

Summer Training

At

**Impact Guru**

From date 06/05/2021 to 02/07/2021

A Report

**Covid-19 Vaccine hesitancy among people of age group  
(18 years and above) in India**

By

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MBA Healthcare and Hospital Management

**2020-2022**





**TO WHOMSOEVER IT MAY CONCERN**

**Date: 2<sup>nd</sup> July 2021**

This is to certify that **Dr. Poorvi Bangar** has successfully completed her tenure as a Business Development Consultant from 6<sup>th</sup> May 2021 to 2<sup>nd</sup> July 2021 at Impact Guru Technology Ventures Pvt.Ltd. her performance during the tenure was found to be good.

We wish her all the very best for her future endeavors.

A handwritten signature in blue ink, appearing to read "Sandeep Kumar Tripathy", is written over a faint, larger version of the same signature.

Regards,

Sandeep Kumar Tripathy  
(Senior VP Business Development)  
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## **Acronyms:**

SARS CoV 2 - Severe Acute Respiratory Syndrome Coronavirus 2

WHO - World Health Organization.

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## **1. Observational Learning:**

### **1.1) Organization Profile:**

Impact Guru is one of the crowd fundraising platforms in India that is a nonprofit non-governmental organization and offers global crowdfunding. It was founded in the July 2014 and was launched by Mrs. Maneka Gandhi in the year 2015. It helps anyone raise money for medical, social, or personal causes. It has already helped Rs. 1500+ crore for 5,00,000+ individuals and organizations who needed fund for various medical emergencies like transplants, cancer treatments, pediatric treatments, neonatal and trauma cases. It was incubated at Harvard Innovation Lab in USA in 2014. It believes that small amount of money and large number of donation people can easily raise the fund and help many people in their treatments.

Impact Guru is an online crowdfunding platform that has helped many patients raise money successfully for various medical treatments. Crowdfunding offers an easy way to anyone facing a medical emergency to raise funds through donations from their friends, family, and network without adding any financial burden. From doctor's bills to expensive medications and tests, treatments, and even surgeries, crowdfunding offers patients and their families' immediate financial assistance, by starting a fundraiser for their treatment.

The organization have been working closely with several top Hospitals namely Apollo Hospital Group, Fortis Hospitals, Gleneagles Global Hospitals Group, Max Healthcare, Aster Hospitals Group, and many others.

### **Ongoing Projects:**

- Fundraiser has been started for patient battling with COVID 19 and approximately Rs.10,65,000 out of Rs. 50,00,000 has been raised within 7 days.
- Fundraiser has been started for patient battling with breast cancer and approximately Rs.6,66,000 out of Rs. 70,00,000 has been raised within 5 days.

- Fundraiser has been started for patient battling with T- cell Acute Lymphoblastic Leukemia and approximately Rs.4,69,000 out of Rs. 1,00,00,000 has been raised within 2 days.
- Fundraiser has been started for patient battling with post- COVID 19 complications and approximately Rs.3,48,000 out of Rs. 50,00,000 has been raised within 2 days.
- Fundraiser has been started for patient battling with Acute Myeloid Leukemia and approximately Rs.2,91,000 out of Rs. 15,00,000 has been raised within 7 days.

Core Values I have learnt from the organization:

- Teamwork
- Ethics.
- Excellence
- Trust
- Integrity
- Continuous work
- Client welfare.

## 2. Project Report

### *Covid-19 Vaccine hesitancy among people of all age group (above 18+) in India.*

#### 2.1) Abstract:

**Background and objective:** Covid 19 disease, which lead to a global pandemic, is said to be caused by SARS COVI 2, that is a novel zoonotic virus emerged from Wuhan, China. Due to this the whole world suffered from huge toll of morbidity, mortality, and economic loss. To slow down or halt the spread of the disease, the success of vaccination program is necessary. The best way to avoid mortality, morbidity & serious complications is by creating heard immunity; for which vaccination program is best intervention. The study is conducted to assess the awareness and sources of vaccine information, attitudes, and possible factors of COVID-19 vaccine hesitancy among people of age group 18 years and above in India. This study is an attempt to understand people's perceptions of the corona epidemic and to investigate the causes of human skepticism. In addition, this study aims to shed light on the level of safety and efficacy of the covid 19 vaccine available to combat the ongoing Corona epidemic.

**Methodology:** Purposive sampling technique was adopted to perform the study. A total of 100 individuals responded to the set of questions which was forwarded to them using online social media platforms in the month of July 2021.

**Result:** Participatory research shows that participants found more worried about the efficiency & of the vaccine. About 79% of the people believe that the vaccine will be without any serious complications and 66% of people believe it will work. Uncertainty of about 17% regarding safeness & 31% for efficiency was noticed. Around 87% individuals have got vaccinated and COVISHIELD and COVAXIN vaccine are mostly preferred.

**Conclusion:** With the help of mass campaigns, timely communication efforts, educational campaigns, endorsement of community and political leaders, public figures, can level up and boost the confidence level of people to get out of all the social stigmas spread in the society



against the corona vaccine. Along with wearing masks and social distancing, the vaccine is equally necessary to help prevent ,spread of this deadliest virus.

**Keywords:** COVID 19, vaccine hesitancy, Herd immunity, COVISHIELD, COVAXIN, Sputnik V.

## 2.2) Introduction

Vaccination is one of the health-changing interventions of the 21st century. Apart from having various positive aspects, it faces various challenges around the world. Some of the factors includes demographics, social class, geography, nationality & most importantly the acceptance of vaccines among people (Larson ET AL. 2014, 2018; Wong and Xiao, 2020, COOPER ET AL. 2019; Habsasaat and JACKSON 2020;). According to the report public perception is the greatest barrier to drug adoption, Harmsen et al., 2013. Currently, various reports- articles on the acceptance of the Corona vaccine is limited. The results of the study done by us shows, the vaccination rate was 87%, which is consistent with the results of research projects of USA and China. According to a study in USA 80% of the general population had accepted the vaccine, THUNSTROM et al, 2020. A well as in China 72.5% of people have accepted immunizations(Fu et al, 2020). The report of our study shows that vaccination rates (87%) among population were high as seen in other subjects such as France 59%, Russia 54%, Poland 56% Suth Africa 64%,(IPSOS, 2020). The results of this study were found to be same with similar findings IPSOS study, in which they found an 87% drug acceptance rate in India (IPSOS, 2020).

