

## POST COVID 19 VACCINE SYMPTOMS SURVEY

Dr. Sachin Annasaheb Nitave\*, Vishin A. Patil, Manali M. Bhide and  
Manisha Y. Sonalkar

Dr. J. J. Magdum Trust's Anil Alias Pintu Magdum Memorial Pharmacy College,  
Dharangutti, Kolhapur, Maharashtra.

Article Received on  
01 Aug. 2021,

Revised on 21 Aug. 2021,  
Accepted on 10 Sept. 2021

DOI: 10.20959/wjpr202112-21700

### \*Corresponding Author

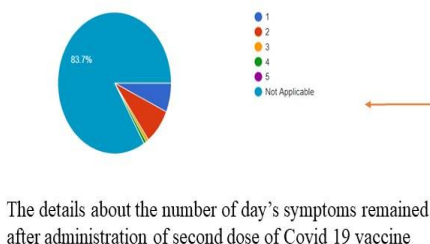
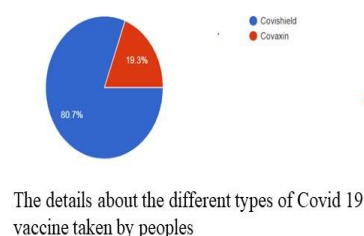
Dr. Sachin Annasaheb  
Nitave

Dr. J. J. Magdum Trust's  
Anil Alias Pintu Magdum  
Memorial Pharmacy  
College, Dharangutti,  
Kolhapur, Maharashtra.

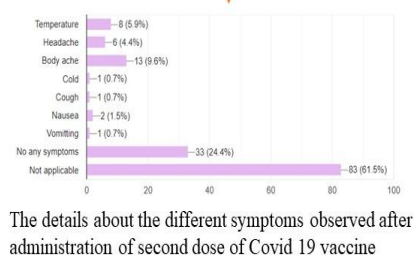
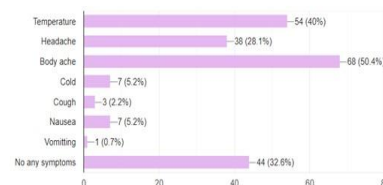
### ABSTRACT

**Aim:** The aim of this survey is to reduce stress and anxiety about Covid 19 vaccination and encourage the people to take Covid 19 vaccine. **Materials and Methods:** The survey is carried out about post Covid 19 vaccine symptoms by using google form. **Results:** Results indicate that mild symptoms like headache, fever, body ache are observed in people after Covid 19 vaccination for one to two days. **Conclusion:** The summery and outcome of this survey reduce the fear about Covid 19 vaccination and it will encourage people to take covid vaccine.

**KEYWORDS:** Coronavirus, COVID-19, Vaccine, Symptoms, Survey.



### Pictorial Abstract



## INTRODUCTION

Coronavirus belongs to the Coronaviridae family, Nidovirales order. The name of the genus “Corona” means crown, as the virus appears with crown-like projections on its surface.<sup>[1]</sup> The process of naming the novel coronavirus (2019-nCoV) which emerged in Wuhan, China, in December 2019, has created some controversies. In this review, the World Health Organization convention of referring to the disease condition as novel coronavirus disease (COVID-19) has been followed. The virus will be referred to as SARS-related CoV-2, or SARS-CoV-2. COVID-19 has been labelled as a public health emergency of international concern.<sup>[2]</sup> COVID-19 is a serious infectious disease caused by the novel corona virus, SARS-CoV2, threatening the public health with high transmission rate of infection causing more deaths across the globe in elderly population, immunocompromised individuals and in patients with comorbid conditions. Very few literature are becoming available in detailing the different perspectives of the disease.<sup>[3]</sup> The coronavirus disease 2019 (COVID-19) outbreak, which has caused 165,158,285 confirmed cases of COVID-19, including 342,501 coronavirus related deaths, is one of the most devastating worldwide crises.<sup>[4]</sup> Infection with COVID-19 results in a fever, dry cough, general fatigue, respiratory symptoms, diarrhoea and a sore throat, similar to those of acute respiratory distress syndrome. The causative agent of COVID-19, SARS-CoV-2, is a novel coronavirus strain.<sup>[5]</sup>

