



## A PROSPECTIVE OBSERVATIONAL STUDY ON PERCEPTION ABOUT COVID-19 IMMUNIZATION

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### ABSTRACT

Vaccination is a process of immunization and an foremost form of primary prevention which protect people from getting sick. It has pulled the stings of the diseases that has intimidated human existence. The immune system is comprised of several types of cells, which recognise and defends against the invaders. Vaccination instruct the body to identify new diseases and stimulates the body to make antibodies against antigens of pathogens. It also paramount immune cells to remember the types of antigens that cause infection and allows for a quicker response to the disease in future. When the body responds to the vaccine, it mould an adaptive immune response which provide the body to fight off an actual infection. Vaccines are generally given as injection. The bulk of research and corroboration proves that vaccines are safe and side effects are rare. They are attentively tested and passed through many rounds of study, examination, and research before they reaches the general public. Side effects that do occur are typically mild. As a matter of fact, the greatest risk is not to get a vaccine and potentially get sick and could even be deadly. Covid 19 respiratory infectious deadly disease caused by novel corona virus which have taken many lives. The aim of this prospective observational study was to ascertain the myth and fact about Covid 19 vaccination among 140 common people.

**KEYWORDS:** Immunization, COVID vaccination, Myth and facts.

### INTRODUCTION

Immunization is consolidating individuals immune system against an infectious disease, mainly by vaccination. Vaccines lessens the risks of getting a disease by working with body's natural defences to build protection and while taking vaccine. Vaccines prevent more than 20 life-threatening diseases, helping people of all ages to live longer, healthier lives and currently prevents 2-3 million deaths every year from diseases like diphtheria, tetanus, pertussis, influenza, measles and also now from Covid 19. In Global vaccination coverage the proportion of the world's children who have received recommended vaccines also reminisce the same in recent years.

Vaccines hold microorganism or virus in live or killed state, or proteins or toxins from the organism, which help to prevent sickness from an infectious disease. COVID 19 is a respiratory infectious disease caused by coronavirus 2(SARS-CoV-2). Preventive measures included, vaccination, staying home and avoiding crowd, wearing mask in public, possess social distance, using sanitizer and handwash frequently. Public stucked to the preventive measures but was pathetic towards the process of vaccination and it is being fuelled by some myths, which is a folk tale that sis widely held.

Vaccines are feasibly the best hope for ending the COVID-19 pandemic. Woefully, there are some erroneous information related to vaccines and their development which steer to temporize the public.

In this prospective observational inquiry we ascertain the awareness about COVID-19 vaccination among common people.

### METHODOLOGY

Initial phase of the study was to determine the scope and to carry out literature survey. Based on the inclusion and exclusion criteria, Common people were enrolled in the study after obtaining the informed constant. All relevant data required for the study was obtained and mentioned in a suitably designed data collection form. The result was analyzed using suitable statistical method.

### STUDY SITE AND DESIGN

This is a prospective observational study carried out at among common people for the period of two days.

### STUDY CRITERIA

#### Inclusion criteria

Common people in the age group of 18 to 50 was included in the study.

**Exclusion criteria**

Common people in the age group below 18 and in the age group above 50 was excluded in the study.

**DATA COLLECTION PROCEDURE**

Based on inclusion and exclusion criteria subjects were enrolled in the study after obtaining the inform consent. Conducted online survey with the respondents. Gaining information from respondents via online surveys, and provided honest and clear feedback about the subject.

Data collection form and questionnaire designed and pilot for this study was used.

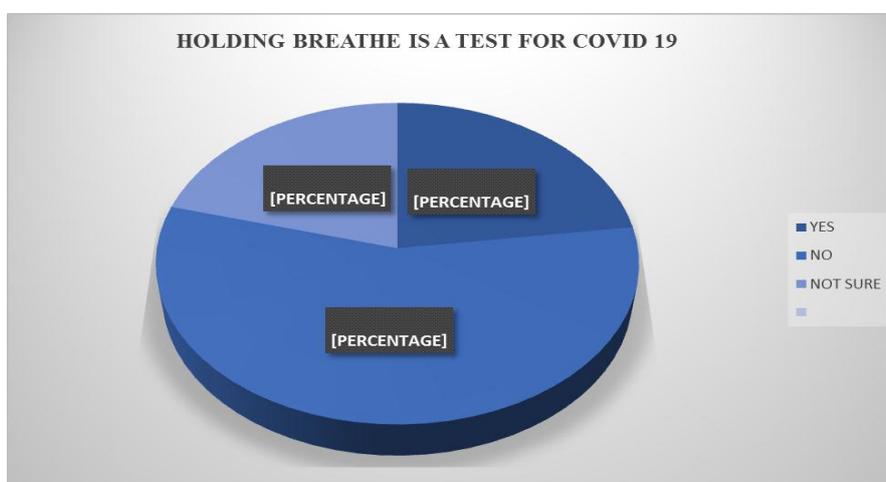
**RESULTS**

**HOLDING BREATHE IS A TEST FOR COVID 19**

Out of 140 responses 32(23%) people respondent yes, 79(56%) no and 29(21%) was not sure about whether holding breathe is at test for COVID-19 as shown in table 1.