## 2.3) **Rationale:**

India has seen a major explosion in Covid 19 cases despite of putting lockdowns, restrictions over travelling, social distancing, and other security measures. The basic strategy to treat and

prevent this deadly virus is vaccination. However, skepticism about the vaccine has been among the topmost risks to the health of the public according to the World Health Organization due to the human immunodeficiency virus. This has led to damage to the vaccination process and has created a roadblock to achieve complete vaccination goals. While waiting for the covid 19 vaccine, it is important to understand why people have become reluctant towards covid 19 vaccine as it can help health workers to increase awareness about the drug and reduce the spread of the virus.

Regarding strategies to promote the adoption of vaccines, the results shows that more than half of the population is worried about vaccine's safety and effectiveness. If more research is done to test the safety percentage and efficacy of vaccine, there will be more acceptance for vaccine. Among the population surveyed, 87% of people would choose to be vaccinated if the vaccine were provided free of charge by the Government. These findings contrasted with the observations of Harapan et al. (2020) those who reported that 65% of people from Indonesia would choose 50% effective vaccine if given free of charge (Harapan et al., 2020). This study was conducted using a self-contained questionnaire (online) and therefore had some limitations. Factors such as access to social media platforms, internet sources availability may have a direct impact on people. As a result, a selection of options must be considered. Our study has several limitations. First, the number of respondents was very high (about 85%) among well educated people, and more than 3/4<sup>th</sup> of respondents were found to be in the age group of 19-44 years. The visible part of the answer. It is uncertain that 'vaccine beliefs may be rooted in vaccine-related rumors among people.

**Research question:**

What is the source of information & awareness level , attitudes and possible factors determining the hesitancy for Covid- 19 vaccine among people of all ages in India?

**Objectives:**

The study is conducted:

- To assess the sources of vaccine information, awareness & attitudes
- To know the factors of Corona vaccine hesitancy among people
- To shed light on the level of efficiency & safety of the COVID 19 vaccine.

#### 2.4) Literature Review:

Table 2.4 showing literature review of the articles

| S.No<br>. | Authors                                                     | Year | Title                                                                        | Objective                                                                                                                | Methodology                | Main findings                                                                                                                                                                                                                                                                                                                            |
|-----------|-------------------------------------------------------------|------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.        | Arvind V<br>Athavale                                        | 2021 | Covid 19<br>vaccine                                                          | The study<br>aims to<br>analyze the<br>level of herd<br>immunity<br>required for<br>protection<br>against SARS<br>CoV-2. | Descriptive<br>study       | <p>The protective level of herd immunity against COVID-19 would be highly unethical to achieve through natural infections. Thus, vaccine is the most important preventive intervention to achieve the same.</p> <p>- Attempts should be made to remove it skepticism about vaccination, health worker training and vaccination cover</p> |
| 2.        | Khan<br>Sharun, C.<br>K. Faslu<br>Rahman, C.<br>V. Haritha, | 2020 | Covid-19<br>vaccine<br>acceptance :<br>barriers and<br>beliefs<br>associated | study aims to<br>analyze the<br>myths and<br>barriers<br>associated<br>with vaccine                                      | A cross<br>sectional study | <p>Research has shown –</p> <p>- Concerns among respondents regarding the</p>                                                                                                                                                                                                                                                            |

|    |                                                                                                |      |                                                                                                                                              |                                                                                                                                                               |                      |                                                                                                                                                                                            |
|----|------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Bosco Jose,<br>Ruchi<br>Tiwari,<br>Kuldeep<br>Dhama                                            |      | with<br>vaccination<br>among the<br>population<br>(general) in<br>India.                                                                     | for COVID-<br>19 among<br>many people<br>in India.                                                                                                            |                      | potential safety and<br>efficacy of the<br>vaccine thus<br>generating an idea<br>for interventions to<br>improve vaccine<br>standards.                                                     |
| 3. | Kamala<br>Thiagarajan                                                                          | 2021 | COVID-19:<br>India is at the<br>center of<br>global<br>vaccine<br>manufacturin<br>g, but public<br>trust is<br>threatened by<br>the opacity. | The study to<br>assess the<br>lack of<br>transparency<br>and hurried<br>approval of<br>the vaccine<br>has<br>threatened to<br>undermine<br>domestic<br>trust. | Descriptive<br>study | -The confusion<br>arose due to a lack<br>of transparency<br>surrounding<br>temptations, and<br>the failure to<br>communicate the<br>mind<br>after immediate<br>approval of the<br>vaccine. |
| 4. | R. K.<br>Shrivastava,<br>Pranab Ish<br>and<br>Safdarjung<br>(Covid-19<br>vaccination<br>group) | 2021 | The<br>experience of<br>Covid -19<br>vaccination in<br>a tertiary<br>healthcare<br>center<br>initially in<br>India.                          | the level of<br>efficacy &<br>safety of the<br>COVID 19<br>vaccine and<br>adverse<br>events that<br>follow..                                                  | Descriptive<br>study | The first<br>experience is that<br>COVAXIN is a<br>safe and tolerant<br>vaccine<br>a small and small<br>impact profile.<br>There is a need to<br>build trust and<br>confidence<br>between  |