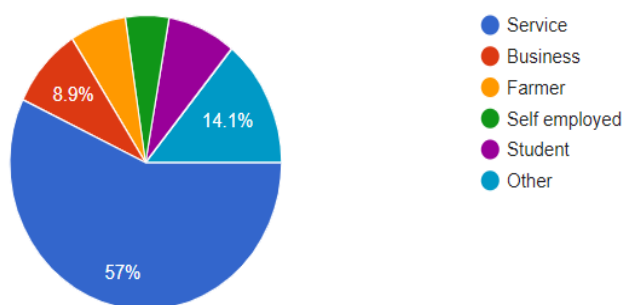
## MATERIALS AND METHODS

To collect survey about post Covid 19 vaccine symptoms google form was created. The link for google form is as bellow-

<https://forms.gle/BqprWRrUwKnBjnv6>

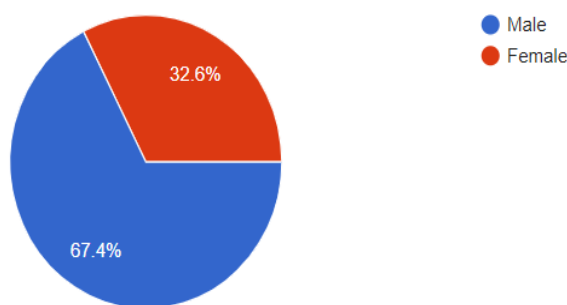
## RESULTS

The details about the occupation of persons who had taken Covid 19 vaccine is shown in Figure 1.



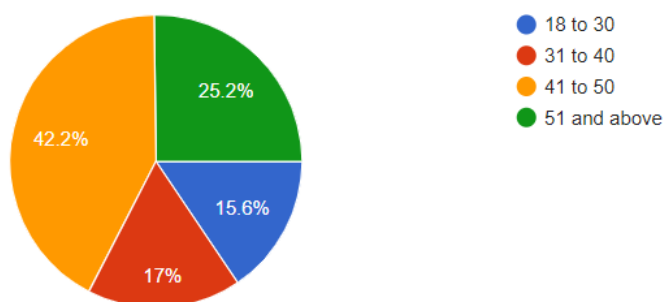
**Figure 1: The details about the occupation of persons who had taken Covid 19 vaccine.**

The details about the gender of peoples who had taken Covid 19 vaccine is shown in Figure2.



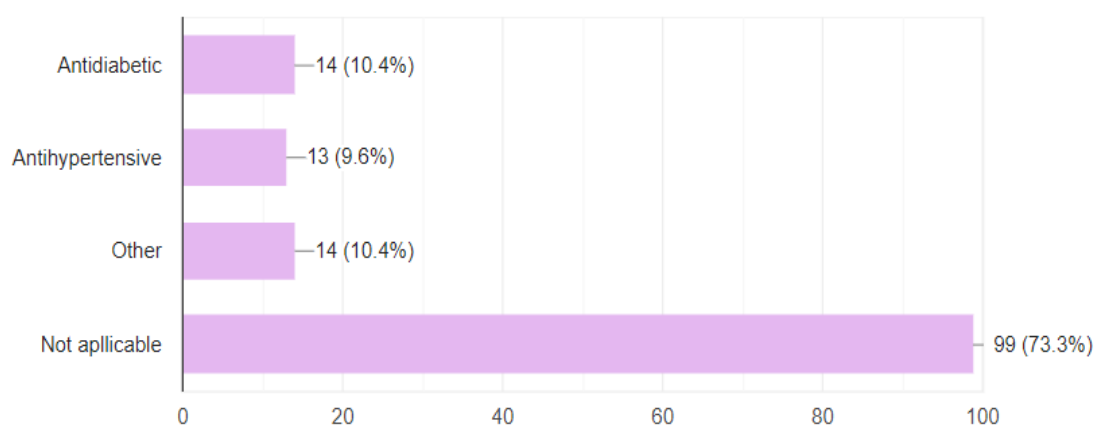
**Figure 2: The details about the gender of peoples who had taken Covid 19 vaccine.**

The details about the age category of peoples who had taken Covid 19 vaccine is shown in Figure:3.