**Table 1: Holding Breathe Is A Test For Covid 19.**

Holding Breathe Is A Test For Covid 19	No Of Responses	Percentage
YES	32	23%
NO	79	56%
NOT SURE	29	21%



**Fig 1: Holding Breathe Is A Test For Covid 19.**

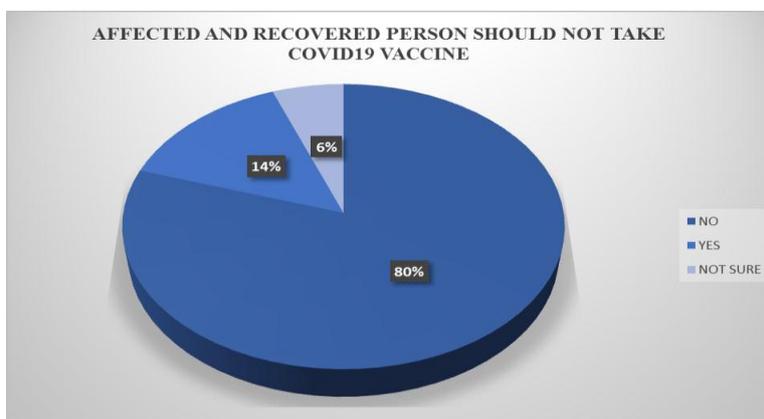
**AFFECTED AND RECOVERED PERSON SHOULD NOT TAKE COVID19 VACCINE**

Among 140 respondents 2(14%) believed, 112(80%) did not believe and 8(6%) was not sure whether affected and

recovered person should not take COVID-19 vaccine as shown in table 2.

**Table 2: Affected And Recovered Person Should Not Take Covid19 Vaccine.**

Affected And Recovered Person Should Not Take Covid19 Vaccine.	No Of Responses	Percentage
YES	20	14%
NO	112	80%
NOT SURE	8	6%



**Fig 2: Affected And Recovered Person Should Not Take Covid19 Vaccine.**

**AFTER VACCINATION NO NEED OF WEARING MASK**

About 92% was aware about of wearing mask after vaccination but 8% was not aware as shown in the table 3.

**Table 3: After Vaccination No Need Of Wearing Mask**

After Vaccination No Need Of Wearing Mask	No Of Responses	Percentage
YES	8	2%
NO	129	92%
NOT SURE	3	6%



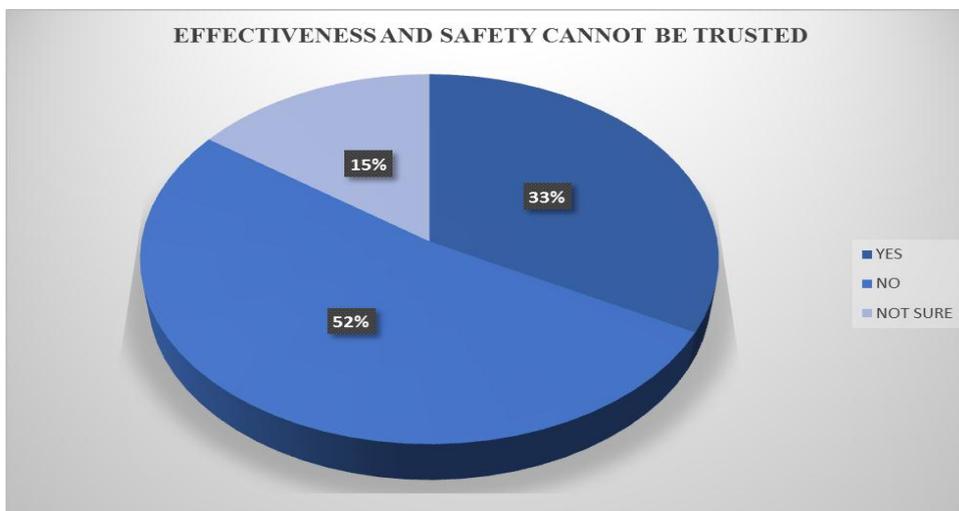
**Fig 3: After Vaccination No Need Of Wearing Mask.**

**EFFECTIVENESS AND SAFETY CANNOT BE TRUSTED**

About 46(33%) responded yes, 73(52%) no and 21(15%) was not sure about whether the effectiveness and safety cannot be trusted as shown in table 4.

**Table 4: EFFECTIVENESS AND SAFETY CANNOT BE TRUSTED**

Effectiveness And Safety Cannot Be Trusted	No Of Responses	Percentage
YES	46	33%
NO	73	52%
NOT SURE	21	15%



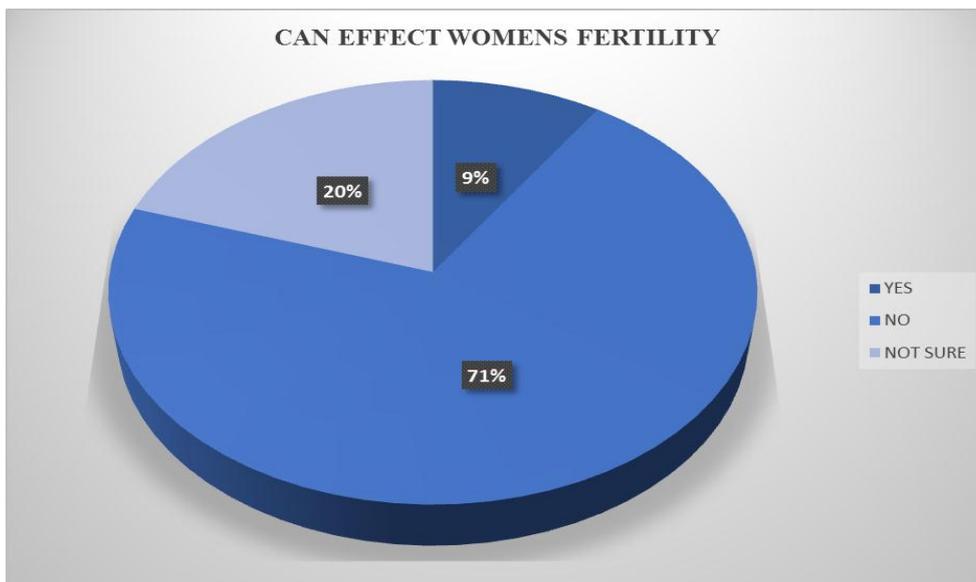
**Fig 4: Effectiveness And Safety Cannot Be Trusted.**

**CAN EFFECT WOMENS FERTILITY**

Among 140 respondent 13(9%) believed that vaccine effect women’s fertility but 99(71%) believed it does not effect and 28(20%) was not sure as shown in table 5.