|    |                                                                                                                    |           |                                                                                                            |                                                                                                                    |                       |                                                                                                                                                                                                                                      |
|----|--------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                    |           |                                                                                                            |                                                                                                                    |                       | beneficiaries are not eligible to extend the benefits of the vaccine to control the current epidemic.<br>The effectiveness of COVAXIN can only be determined by long-term follow-up and after studies find a second dose of vaccine. |
| 5. | Manoj Kumar,<br>Pankaj Bharadwaj,<br>Akhil Dhanesh Goyal ,<br>Suman Sourabh,<br>Pankaj Ravi Raghav,<br>Jyoti Jain. | 2021      | Covid 19 vaccine hesitancy results from a nationwide survey among undergraduate medical students in India. | The study is intended to test the skepticism of the vaccine as well related features among Indian medical students | Cross sectional study | Targeted awareness campaigns, policy control management and community outreach of data security could skepticism of vaccination.                                                                                                     |
| 6. | Ashish Kumar,<br>Prayas Sharma,<br>Anukriti                                                                        | Year 2020 | Assessment of awareness & knowledge in Indian                                                              | The study aims to determine the threat, & symptoms                                                                 | Cross sectional study | the community travel on their two wheels or on public buses, which are in a threat of                                                                                                                                                |

|    |                                                                     |      |                                                                                                                                    |                                                                                                                 |                                       |                                                                                                                                                                                                                                                        |
|----|---------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Sharma,<br>Bharti<br>Agarwal.                                       |      | Society about<br>Covid 19..                                                                                                        | with<br>prevention<br>measure of<br>Corona virus<br>in the Indian<br>population.                                |                                       | infection, so the<br>government should<br>be very careful<br>regarding<br>cleanliness in<br>public areas. With<br>their own safety<br>measures like<br>naturopathy, social<br>isolation the govt.<br>must take<br>necessary<br>preventive<br>measures. |
| 7. | Praveen Sva,<br>Jyoti<br>Tandon,<br>Vikas Hitesh<br>Hinduja         | 2021 | Perspective<br>of citizens of<br>India about<br>side effects of<br>vaccine for<br>corona virus,<br>a machine<br>learning<br>study. | It examines<br>the situation<br>of citizens of<br>India with the<br>aftereffects of<br>vaccine for<br>covid 19. | - python<br>- Sentimental<br>analysis | - approximately<br>78.5% of the<br>citizens have<br>tweeted about<br>adverse reaction of<br>the vaccine were<br>not negative.                                                                                                                          |
| 8. | Hilal Hamid,<br>Mira<br>Subeena,<br>Parveen,<br>Naushad ul<br>Haque | 2021 | People's<br>intention &<br>attitude<br>towards<br>vaccination<br>for covid 19                                                      | The study<br>aims to<br>identify<br>critical<br>factors that<br>contribute to                                   | Cross sectional<br>study              | The intentions to<br>take vaccine for<br>corona virus were<br>largely influenced<br>by the ideas &<br>attitude of people                                                                                                                               |

|     |                                                                                 |           |                                                                                                       |                                                                                                                  |                                                                       |                                                                                                                                                                                  |
|-----|---------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | Mullicka,<br>Shazia Nabib                                                       |           | through structural equational modelling.                                                              | the minds & intentions of the Indian people for the vaccine.                                                     |                                                                       | towards the importance and benefits of taking vaccination dosage of their attitude and ideas of Covid-19 vaccine, which strongly confirms the importance of the various dosages. |
| 9.  | Sandip Mandal,<br>Nimalan Arinaminpathy, Balram Bhargava, Samiran Panda         | 2021      | A mathematical modelling based analysis showing the vaccination strategy against SARS CoV-2 in India. | Investigate the impact of targeted vaccination on disease & deaths as well the incidence of SARS CoV-2 in India. | A systematic age model describing the transmission of virus in India. | - Properly targeted vaccination strategy will prove a significant reduction in the impact of virus in India .                                                                    |
| 10. | Sakshi Chopra,<br>Piyush Ranjan, Archana kumari, tanveer , divyajot kaur Kamal, | Year 2021 | Indians thinking about Corona vaccine- a qualitative study with discussions & analysis.               | To translate current knowledge, opinions & attitudes concerns of Indian population towards the                   | qualitative study                                                     | People have a mixed opinion about the COVID-19 vaccine. Proper messaging can increase people's willingness to be vaccinated.                                                     |



|  |                                                                                                          |  |  |                    |  |  |
|--|----------------------------------------------------------------------------------------------------------|--|--|--------------------|--|--|
|  | Astha goyal,<br>kalanidhi, K.<br>Vikram,<br>Prakash<br>naval,<br>Upendra<br>baitha,<br>amandip<br>singh. |  |  | Corona<br>vaccine. |  |  |
|--|----------------------------------------------------------------------------------------------------------|--|--|--------------------|--|--|

## 2.5) **Methods and Materials:**

### **Research Methodology:**

*Study design:* Observational cross- sectional survey.

*Sample size:* Purposive sampling technique was adopted to perform the study. A total of 100 individuals responded to the set of questions for survey which was shared with them using online social media platforms in the month of July 2021.

*Sampling:* Data was collected using set of certain questions which was shared with the people using online social media platforms in the month of July 2021. Primary data was collected to answer the first two objectives and third objectives is answered based on secondary data.

*Analysis:* Data was entered in MS Excel and data was analyzed and summarized in the forms of tables and graphs.

*Inclusion Criterion:* Data is collected of the participants of age 18 and above.

*Exclusion Criterion:* Data is not collected of the participants of age below 18 years.

*Errors:* Some biases might be present because the data has been collected after vaccination drive, as people thinking towards vaccination got changed during time.

