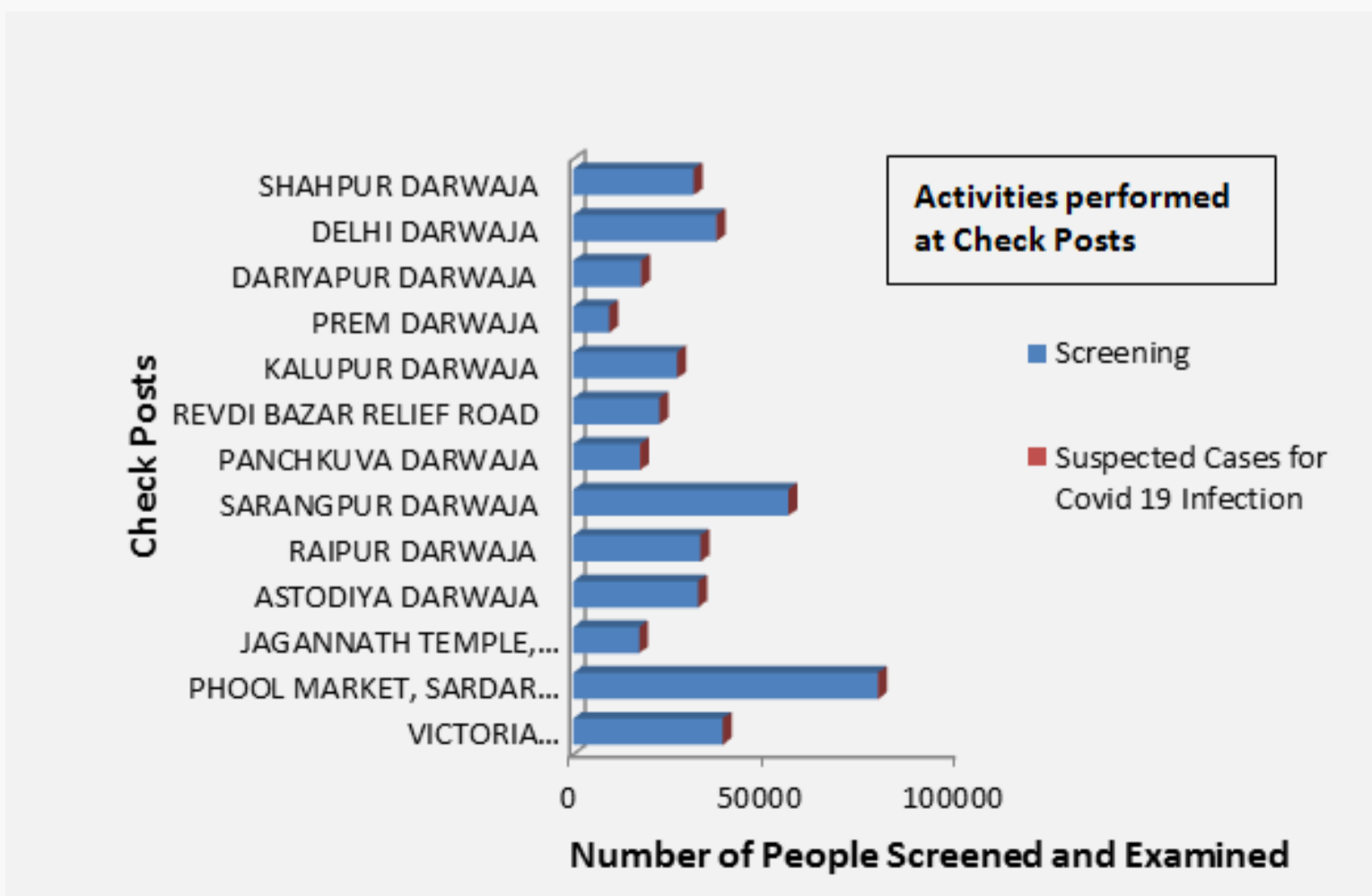
During screening, if person has fever or cough or breathlessness, he or she is referred to nearby urban health centre for further examination and investigation. If the concerned medical officer after examination detects symptoms suspected for corona virus infection, that person is immediately taken for sample collection at nearby urban health centres or designated covid hospitals in medical van.

**This practice helped in intensive surveillance in detecting large number of Corona patients in lesser time period.** The active screening of **total number of 287826 persons** was done from **9 April to 28 April 2020** at these checkpoints as shown in **Table 1 and Graph 1**. Out of these, **491 number of patients** were identified as suspected for corona virus infection, which were then referred to nearby urban health centres for appropriate testing and treatment.