**Table 5: Can Effect Womens Fertility.**

Can Effect Womens Fertility	No Of Responses	Percentage
YES	13	9%
NO	99	71%
NOT SURE	28	20%



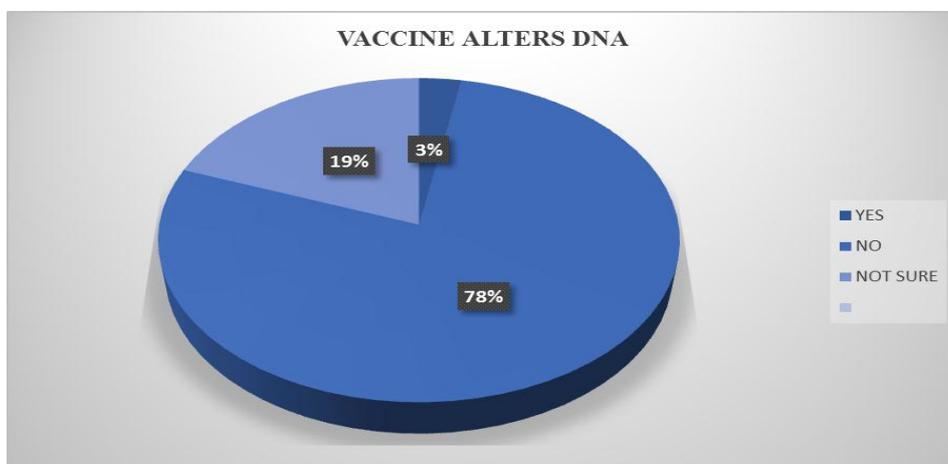
**Fig 5: Can Effect Womens Fertility.**

**VACCINE ALTERS DNA**

About 78% was sure that vaccine does not alter DNA but 3% was sure vaccine alters DNA and 19% was not sure as shown in table 6.

**Table 6: Vaccine Alters Dna.**

Vaccine Alters Dna	No Of Responses	Percentage
YES	4	3%
NO	109	78%
NOT SURE	27	19%



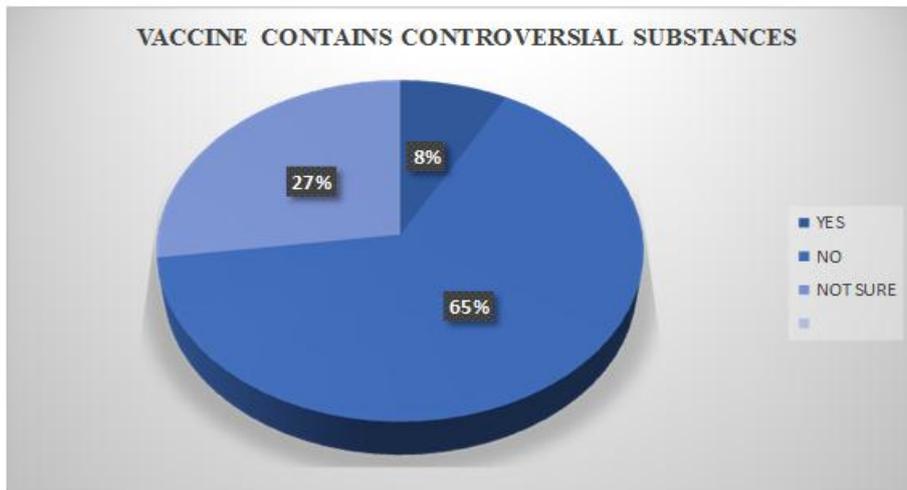
**Fig 6: Vaccine Alters Dna.**

**VACCINE CONTAINS CONTROVERSIAL SUBSTANCES**

About 8% responded yes, 65% no and 27% was not sure for whether vaccine contains controversial substances as shown in table 7.

**Table 7: Vaccine Contains Controversial Substances.**

Vaccine Contains Controversial Substances	No Of Responses	Percentage
YES	11	8%
NO	91	65%
NOT SURE	38	27%



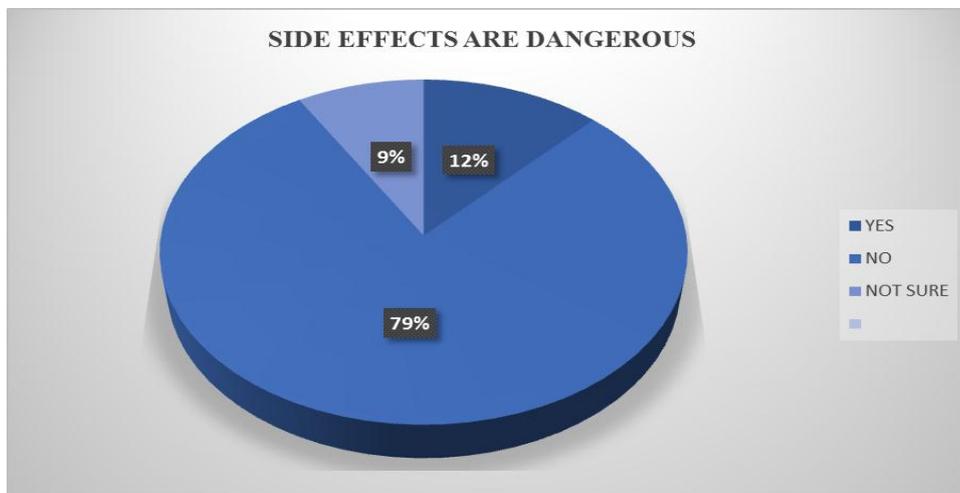
**Fig 7: Vaccine Contains Controversial Substances.**