### *About the Questionnaire:*

The outline of the questionnaire is based on the most common questions coming across the mind of every individual. It consists of 11 questions in total which includes 4 basic criterion, that is-

- Socio-demographic factors
- Beliefs related to the COVID 19 vaccine
- Acceptance of the COVID 19 vaccine.
- Potential barriers may prevent vaccination.

## 2.6) Data collected from the electronic questionnaire (sample size=100):

| Age   | Gender | Occupation | COVID 19 vaccine is safe? | COVID 19 vaccination would be effective? | the complication of corona virus can be avoided by vaccine | Have you get vaccinated for COVID 19? | If no, then do you plan to get vaccination | you prefer which type of vaccine and think is safe and effective | Barriers that may prevent from taking vaccination? | Preferred source to get all the updates and information |
|-------|--------|------------|---------------------------|------------------------------------------|------------------------------------------------------------|---------------------------------------|--------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|
| 18-44 | Female | student    | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | COVAXIN                                                          | 1,2                                                | 2,3                                                     |
| 18-44 | Female | student    | Yes                       | Yes                                      | Yes                                                        | Yes                                   | Yes                                        | COVISHIELD                                                       | 1,2                                                | 1,2,3,4                                                 |
| 18-44 | Male   | employed   | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | COVISHIELD                                                       | 7                                                  | 1,2,3,4                                                 |
| 18-44 | Male   | student    | Yes                       | Yes                                      | Yes                                                        | Yes                                   | No                                         | COVAXIN                                                          | 1                                                  | 2                                                       |
| 18-44 | Female | student    | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | COVISHIELD                                                       | 1                                                  | 1,3                                                     |
| 18-44 | Male   | employed   | Yes                       | Yes                                      | Maybe                                                      | Yes                                   |                                            | COVISHIELD                                                       | 1,2                                                | 1,2,3,4                                                 |
| 18-44 | Male   | employed   | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | COVISHIELD                                                       | 1,2                                                | 1,2                                                     |
| 18-44 | Female | employed   | Maybe                     | Maybe                                    | Maybe                                                      | No                                    | Maybe                                      | SPUTNIK V                                                        | 1                                                  | 4                                                       |
| 18-44 | Male   | employed   | Maybe                     | Maybe                                    | Maybe                                                      | No                                    | Maybe                                      | COVISHIELD                                                       | 1                                                  | 2                                                       |
| 18-44 | Male   | student    | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | All of the above                                                 | 7                                                  | 2                                                       |
| 45-60 | Male   | employed   | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | COVISHIELD                                                       | 9                                                  | 1                                                       |
| 18-44 | Male   | employed   | Yes                       | Maybe                                    | Yes                                                        | Yes                                   |                                            | COVISHIELD                                                       | 1                                                  | 2,4                                                     |
| 18-44 | Female | employed   | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | COVISHIELD                                                       | 1                                                  | 4                                                       |
| 18-44 | Male   | employed   | Yes                       | Yes                                      | Yes                                                        | Yes                                   | Yes                                        | COVAXIN                                                          | 1                                                  | 1,2,3                                                   |
| 18-44 | Female | unemployed | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | COVAXIN                                                          | 1                                                  | 2                                                       |
| 18-44 | Male   | student    | Yes                       | Yes                                      | Yes                                                        | Yes                                   |                                            | COVISHIELD                                                       | 1                                                  | 1,2                                                     |
| 18-44 | Female | employed   | Maybe                     | Maybe                                    | Maybe                                                      | No                                    | Yes                                        | SPUTNIK V                                                        | 1                                                  | 1                                                       |

|       |        |            |       |       |       |     |     |            |         |         |
|-------|--------|------------|-------|-------|-------|-----|-----|------------|---------|---------|
| 18-44 | Male   | employed   | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 1       | 2       |
| 18-44 | Male   | student    | Yes   | Yes   | Yes   | Yes | Yes | COVISHIELD | 2,3,5   | 2       |
| 18-44 | Female | employed   | Yes   | Maybe | Yes   | Yes |     | COVISHIELD | 1       | 2       |
| 18-44 | Female | student    | Yes   | Yes   | Yes   | Yes | Yes | COVAXIN    | 9       | 1       |
| 45-60 | Female | employed   | No    | Yes   | Yes   | Yes | Yes | COVISHIELD | 2       | 2       |
| 60+   | Female | employed   | No    | No    | Yes   | Yes | Yes | COVAXIN    | 7       | 1       |
| 18-44 | Male   | employed   | Yes   | Yes   | Maybe | Yes | Yes | COVAXIN    | 1       | 3       |
| 18-44 | Male   | employed   | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 6       | 1,2     |
| 18-44 | Male   | employed   | Maybe | Maybe | Maybe | No  | Yes | SPUTNIK V  | 1       | 2       |
| 18-44 | Female | employed   | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 1       | 2       |
| 18-44 | Male   | employed   | Yes   | Yes   | Yes   | No  | Yes | SPUTNIK V  | 1       | 2       |
| 18-44 | Female | unemployed | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 1       | 2       |
| 18-44 | Male   | student    | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 1       | 2       |
| 18-44 | Male   | student    | Yes   | Yes   | Yes   | Yes | Yes | COVISHIELD | 1       | 2       |
| 18-44 | Male   | employed   | Yes   | Yes   | Yes   | No  | Yes | COVISHIELD | 1       | 1       |
| 18-44 | Male   | unemployed | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 1,2,3,9 | 2,3,4   |
| 18-44 | Female | student    | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 1,6,7   | 1,2     |
| 18-44 | Female | student    | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 7       | 1,2,3,4 |
| 18-44 | Female | student    | Maybe | Maybe | Maybe | No  | Yes | COVAXIN    | 9       | 1,2     |
| 18-44 | Female | student    | Yes   | Yes   | Yes   | Yes |     | COVISHIELD | 1       | 1,3,4,2 |
| 18-44 | Male   | student    | Yes   | Maybe | Yes   | Yes |     | COVISHIELD | 1,2,9   | 1,2,3   |