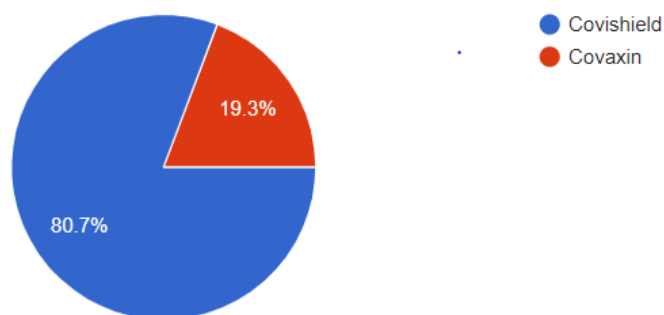
**Figure 3: The details about the age category of peoples who had taken Covid 19 vaccine.**

The details about the different type of medications taken by people who had taken Covid 19 vaccine is shown in Figure4.



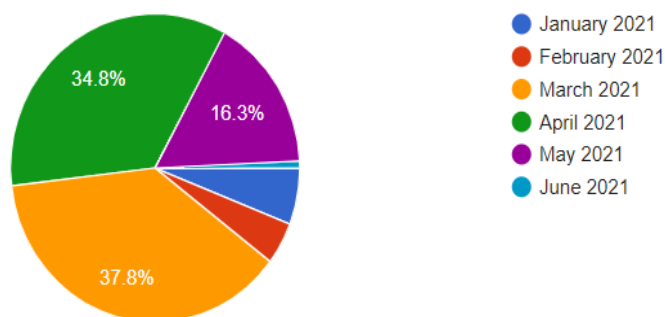
**Figure 4: The details about the different type of medications taken by people who had taken Covid 19 vaccine.**

The details about the different types of Covid 19 vaccine taken by peoples is shown in Figure 5.



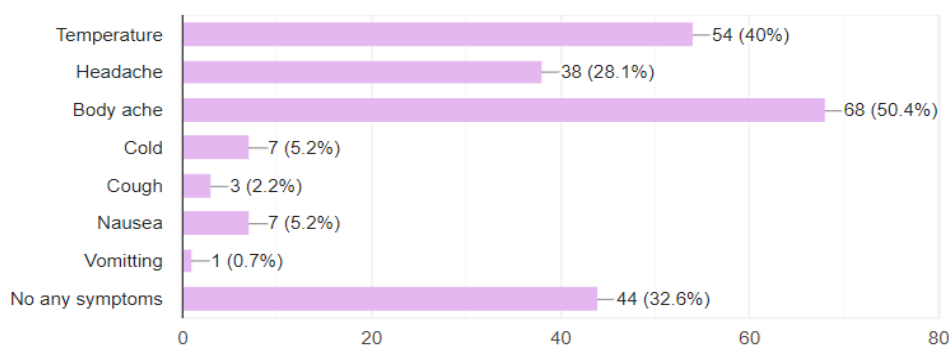
**Figure 5: The details about the different types of Covid 19 vaccine taken by peoples.**

The details about the months in which first dose of Covid 19 vaccine taken by peoples is shown in Figure6.



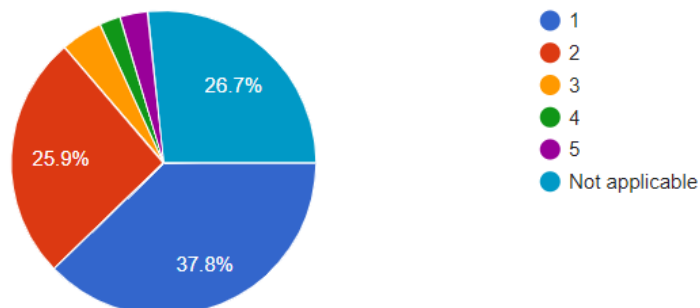
**Figure 6: The details about the months in which first dose of Covid 19 vaccine taken by peoples.**

The details about the different symptoms observed after taking of first dose of Covid 19 vaccine is shown in Figure7.



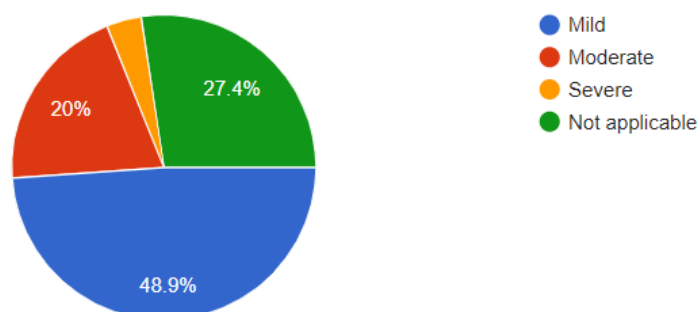
**Figure 7: The details about the different symptoms observed after taking of first dose of Covid 19 vaccine.**

The details about the number of day's symptoms remained after administration of first dose of Covid 19 vaccine is shown in Figure8.