**SIDE EFFECTS ARE DANGEROUS**

79% of the respondents are aware about the side effects of the vaccination but 21% was not sure as shown in the table 8.

**Table 8: Side Effects Are Dangerous.**

Side Effects Are Dangerous	No Of Responses	Percentage
YES	17	12%
NO	111	79%
NOT SURE	12	9%



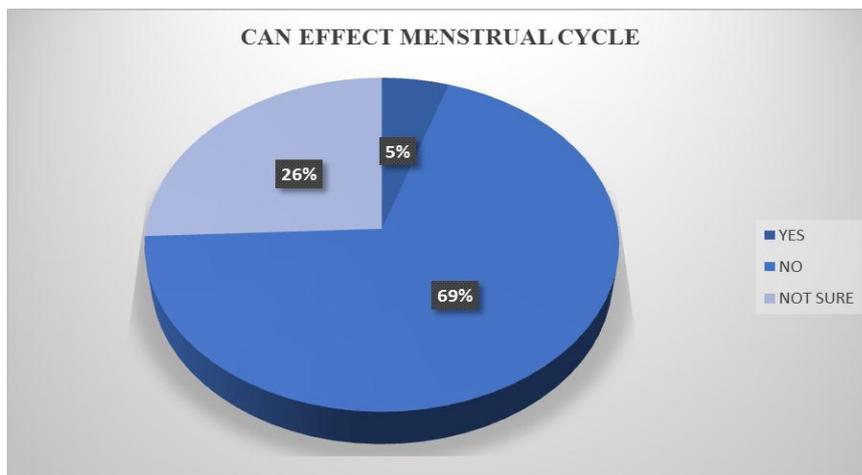
**Fig 8: Side Effects Are Dangerous.**

**CAN EFFECT MENSTRUAL CYCLE**

Among 140 respondents 7(5%) responded yes, 97(69%) no and 36 (26%) was not sure whether vaccination can effect menstrual cycle as shown in table 9.

**Table 9: Can Effect Menstrual Cycle.**

Can effect menstrual cycle	No of responses	Percentage
YES	7	5%
NO	97	69%
NOT SURE	36	26%



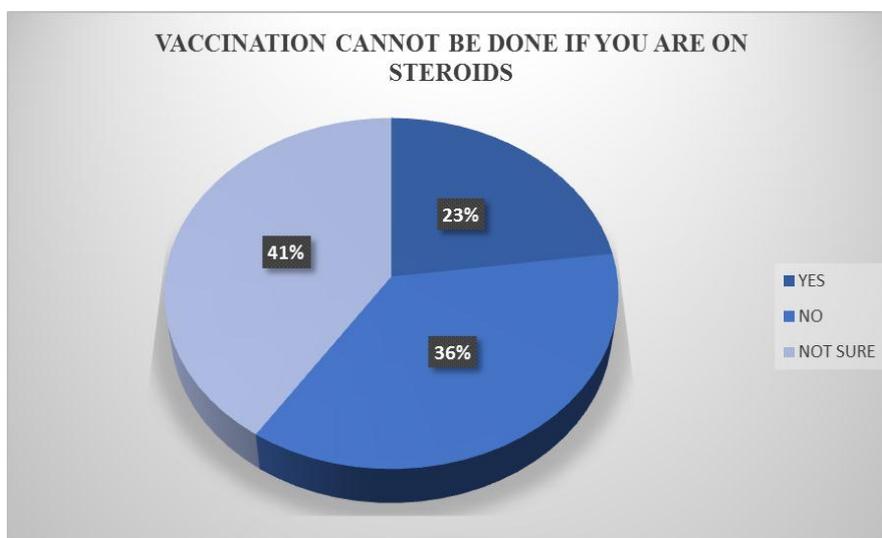
**Fig 9: Can Effect Menstrual Cycle.**

**VACCINATION CANNOT BE DONE IF YOU ARE ON STEROIDS**

36% respondent responded that vaccine cannot be done if you are on steroids but 23% responded yes and 41% was not sure as shown in the table 10.

**Table 10: Vaccination Cannot Be Done If You Are On Steroids.**

Vaccination Cannot Be Done If You Are On Steroids.	No Of Responses	Percentage
YES	32	23%
NO	51	36%
NOT SURE	57	41%



**Fig 10: Vaccination Cannot Be Done If You Are On Steroids.**

**PREFERENCE OF VACCINE**

69% preferred Covishield, 24% preferred Covaxine and 7% preferred sputnik as shown in table 11.

**Table11: Preference of Vaccine.**

Preference Of Vaccine	No Of Response	Percentage
COVAXINE	34	24%
COVISHIELD	97	69%
SPUTNIK	9	7%

**REASON FOR PARTICULAR PREFERENCE**

35%,1% and 64% of the respondent preferred the particular vaccine, due to efficacy, expense and safety, respectively as shown in table 12.