|       |        |            |       |       |       |       |       |                         |           |         |
|-------|--------|------------|-------|-------|-------|-------|-------|-------------------------|-----------|---------|
| 18-44 | Female | employed   | Yes   | Yes   | Yes   | Yes   |       | COVISHIELD              | 1         | 3       |
| 18-44 | Male   | employed   | Maybe | Maybe | Maybe | Yes   |       | SPUTNIK V               | 1         | 3       |
| 18-44 | Female | employed   | Maybe | Maybe | Yes   | No    | Yes   | COVAXIN                 | 1         | 2       |
| 45-60 | Male   | employed   | Yes   | No    | Yes   | Yes   | No    | All type of vaccination | 2,4,5,6   | 2,4,1,3 |
| 45-60 | Female | unemployed | Yes   | Yes   | Maybe | Yes   | No    | All type of vaccination | 2,3,4,5,6 | 2,3,4,1 |
| 18-44 | Male   | unemployed | Yes   | Yes   | Maybe | Maybe | Maybe | COVAXIN                 | 6         | 2       |
| 60+   | Male   | retired    | Yes   | Yes   | Yes   | Yes   |       | COVISHIELD              | 1,7       | 3       |
| 45-60 | Female | unemployed | Yes   | Yes   | Yes   | Yes   |       | COVISHIELD              | 1,4,7     | 3,4     |
| 18-44 | Female | employed   | Yes   | Yes   | Yes   | Yes   |       | COVISHIELD              | 1,5,6     | 2,4     |
| 18-44 | Male   | unemployed | Yes   | Maybe | Yes   | Yes   |       | COVISHIELD              | 1,4,7     | 2,3     |
| 18-44 | Female | unemployed | Yes   | Yes   | Yes   | Yes   |       | COVAXIN                 | 1,2       | 2,3,4   |
| 45-60 | Female | unemployed | Yes   | Yes   | Yes   | Yes   |       | COVISHIELD              | 1         | 1,3,4   |
| 18-44 | Female | unemployed | Maybe | Maybe | Maybe | Yes   |       | SPUTNIK V               | 2         | 2,4     |
| 18-44 | Female | student    | Yes   | Yes   | Yes   | Yes   | Yes   | SPUTNIK V               | 1,2       | 1,2,3,4 |
| 18-44 | Female | unemployed | Yes   | Yes   | Maybe | Yes   |       | COVAXIN                 | 1         | 1,2     |
| 18-44 | Male   | student    | Yes   | Yes   | Yes   | No    | Yes   | COVAXIN                 | 9         | 1       |
| 18-44 | Female | student    | Yes   | Yes   | Yes   | No    | Yes   | COVISHIELD              | 9         | 4       |
| 18-44 | Male   | student    | Yes   | Yes   | No    | Yes   | Yes   | COVISHIELD              | 1,7,8,9   | 1,2,3,4 |
| 18-44 | Female | student    | Maybe | Maybe | Yes   | Yes   |       | COVISHIELD              | 1         | 3       |
| 60+   | Male   | retired    | Yes   | Yes   | Yes   | Yes   |       | COVISHIELD              | 1,7       | 1,3     |
| 60+   | Female | unemployed | Yes   | Yes   | Yes   | Yes   |       | COVAXIN                 | 1,4,7     | 2,3,4   |

|       |        |            |       |       |       |     |       |            |         |       |
|-------|--------|------------|-------|-------|-------|-----|-------|------------|---------|-------|
| 60+   | Male   | retired    | Yes   | Yes   | Yes   | Yes |       | COVAXIN    | 1,3,4,7 | 1,3   |
| 18-44 | Male   | employed   | Yes   | Yes   | Yes   | Yes |       | COVISHIELD | 1       | 2     |
| 18-44 | Female | student    | Yes   | Maybe | Yes   | Yes |       | COVISHIELD | 2       | 1,2,3 |
| 18-44 | Female | unemployed | Yes   | Yes   | Yes   | Yes | Yes   | COVISHIELD | 1       | 3     |
| 18-44 | Female | employed   | Yes   | Yes   | Yes   | Yes |       | SPUTNIK V  | 2       | 2,5   |
| 18-44 | Female | student    | Yes   | Yes   | Yes   | Yes |       | COVISHIELD | 1       | 1     |
| 18-44 | Male   | employed   | Yes   | Yes   | Yes   | Yes |       | COVISHIELD | 1       | 2,3   |
| 18-44 | Female | student    | Maybe | Maybe | Maybe | Yes |       | SPUTNIK V  | 1       | 1     |
| 45-60 | Female | employed   | No    | Yes   | No    | No  | No    | COVISHIELD | 1       | 2     |
| 45-60 | Female | unemployed | Maybe | Yes   | No    | No  | Yes   | COVISHIELD | 4       | 3     |
| 18-44 | Male   | retired    | Maybe | Maybe | Yes   | Yes | Maybe | SPUTNIK V  | 3       | 4     |
| 60+   | Male   | unemployed | Yes   | Yes   | No    | Yes | No    | COVISHIELD | 4       | 3     |
| 18-44 | Male   | unemployed | No    | No    | Yes   | Yes | Yes   | COVAXIN    | 7       | 2     |
| 18-44 | Male   | employed   | Yes   | Yes   | Yes   | Yes |       | COVISHIELD | 1       | 1,2,3 |
| 18-44 | Male   | employed   | Yes   | Yes   | Yes   | Yes |       | COVISHIELD | 1,2     | 1,2,3 |
| 60+   | Male   | retired    | Yes   | Yes   | Yes   | Yes |       | COVISHIELD | 2,3,4,1 | 1,3   |
| 45-60 | Male   | retired    | Yes   | Yes   | Yes   | Yes |       | COVAXIN    | 1,4     | 2,3   |
| 45-60 | Female | employed   | Yes   | Maybe | Yes   | Yes |       | COVAXIN    | 1       | 2,3   |
| 45-60 | Male   | employed   | Maybe | Maybe | Yes   | Yes |       | COVAXIN    | 1,4     | 1,2,3 |
| 45-60 | Male   | employed   | Yes   | Yes   | Yes   | Yes |       | COVISHIELD | 1,3,4   | 2,3,4 |
| 45-60 | Female | unemployed | Yes   | Maybe | Yes   | Yes |       | COVISHIELD | 1,7     | 1,2,3 |