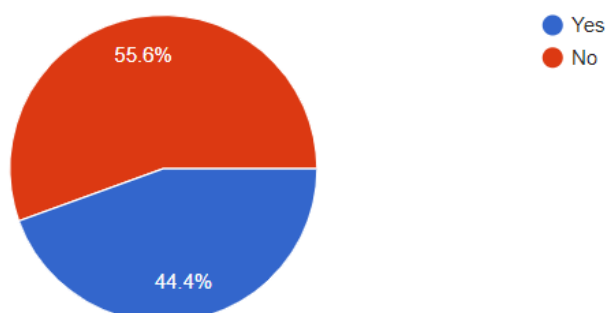
**Figure 8:** The details about the number of day's symptoms remained after administration of first dose of Covid 19 vaccine.

The details about the severity of symptoms observed after administration of first dose of Covid 19 vaccine is shown in Figure9.



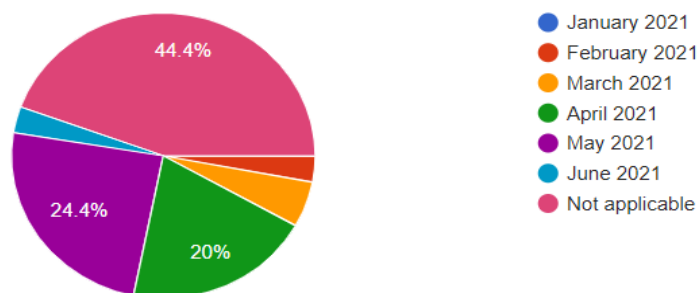
**Figure 9:** The details about the severity of symptoms observed after administration of first dose of Covid 19 vaccine.

The details about the percentage of peoples taken second dose of Covid 19 vaccine is shown in Figure10.



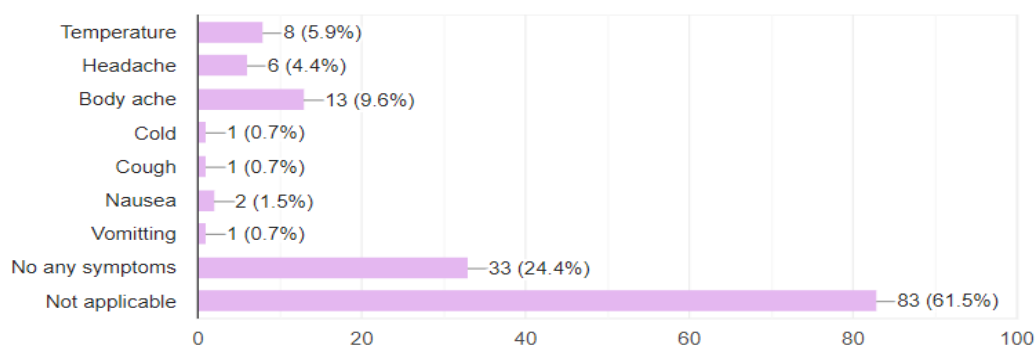
**Figure 10:** The details about the percentage of peoples taken second dose of Covid 19 vaccine.

The details about the months in which second dose of Covid 19 vaccine taken by peoples is shown in Figure11.



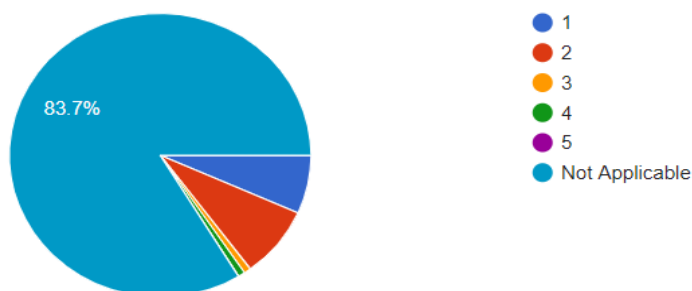
**Figure 11:** The details about the months in which second dose of Covid 19 vaccine taken by peoples.