Table 1: Total number of persons screened and identified as suspected for Covid 19 infection at thirteen Check Posts from 9 April to 28 April 2020:

Check Posts	Activities performed at Check Posts	
	Screening	Suspected Cases for COVID 19 Infection
VICTORIA GARDEN, ELLISBRIDGE	38829	29
PHOOL MARKET, SARDAR BRIDGE	79110	131
JAGANNATH TEMPLE, JAMALPUR DARWAJA	17145	25
ASTODIYA DARWAJA	32458	18
RAIPUR DARWAJA	33013	79
SARANGPUR DARWAJA	55819	68
PANCHKUVA DARWAJA	17416	23
REVDI BAZAR RELIEF ROAD	22415	22
KALUPUR DARWAJA	26930	50
PREM DARWAJA	9398	8
DARIYAPUR DARWAJA	17619	130
DELHI DARWAJA	37246	58
SHAHPUR DARWAJA	31238	75
GRAND TOTAL	287826	491

Graph 1: Activities performed at Check Posts





## PROJECT II:

### Call for Covid 19 duty with a different challenge at twenty three wards in South, Northwest, Southwest and Central Zone of Ahmedabad

The city of Ahmedabad has already been declared as hotspot for Corona Virus infection. The **“Super Spreaders”** in the city contracted corona virus infection to a larger extent in lesser time period. In reference to the report published by Times of India/PTI on May 16,2020;18:35 IST (Source: <https://timesofindia.indiatimes.com>), At least 700 “Super spreaders” were found corona virus positive in Ahmedabad in massive screening of vegetable sellers and shopkeepers between May 7 and 14. **“Super Spreaders”** are potential carriers of the viral infection who could infect a large number of people coming in their contact. They could be vegetable vendors, grocery and milk shop owners, petrol pump attendants or garbage collectors, who by the nature of their job carry the risk of contracting and spreading the viral infection.

In order to contain the dissemination of corona virus infection in the community through **“Super Spreaders”**, the Ahmedabad Municipal Corporation launched a massive campaign at various urban health centres and wards in different zones of Ahmedabad. The purpose of this campaign was massive screening, intensive surveillance (Identification of suspected patients for corona virus infection), enhanced testing and issuance of health screening cards. The ultimate aim was that the people should buy only from vendors or shopkeepers who carry **“health screening cards”**. These cards will be renewed at regular intervals. This activity was also in continuum of the **EPIC approach consisting of Enhanced testing, Intensive surveillance, Proactive detection and Corona checkpoints by AMC.**

The AMC Dental College and Hospital was assigned this task at **23 wards in South Zone, South West Zone, North West Zone and Central Zone.** This assignment was implemented and fulfilled by the team of 80 interns who worked relentlessly under the supervision and constant management of four doctors namely **Dr.Ashish Sharma, Dr. Vipul Munia, Dr. Dhairya Shah and Dr. Dhawal Prajapati**, appointed by the **Dean, Dr. Dolly Patel.** This activity was carried out from **4 May to 20 May 2020** at respective wards and urban health centres in all four zones as mentioned below:

<b>South Zone (8 Wards)</b>	<b>South West Zone (4 Wards)</b>	<b>North West Zone (5 Wards)</b>	<b>Central Zone (6 Wards)</b>
1. Khokhra	1. Maktampura	1. Gota	1. Shahibaug
2. Maninagar	2. Vejalpur	2. Chandlodia	2. Asarwa
3. Indrapuri	3. Sarkhej	3. Ghatlodia	3. Dariyapur
4. Isanpur	4. Jodhpur	4. Bodakdev	4. Dudheshwar (Shahpur)
5. Vatva		5. Thaltej	5. Khadiya
6. Lambha			6. Jamalpur
7. Behrampura			
8. Danilimda			





The following activities were carried for “Super Spreaders” out at these wards in all four zones as shown in Table 1 and Graph 1:

1. Screening of persons was done by measuring temperature through thermal guns. The total numbers of 32065 persons were screened at all four zones.
2. The suspected patients for viral infection having fever, sore throat and difficulty in breathing were identified and advised for home isolation with pasting of stickers by the estate team at their homes for appropriate treatment and sample collection for covid 19 testing. The patients having extreme intensity of symptoms were immediately taken to nearby designated Covid hospitals in a medical van. The total numbers of 30 persons were identified as suspected in all four zones.
3. The Health Screening Cards were issued to persons who were asymptomatic having normal temperature, which were also later renewed at regular intervals. The total number of 26233 health cards were issued at all four zones and total number of 6438 health screen cards were renewed after screening.
4. Rapid kit testing and Swab collection was done for the patients, who were symptomatic for viral infection at various wards by designated teams during specific time period.
5. Green Cards were later issued to the people who were tested negative for Rapid kit test and Swab collection. The total numbers of 821 Green cards were issued at all four zones.