|       |        |            |       |       |     |     |  |            |         |         |
|-------|--------|------------|-------|-------|-----|-----|--|------------|---------|---------|
| 60 +  | Male   | retired    | Yes   | Maybe | Yes | Yes |  | COVISHIELD | 1       | 1,3     |
| 60 +  | Female | retired    | Yes   | Maybe | Yes | Yes |  | COVISHIELD | 1,9     | 1,2,3   |
| 45-60 | Male   | employed   | Yes   | Yes   | Yes | Yes |  | COVAXIN    | 1       | 2,3     |
| 60 +  | Female | retired    | Yes   | Yes   | Yes | Yes |  | COVISHIELD | 1,4     | 2,3     |
| 45-60 | Male   | employed   | Yes   | Maybe | Yes | Yes |  | COVISHIELD | 1,4,7   | 1,2,3   |
| 45-60 | Female | unemployed | Maybe | Maybe | Yes | Yes |  | COVAXIN    | 1,4     | 1,2,3   |
| 45-60 | Male   | retired    | Yes   | Maybe | Yes | Yes |  | COVISHIELD | 1,3,4   | 1,3     |
| 45-60 | Female | unemployed | Yes   | Maybe | Yes | Yes |  | COVAXIN    | 1,2,4   |         |
| 60 +  | Male   | retired    | Yes   | Yes   | Yes | Yes |  | COVISHIELD | 1,2,4   | 4,3     |
| 45-60 | Male   | employed   | Yes   | Yes   | Yes | Yes |  | COVISHIELD | 1,4     | 1,2,3   |
| 18-44 | Male   | student    | Yes   | Maybe | Yes | Yes |  | COVAXIN    | 1,2,4   | 2,3,4   |
| 18-44 | Female | employed   | Yes   | Maybe | Yes | Yes |  | COVAXIN    | 1,4     | 1,2,3,4 |
| 18-44 | Female | student    | Maybe | Maybe | Yes | Yes |  | COVAXIN    | 1,4     | 1,2,4   |
| 45-60 | Male   | employed   | Yes   | Yes   | Yes | Yes |  | SPUTNIK V  | 1,2     | 1,2,3   |
| 18-44 | Female | student    | Maybe | Maybe | Yes | Yes |  | SPUTNIK V  | 1,2,4,7 | 2,3,4   |
| 60 +  | Male   | retired    | Yes   | Maybe | Yes | Yes |  | COVISHIELD | 1,4     | 1,3     |
| 18-44 | Female | student    | Yes   | Yes   | Yes | Yes |  | COVAXIN    | 1,4,5   | 2,3,4   |
| 60 +  | Male   | retired    | Maybe | Maybe | Yes | Yes |  | COVISHIELD | 1       | 1,3     |
| 18-44 | Female | student    | Yes   | Yes   | Yes | Yes |  | COVAXIN    | 1,2,4   | 1,2,3   |
| 18-44 | Male   | student    | Yes   | Yes   | Yes | Yes |  | COVISHIELD | 1,4     | 2,3,4   |

### Barriers that may prevent from taking vaccination.

|                                                                |   |
|----------------------------------------------------------------|---|
| being worried about the aftereffects of the vaccine            | 1 |
| Not a believer of vaccine will stop the infection              | 2 |
| Covid 19 vaccine is a conspiracy                               | 3 |
| As I follow preventive measures seriously                      | 4 |
| As I am young, healthy, and immune                             | 5 |
| I am afraid of needles and injections.                         | 6 |
| I believe in ayurvedic treatment                               | 7 |
| Vaccination is costly.                                         | 8 |
| Already got infected by the virus so I am immune to the virus. | 9 |

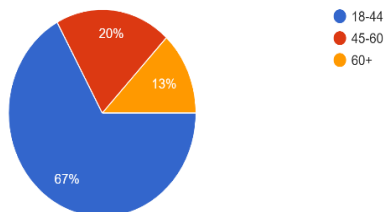
### Preferred source to get all the updates and information:

Newspaper = 1, Social media platforms = 2, Television = 3, WhatsApp = 4, Others = 5

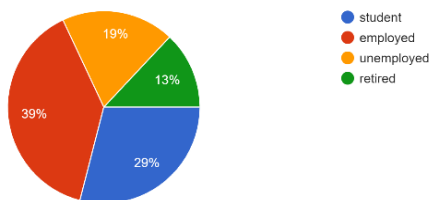
### Survey Analysis and Inference:

#### 2.6.1) Socio demographic factors.

1) Age  
100 responses



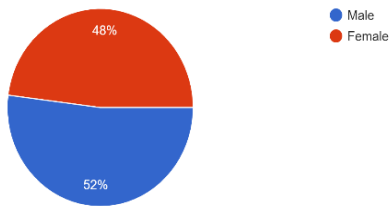
Occupation  
100 responses



*Inference:* Out of 100 individuals responded to the electronic questionnaire, more than half of the participants (67%) were between the ages of 18-44, while people 45-60 years of age made up only 20%, and only 13% of people meet the age group's age 60 and older. Both males and females have participated but the percentage of male participants were slightly higher that is, 52%. Among the study population, 29% were



Gender  
100 responses

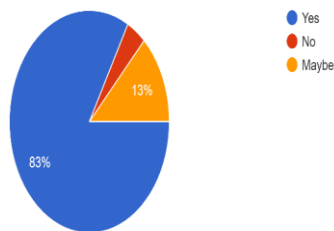


students and 39% employed, 19% were unemployed, while the other participants that is 13% were retired from their respective jobs.