The details about the different symptoms observed after administration of second dose of Covid 19 vaccine is shown in Figure12.



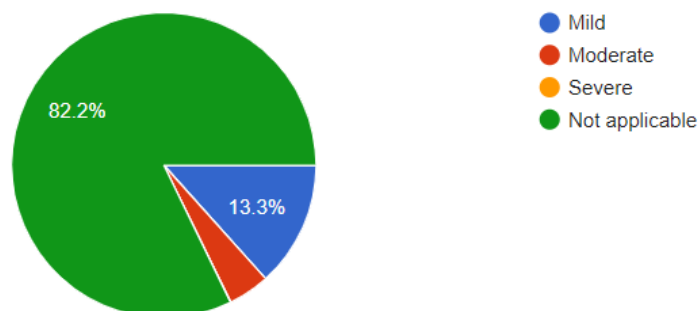
**Figure 12:** The details about the different symptoms observed after administration of second dose of Covid 19 vaccine.

The details about the number of day's symptoms remained after administration of second dose of Covid 19 vaccine is shown in Figure13.



**Figure 13:** The details about the number of day's symptoms remained after administration of second dose of Covid 19 vaccine.

The details about the severity of symptoms observed after administration of second dose of Covid 19 vaccine is shown in Figure14.



**Figure 14:** The details about the severity of symptoms observed after administration of second dose of Covid 19 vaccine.

## DISCUSSION

Out of the total individual taken vaccine 57% are in service, 8.9% are in business, 6.7% are farmer, 5.2% are self-employed and 8.1% are students while 14.1 % peoples are in other occupation. It is shown in Figure1. Out of total vaccinated individuals 67.4% are male and 32.6% are female. It is shown in Figure2. As per the age category 42.2% peoples of the age group 41 to 50 years, 25.2% peoples of the age group above 51 years, 17% peoples of the age group 31 to 40 years while 15.6% peoples of the age group 18 to 30 years are vaccinated. Shown in Figure3.

During vaccination 73.3% peoples are not taking any type of medication, 10.4% are taking antidiabetic drugs, 9.6% are on antihypertensive drugs while 10.4% individuals are taking other medicines. Shown in Figure4. In this survey 80.7% peoples are taken Covishield vaccine while 19.3% individuals are taken Covaxin vaccine. Shown in Figure5. In the month of March 2021 37.8%, April 2021 34.8%, May 2021 16.3%, January 2021 5.9%, February 2021 4.4% while in June 2021 0.7% peoples are vaccinated by first dose. Shown in Figure6. After first dose of vaccine 40% peoples are suffered from fever, 28.1% are suffered from headache, 50.4% are suffered from body ache, 5.2% are suffered from cold, 2.2% are suffered from cough, and 5.2% are suffered from nausea while 0.7% are suffered from vomiting. Most important thing is that 32.6% individuals are not suffered from any adverse effects after receiving the first dose of vaccine. Shown in Figure7. In 37.8% individuals symptoms after injection of first dose of vaccine is remained for one day. While in 25.9% it is for two days, in 4.4% it is for three days, in 2.2% it is for four days and in 3% symptoms are

remained for five days. Important point is that in 26.7% individuals the symptoms are remained for less than one day that is for very short period of time. Shown in Figure 8. After first dose of vaccine symptoms in 3.7% individuals are severe, in 20% it is moderate, in 48.9% it is mild while in 27.4% individuals symptoms are not observed. Shown in Figure9.

The second dose of vaccine is taken by 44.4% of individuals while 55.6% peoples are still not vaccinated by second dose. Shown in Figure10. In the month of March 2021 5.2%, April 2021 20%, May 2021 24.4%, February 2021 3% while in June 2021 3% peoples are vaccinated by second dose while 44.4% are not vaccinated by second dose of vaccine. Shown in Figure11. Out of total second dose of Covid 19 vaccinated individuals 12.5% peoples are suffered from fever, 9.37% are suffered from headache, 20.31% are suffered from body ache, 1.56% are suffered from cold, 1.56% are suffered from cough, 3.12% are suffered from nausea while 1.56% are suffered from vomiting. Most important thing is that 51.56% individuals are not suffered from any symptoms after receiving the second dose of vaccine. Shown in Figure12. Out of total second dose of Covid 19 vaccinated individuals, 15% of individual's symptoms are remained for one day. While in 18.33% it is for two days, in 1.66% it is for three days and in 1.66% symptoms are remained four days. Important point is that in 63.33% individuals the symptoms are not seen. Shown in Figure 13. Out of total second dose of Covid 19 vaccinated individuals, symptoms in 30% peoples is mild, in 10% it is moderate while in 60% individuals symptoms are not observed. There are no any severe symptoms are found after second dose of Covid 19 vaccine. Shown in Figure14.