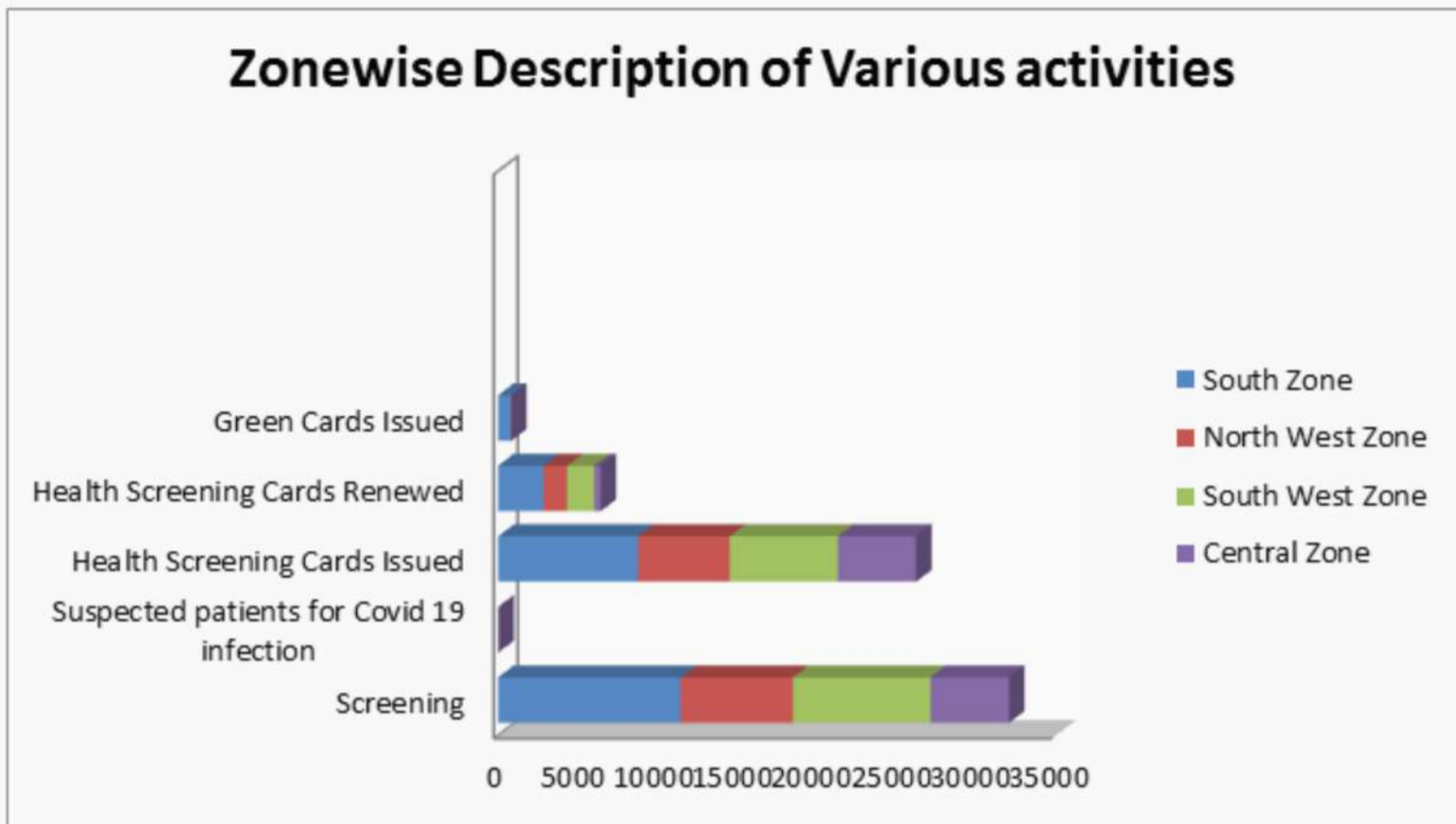
**Table 1: Description of various Tasks performed at 23 wards in Four Zones of Ahmedabad from 4 May to 20 May 2020**

ZONES	Various Tasks Performed at all wards				
	Screening	Suspected patients for Covid 19 infection	Health Screening Cards Issued	Health Screening Cards Renewed	Green Cards Issued
South Zone	11463	08	8777	2854	796
North West Zone	7051	05	5748	1478	25
South West Zone	8615	02	6782	1703	00
Central Zone	4936	15	4926	403	00
<b>Grand Total</b>	<b>32065</b>	<b>30</b>	<b>26233</b>	<b>6438</b>	<b>821</b>





Graph 1: Zone wise description of various activities at all zones



The ultimate aim of all these activities at these wards was to break the chain of dissemination of Corona Virus infection in the community.

Legend



From Left to Right: Dr.Ashish Sharma, Dr.Dhairya Shah, Dr.Dolly Patel ( Dean, AMC Dental College and Hospital), Dr. Vipul Munia and Dr. Dhawal Prajapati (Team Leaders of the surveillance team)









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