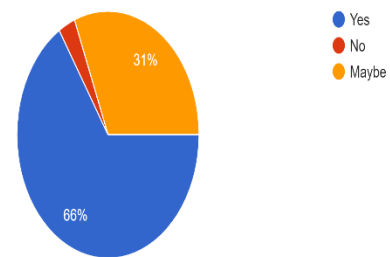
Fig. 2.6.1. shows pie chart diagram for socio demographic characteristics.

## 2.6.2) Beliefs regarding COVID 19 vaccine.

6) Do you think that the best way to avoid the complication of COVID 19 is being vaccinated?  
100 responses



5) Do you think COVID 19 vaccination would be effective?  
100 responses



4) Do you think that COVID 19 vaccine is safe?  
100 responses

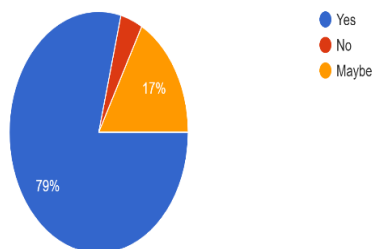


Fig. 2.6.2. shows pie chart diagram for the people's belief towards COVID 19 Vaccine.

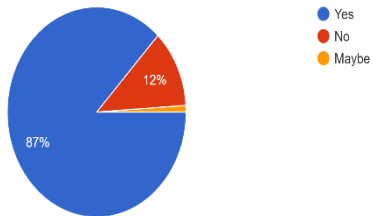
*Inference:* Among the people surveyed, 79% believe that the COVID-19 vaccine will be safe and 66% of people believe it will work. In addition, uncertainty was noticed among the responders which was about efficacy (31%) and safety (17%) of the vaccine. The vast majority of 83% of people in that study agreed that vaccination was the best way to prevent

COVID-19 complications. In summary, more than half of participants expressed positive beliefs (safety and efficacy) in dealing with COVID-19 vaccination.

### 2.6.3) Acceptance of the Corona vaccine

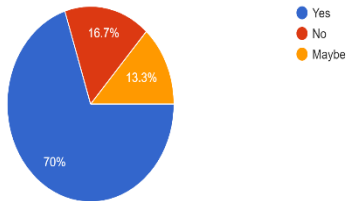
7) Have you get vaccinated for COVID 19?

100 responses



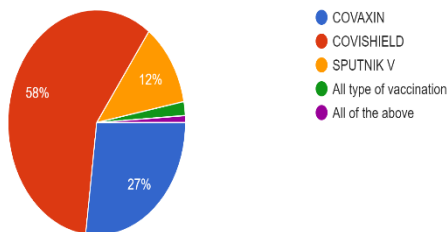
8) If no, then are you planning to get vaccinated for COVID 19?

30 responses



9) Which type of COVID 19 vaccine do you prefer and think is both safe and effective ?

100 responses



*Inference:* In the study sample consisting 100 individuals, 87% of the individuals got vaccinated. Including biasness approximately 12 % of the people are still planning to get vaccinated. COVISHIELD and COVAXIN were found to be most common among the response of the individual for the safe and effective COVID 19 vaccine, which is followed by Sputnik V. We can say that more than half of the population has accepted the COVID 19 vaccine and got themselves vaccinated.

Fig.2.6.3 shows pie chart diagram for the acceptance of COVID 19

#### 2.6.4) Potential barriers may prevent vaccination.

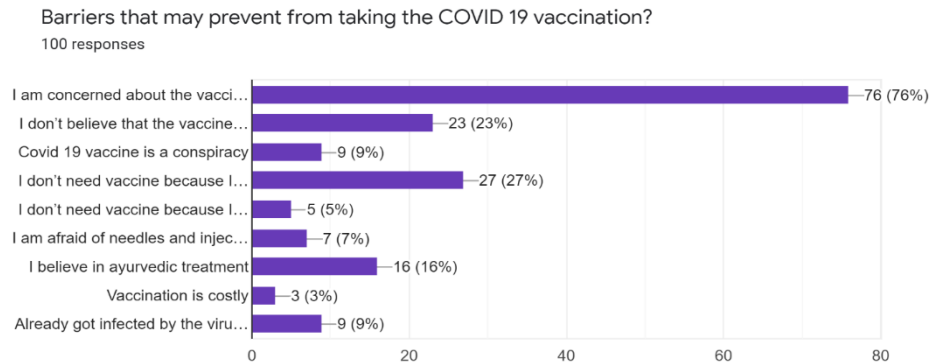


Fig.2.6.4. showing potential barriers preventing vaccination

*Inference:* The reluctance among the people for vaccine was studied under a single multiple-choice questionnaire. Among study subjects, the majority (76%) were worried about the negative aftereffects of the vaccine. For below graph mention it is a multiple response question percent may add up more than 100%.

However, most of the people about 23% were not found to be sure about the efficacy of the vaccine whereas, 9% of people reacted positively towards the COVID-19 vaccine, whereas 27% people have assumed that they do not need vaccination as they follow all the preventive measures seriously, and 16% of the individuals believed in ayurvedic treatment and hence did not want to get vaccinated and face the underlined complications.