**Table12: Reason For Particular Preference.**

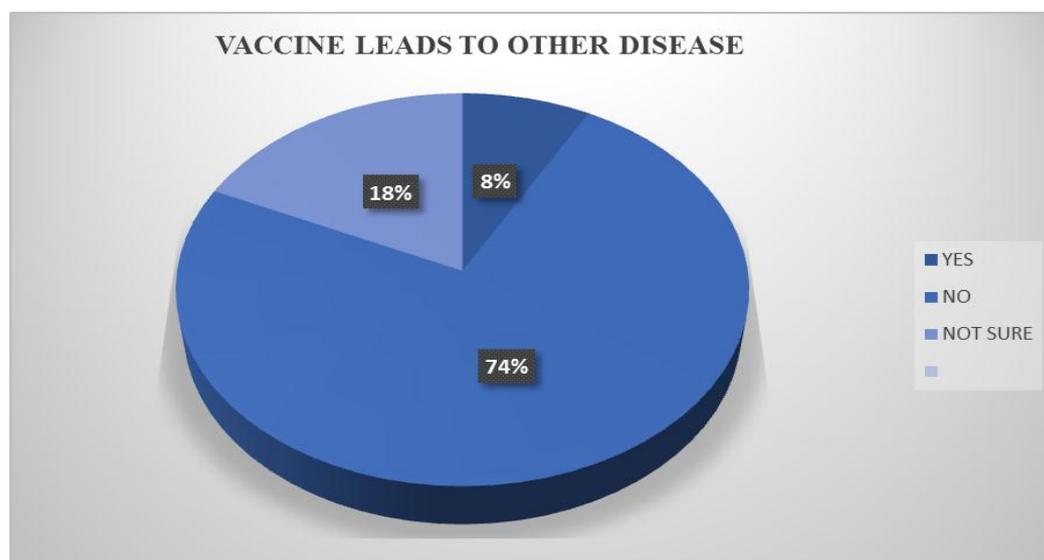
Reason For Particular Preference	No Of Response	Percentage
EFFICACY	48	35%
EXPENSE	2	1%
SAFETY	90	64%

**VACCINE LEADS TO OTHER DISEASE**

Among 140 respondent 107(74%) does not believe that vaccine leads to other disease,7(8%) believed and 26(18%) was not sure about it as shown in the table 13.

**Table 13: Vaccine Leads To Other Disease.**

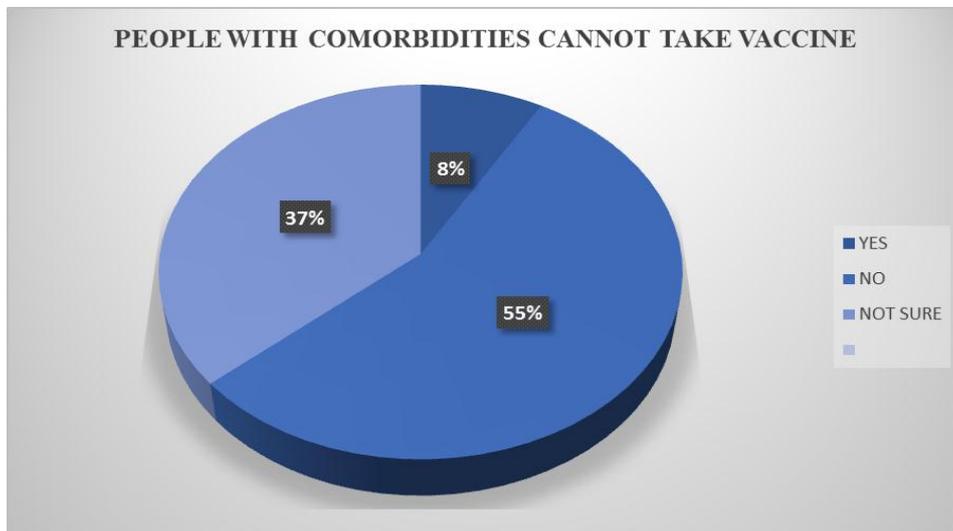
Vaccine Leads To Other Disease	No Of Responses	Percentage
YES	7	8%
NO	107	74%
NOT SURE	26	18%

**Fig 11: Vaccine Leads To Other Disease.****PEOPLE WITH COMORBIDITIES CANNOT TAKE VACCINE**

Out of 140 respondents 14(8%) responded that people with comorbidities cannot take vaccine,76(55%) responded no and 50(37%) was not sure as shown in table 14.

**Table 14: People With Comorbidities Cannot Take Vaccine**

People With Comorbidities Cannot Take Vaccine	No Of Responses	Percentage
YES	14	8%
NO	76	55%
NOT SURE	50	37%



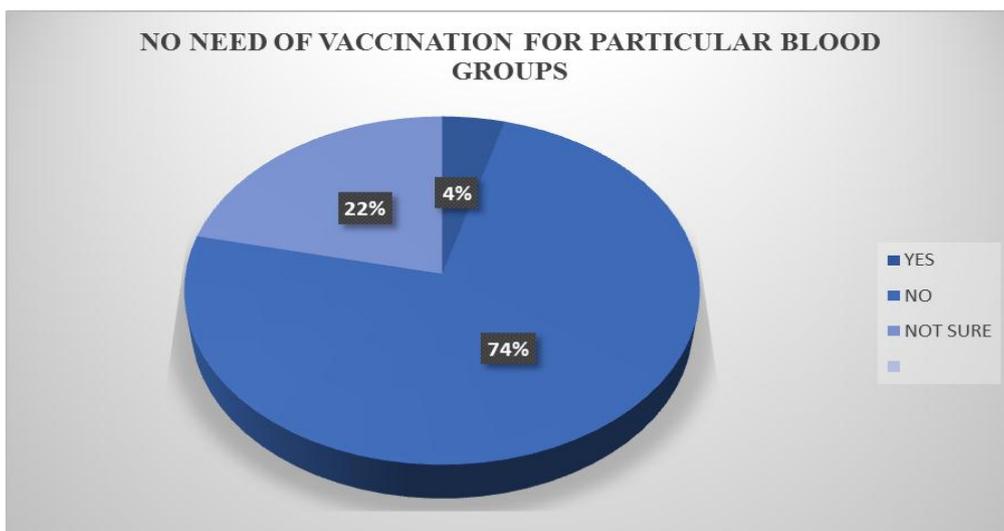
**Fig12: People With Comorbidities Cannot Take Vaccine.**