Following are some suggestions found during survey.

Sr. No.	Suggestions	Sr. No.	Suggestions
01	Planning of giving vaccine dose not good.	02	Please take vaccine don't listen to rumors, it's really safe.
03	Symptoms varies from person to person.	04	Good initiative.
05	Vaccination for bed ridden and elderly at home.	06	Struggling for 2nd dose due to non-availability of vaccine, should be made available by Govt.
07	This is good practice sir!!	08	Vaccine is safe.
09	Please make available second dose.	10	Nice form keep it up.
11	Take 2 <sup>nd</sup> dose after 6 week of 1 <sup>st</sup> don't afraid get vaccinated, necessary for you, your family, your nation thank you.	12	Everyone should be educated and compelled to take vaccine.
13	Nice survey.	14	Vaccination is essential.
15	Vaccine is very safe...no critical symptoms after vaccination.	16	People must take both the doses without any fear, thus helping India to eradicate Covid19 totally.



17	Everyone have to take this vaccination without any fear in mind and follow all the rules and regulations laid down by Government..... With this We'll fight against this pandemic and definitely we win.....Stay Safe ....Stay Healthy	18	Upcoming Vaccine system must be faster than yet situation.
19	Evaluation of Comparative data will be helpful. Good work.	20	The dose is effective so every person should be taken.

## CONCLUSION

From above survey we conclude that both vaccine against Covid 19 that is Covishield and Covaxin are safe. After first dose of vaccine common symptoms like fever, body ache and headache are observed in average 35% of individuals which are in mild and moderate form. These symptoms are remained for one to two day. About 32.6% individuals are not suffer from any adverse effects after first dose of vaccine. After second dose of Covid 19 vaccine common symptoms like fever, body ache and headache are observed in average 14% of individuals which are in mild form only. These symptoms are remained for one to two day. About 60% individuals are not suffer from any adverse effects after second dose of vaccine. All this data and study may help to community to reduce stress and anxiety about Covid 19 vaccination. The summery and outcome of this survey will reduce the fear about vaccination and it will encourage people to take covid vaccine.

## ACKNOWLEDGEMENT

I am thankful to all stakeholders for filling the survey form.

## CONFLICT OF INTEREST

The authors declare that they have no conflict of interest.

## ABBREVIATIONS

Nil.

## SUMMARY

The summery and outcome of this survey reduce the fear about Covid 19 vaccination and it will encourage people to take covid vaccine as it is very safe.

**REFERENCES**

1. Vidya M. Mahalmani, Dhruv Mahendru, Ankita Semwal, Sukhmeet Kaur, Harpinder Kaur, Phulen Sarma *et al.* COVID-19 pandemic: A review based on current evidence, Indian Journal Of Pharmacology, March-April 2020; 52(2): 117-129.
2. Pranab Chatterjee, Nazia Nagi, Anup Agarwa, Bhabatosh Das, Sayantan Banerjee, Swarup Sarkar *et al.* The 2019 novel coronavirus disease (COVID-19) pandemic: A review of the current evidence, Indian Journal of Medical Research, February and March 2020; 151: 147-159.
3. Hyma Sara Varghese, Current review on COVID-19 pandemic: a global perspective, International Journal of Basic and Clinical Pharmacology, 2020 Jul; 9(7): 1159-1166.
4. <https://covid19.who.int/>
5. Shih-Chang Tsai, Chi-Cheng Lu, Da-Tian Bau, Yu-Jen Chiu, Yu-Ting Yen, Yuan-Man Hsu *et al.* Approaches towards fighting the COVID-19 pandemic (Review), International Journal of Molecular Medicine, 2021; 47: 3-22.