#### 2.6.5) Awareness and sources of vaccine information among people.

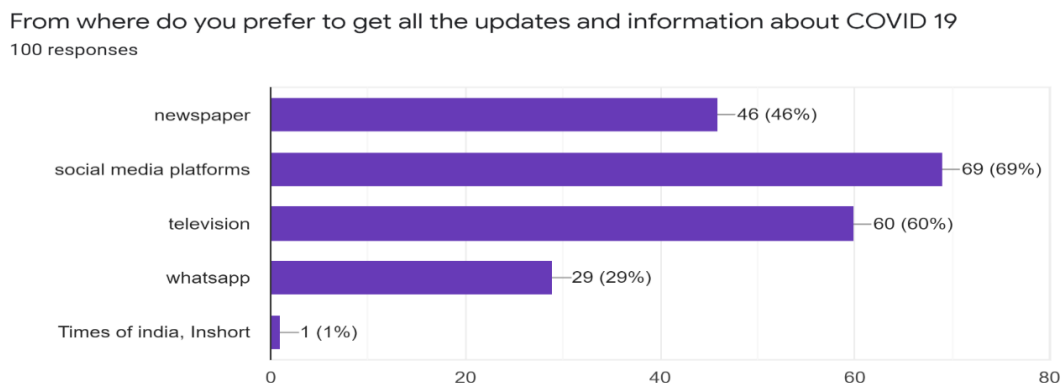


Fig.2.5.5. showing the sources from where people prefer to get update and information about COVID

*Inference:* The awareness and sources of the COVID 19 vaccine among people was studied using a single multiple-choice questionnaire. Among the study subjects most of the population (69%) get all the updates and information about Covid 19 vaccine/vaccination through social media platforms. About 60% of the people prefer television and 46% of the study population prefer newspaper for getting daily updates on Covid 19 vaccine/vaccination.

#### 2.6.6) Effectiveness & safety of different vaccines for corona virus available.

The most important last resort is the ability of antiretroviral therapy to prevent serious illness and death, as the greatest burden can be on health care systems with a high number of hospitals and hospital admissions. According to the WHO 50% effectiveness is enough for a vaccine and < 60% effectiveness may not be able to protect. To halt the pandemic, the efficacy rate of the vaccine should be at least 70% with the coverage of at least 80% along with using mask and social distancing.

Table 2.6.6. showing the manufacturer, efficacy rate and aftereffects of COVID 19 vaccine.

| Name of the vaccine | Manufacturer                                      | Efficacy rate | Aftereffects                                                                                                                     |
|---------------------|---------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------|
| COVAXIN             | Bharat Biotech in collaboration with ICMR         | 78%- 100%     | Pain, swelling, redness at injection site, dizziness, weakness, headache, malaise, pain in arm, nausea, fever, allergic reaction |
| COVISHIELD          | oxford AstraZeneca, the Serum Institute of India, | 70% - 90%     | Pain at injection site, weakness, malaise, feverish, pain in arm, dizziness.                                                     |

|           |                                                                                                           |          |                                                                              |
|-----------|-----------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Sputnik V | Gamaleya Research Institute of Epidemiology & microbiology , in collaboration with Dr. Reddy laboratories | Over 91% | Fatigue, joint pain, chills, fever, muscle ache, body ache, nausea, vomiting |
|-----------|-----------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|

## 2.7) **Conclusion:**

People's belief that the Covid 19 vaccine will reduce the risk of infection with this deadly virus. After being vaccinated and even a person infected with the corona is less likely to be hospitalized with more serious words than non-vaccinated people. Among the people surveyed, 79% believe that the COVID-19 vaccine will be safe and 66% of people believe it will work.

People who are unwilling to take Covid vaccine for fear of getting serious side effects without knowing all the benefits of the vaccine their concern, fear, doubt remains the same. Therefore, risk perception plays an important role in human immunization efforts. According to our study, uncertainty as found about 31% for efficacy & for safety 17%.

The external environment tends to influence the attitude, behavior of the people. During pandemic, the social media networking sites played an important role in spreading awareness, volunteering, and guiding people throughout their tough time and hence played an important role in influencing public behavior about getting vaccinated. Among the study subjects of our study most of the population (69%) get all the updates and information about Covid 19 vaccine/vaccination through social media platforms.

Having faith in the government agencies, pharmaceutical companies manufacturing and distributing covid 19 vaccine is very important. However, our study reveals that 83% of people in the study population agreed that vaccination was the best way to prevent COVID-19 complications.

Understanding people's perceptions about the vaccine for the success of the vaccine program is very much necessary and for the preparation of public health message as usual, social conditions regarding drug safety and efficacy are often associated with adherence.

## 2.8) Reference:

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## **ANNEXURE**

### *Questionnaire:*

1) Age

- 18-44
- 45-60
- 60+

2) Sex

- Male
- Female
- Other

3) Occupation

- Student
- Employed
- Unemployed
- Retired

4) Do you think that Covid 19 vaccine is safe

- Yes
- No
- Maybe

5) Do you think Covid 19 vaccination would be effective

- Yes
- No
- Maybe

- 6) Do you think that the complication of corona disease can be avoided by being vaccinated
- Yes
  - No
  - Maybe
- 7) Have you get vaccinated
- Yes
  - No
- 8) If no then are you planning to get vaccinated
- Yes
  - No
  - Maybe
- 9) What type of covid 19 vaccine do you prefer and think is both safe and effective
- COVAXIN
  - COVISHIELD
  - SPUTNIK V
  - OTHER
- 10) Barriers affecting you from taking covid 19 vaccination:
- Being worried about the aftereffects of the vaccine.
  - Not a believer of vaccine will stop the infection.
  - Covid 19 vaccine is a conspiracy
  - as I follow preventive measures seriously
  - as I am young , healthy and immune
  - I am afraid of needles and injections.
  - I believe in ayurvedic treatment
  - Vaccination is costly

- Already got infected by the virus so I am immune to the virus.

11) From where you get all the updates and information about COVID 19

- Newspaper
- Social media platforms
- Television
- WhatsApp
- others