**NO NEED OF VACCINATION FOR PARTICULAR BLOOD GROUPS**

4% responded yes,74% s no and 22% of respondent was not sure about that no need of vaccination for particular blood groups as shown in table 15.

**Table 15: No Need Of Vaccination For Particular Blood Groups.**

No Need Of Vaccination For Particular Blood Groups	No Of Responses	Percentage
YES	6	4%
NO	104	74%
NOT SURE	30	22%



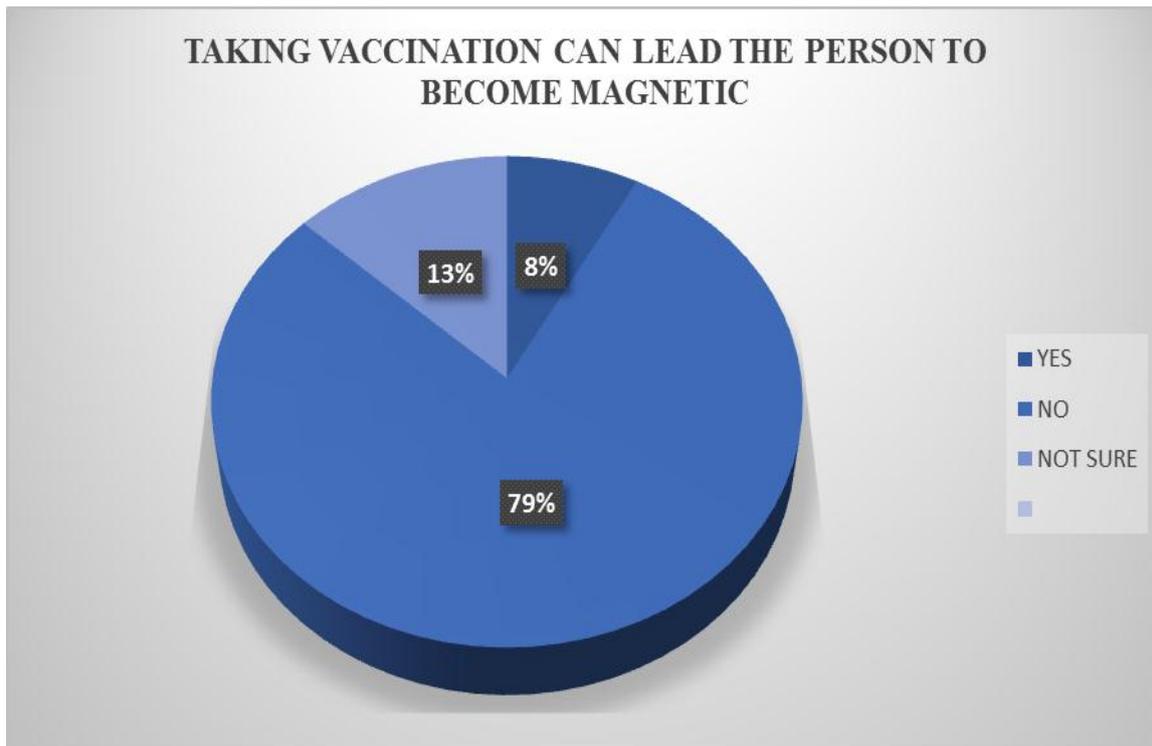
**Fig 13: No Need Of Vaccination For Particular Blood Groups.**

**TAKING VACCINATION CAN LEAD THE PERSON TO BECOME MAGNETIC**

8% respondent responded taking vaccination can lead the person to become magnetic, 79% responded no and 13% was not sure as shown in table 16.

**Table 16: Taking Vaccination Can Lead The Person To Become Magnetic.**

Taking Vaccination Can Lead The Person To Become Magnetic	No Of Responses	Percentage
YES	7	8%
NO	114	79%
NOT SURE	19	13%



**Fig 14: Taking Vaccination Can Lead The Person To Become Magnetic.**

**TAKING VACCINATION CAN LEAD TO DEATH**

Among 140 respondent 2(8%) responded yes for taking vaccination can lead to death,124(83%) no and 14(9%) was not sure about it as shown in table 17.

**Table 17: Taking Vaccination Can Lead To Death.**

Taking Vaccination Can Lead To Death	No Of Responses	Percentage
YES	2	8%
NO	124	83%
NOT SURE	14	9%

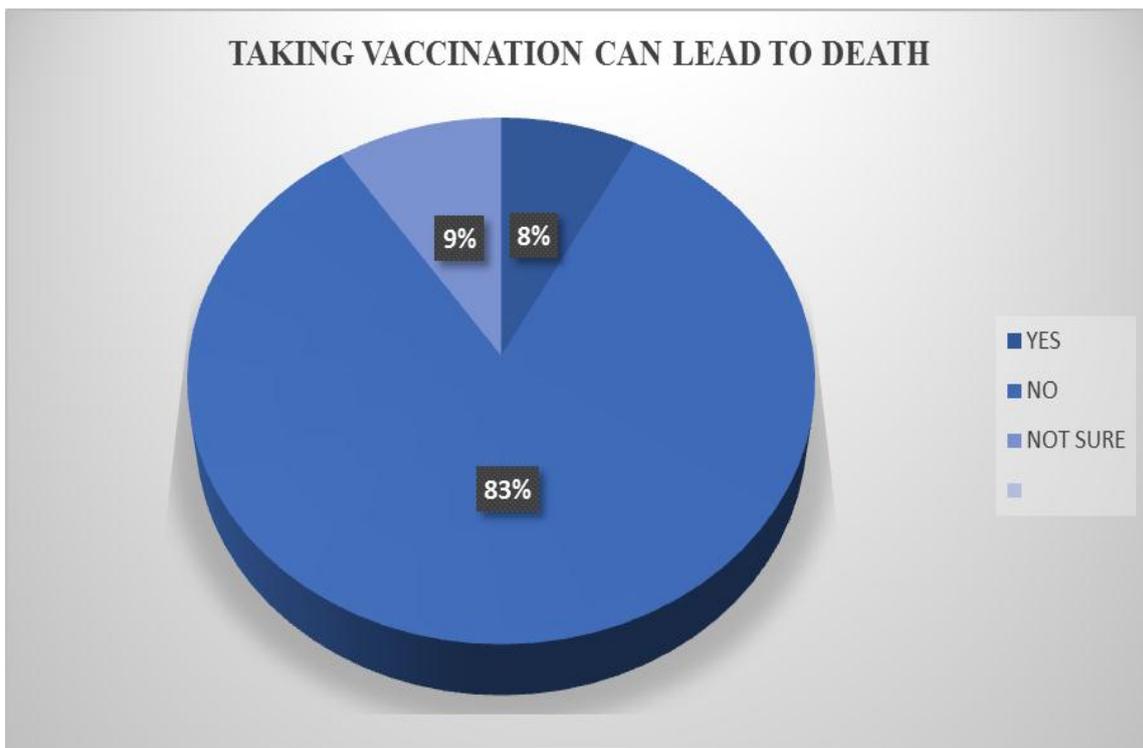


Fig 15: Taking Vaccination Can Lead To Death.

**Taking Vaccination Can Lead To Covid 19**

7% Believed Taking Vaccination Can Lead To Covid-19, 81% Believed It Does Not Lead And 12% Was Not Sure As Shown In Table 18.

**Table 18: Taking Vaccination Can Lead To Covid 19**

Taking Vaccination Can Lead To Covid 19	No Of Responses	Percentage
YES	9	7%
NO	114	81%
NOT SURE	17	12%

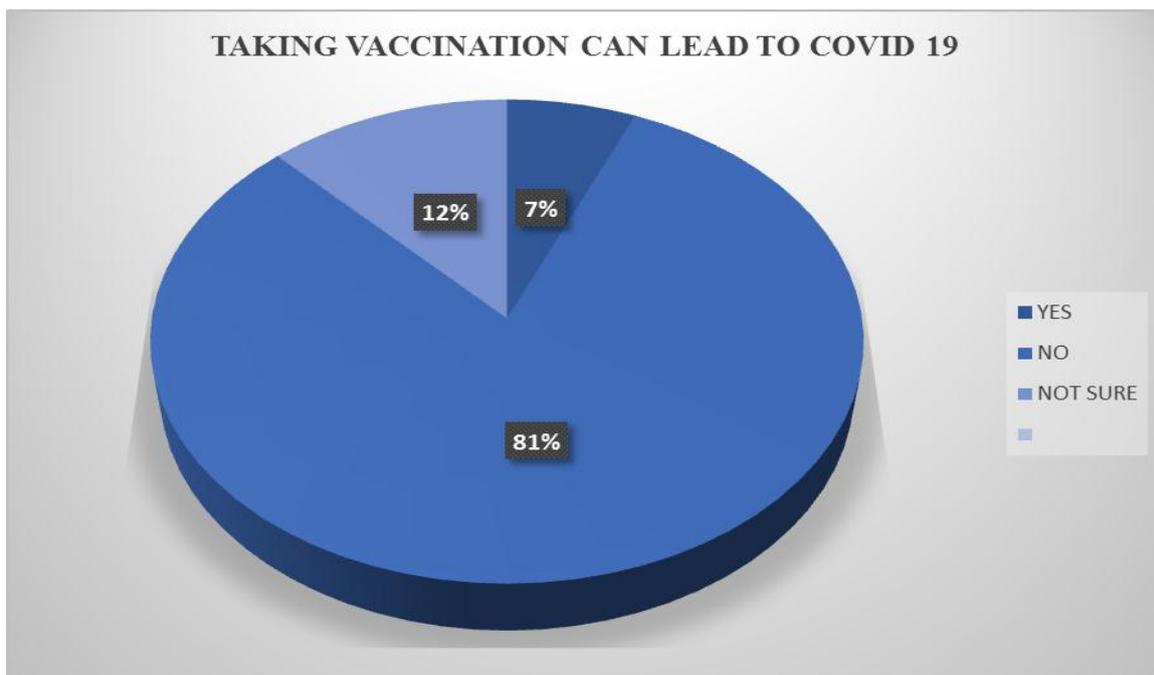


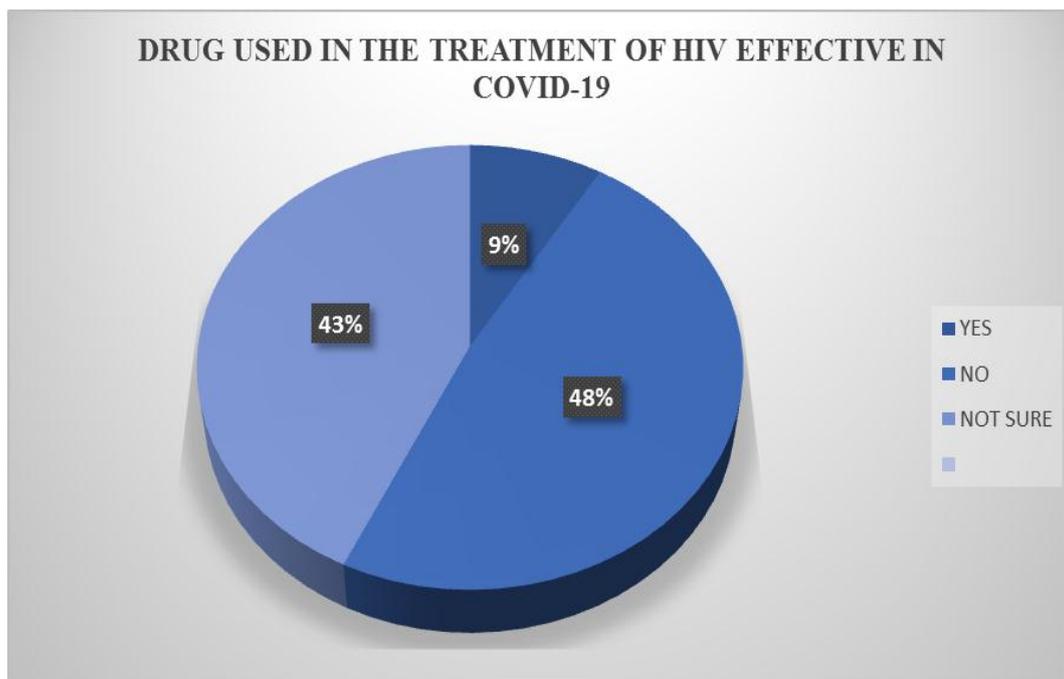
Fig 16 : Taking Vaccination Can Lead To Covid 19.

**DRUG USED IN THE TREATMENT OF HIV EFFECTIVE IN COVID-19**

Among 140 respondent 43% responded as drug used in the treatment of HIV was effective in COVID-19 as shown in table 19.

**Table 19: Drug Used In The Treatment Of Hiv Effective In Covid-19**

Drug Used In The Treatment Of Hiv Effective In Covid-19.	No Of Responses	Percentage
YES	19	9%
NO	57	43%
NOT SURE	64	48%



**Fig 17: Drug Used In The Treatment Of Hiv Effective In Covid-19.**

**DISCUSSION**

Immunization is consolidating individuals immune system against an infectious disease, mainly by vaccination. Vaccines are feasibly the best hope for ending the COVID-19 pandemic. Woefully, there are some erroneous information related to vaccines and their development which steer to temporize the public. Covid 19 respiratory infectious deadly disease caused by novel corona virus which have taken many lives. In this prospective observational study we ascertain the awareness about Covid19 vaccination among 140 common people in that 23% believed holding breathe is a test for COVID 19, 56 % dose not believed and 21 % is not sure about it. 14% said that affected and recovered person should not take COVID19 vaccine but 80% said no and 6 % is not sure about it. 2 % believed yes 92 % no and 6% was not sure about the myth, After vaccination no need of wearing mask. 33% said that effectiveness and safety cannot be trusted, 52% said not and 15 % was not sure about it. 9% said yes 71% no and 20% was not sure about whether vaccine Can effect women fertility. 3% believed that Vaccine alters DNA 78% does not believed and 19% was not sure. 8% said yes 65% no and 27% was not sure about, Vaccine

contains controversial substances. 12% believed 79% does not and 9% was not sure about, Side effects are dangerous. 5% said yes, 69% said no and 26% was not sure about the myth vaccine Can effect menstrual cycle. 23% believed that Vaccine cannot be done if you are on steroids but 36% does not believe and 41% was not sure about it. Most of the people prefer a particular vaccine due to its efficacy and safety.8% believed that Vaccine leads to other disease but 74% does not believed and 18% was not sure about it. 8% said yes, 55% said no and 37% was not sure about the myth that people with comorbidities cannot take vaccine. 4% believed that there is no need of vaccination for particular blood groups but 74% does not believed and 22% was not sure about it.8% believed 79% does not and 13% was not sure about that taking vaccination can lead the person to become magnetic. 8% said that taking vaccination can lead to death but 83% said no and 9% was not sure. 7% said yes 81% said no and 12% was not sure about taking vaccination can lead to COVID 19. Most of the people was not sure about the myth, drug used in the treatment of HIV is Effective in COVID 19.

**CONCLUSION**

The study was taken up to ascertain the myth and fact among covid 19 vaccination. This prospective observational study was conducted among 140 people with a short period of two days. Even though information about vaccine COVID-19 is limited, the majority of the interviewee were willing to get vaccinated. From this inquiry we have observed that more than half the strength of the people are well aware about the fact about the vaccination, which will be helpful to pull the sting of this deadly disease and also some people should be given more awareness about the vaccination.

**ACKNOWLEDGMENT**

First and foremost, we would like to thank God Almighty for giving us the strength, ability and opportunity to undertake this study and to preserve and complete it. We thank all the pharmacies for granting permission to utilize the services required for our project.

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