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### A cross sectional survey on side effects of COVID vaccination

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#### Abstract

**Background:** Vaccines are a critical tool in the battle against COVID-19, and there are clear public health and lifesaving benefits to using the tools we already have. We must not put off getting vaccinated because of our concerns about new variants, and we must proceed with vaccination even if the vaccines may be somewhat less effective against some of the COVID-19 virus variants.

**Aim:** To identify the side effects of COVID 19 vaccination among health care workers after getting COVID 19 vaccination.

**Method:** A descriptive cross sectional study conducted during the COVID 19 pandemic. Non-probability Convenience sampling technique was used for data collection. Data were collected from 80 health care workers, using questionnaire consisted of demographic characteristics and 18 items about COVID 19 vaccination related side effects.

**Result:** Findings of experiencing symptoms by health workers after COVID vaccination with in 24 hrs are pain at the site of injection lasting for 2-3 days is 67.5%, Headache and Aches of muscle pain having same percentage 62.5. And due to unbearable side effects none of the health care workers got admitted in hospital.

**Conclusion:** COVID-19 vaccines can cause side effects, most of which are mild or moderate and disappear within a few days on their own as shown in result. So COVID vaccination will be continue as successful strategy.

**Keywords:** COVID pandemic, COVID vaccination, experiencing symptoms, health care workers

#### Introduction

The year 2020 will enter the set of experiences books as the year where another dangerous COVID stopped the world. Drug organizations leaped to the salvage with significant interests in immunization innovative work.

Vaccines are a critical tool in the battle against COVID-19, and there are clear public health and lifesaving benefits to using the tools we already have. We must not put off getting vaccinated because of our concerns about new variants, and we must proceed with vaccination even if the vaccines may be somewhat less effective against some of the COVID-19 virus variants. We need to use the tools we have in hand even while we continue to improve those tools. We are all safe only if everyone is safe.

#### Statement

"A cross sectional survey among health care workers on side effects after getting COVID 19 vaccination".

**Objective:** To identify the side effects of COVID 19 vaccination among health care workers after getting COVID 19 vaccination.

#### Methodology

**Design:** This was a descriptive cross sectional study conducted during the COVID 19 pandemic. Non-probability Convenience sampling technique was used for data collection.

**Participants:** Data were collected from 80 health care workers working in Bombay Hospital, Indore.

**Inclusion criteria:** Health workers may include all categories of staff working in the hospitals. Those health workers who have already been vaccinated against COVID-19 as part of the routine COVID-19 vaccine rollout can be included.

**Exclusion Criteria:** health workers who are not eligible for COVID-19 vaccination should not be participate in the study.

**Data collection:** Data was collected between 16 February 2021 – 15 March 2021 using questionnaire consisted of demographic characteristics and 18 items about COVID 19 vaccination related side effects. Formal permission was obtained from concerned authority for data collection. The analysis of the data was done by using descriptive statistics.

## Results

**Table 1:** Findings of socio demographic variables

S. No	Socio demographic variables	Frequency	Percentage
1	Age		
	18-28 years	64	80
	29-38 years	12	15
	39-48 years	2	2.5
	49-58 years	2	2.5
	59 and above 60 years	0	0
2	Sex		
	Male	6	7.5
	Female	74	92.5
3	Working Hours		
	8 hrs	64	80
	10 hrs	6	7.5
	12 hrs	10	12.5
4	Time of administration of vaccination		
	Morning (9-12 pm)	50	62.5
	Afternoon (12.05- 3 pm)	22	27.5
	Evening (3.05-5pm)	8	10

**Table 1:** Findings of experiencing symptoms by health workers after COVID vaccination with in 24 hrs

S. No	Symptoms	Yes		No	
		Freq.	Percentage	Freq.	Percentage
1	Headache	50	62.5	30	37.5
2	Fever	44	55	36	45
3	Fever relived after taking antipyretic	32	40	48	60
4	Chills	30	37.5	50	62.5
5	Nausea	8	10	72	90
6	Vomiting	8	10	72	90
7	Fatigue	28	35	52	65
8	Aches of muscle pain	50	62.5	30	37.5
9	Loss of taste	8	10	72	90
10	Sore throat	6	7.5	74	92.5
11	Eye pain	6	7.5	74	92.5
12	Allergy	0	00	80	100
13	Chest pain	2	2.5	78	97.5
14	Difficulty in breathing	4	5	76	95
15	Insomnia	8	10	72	90
16	Anxiety	20	25	60	75
17	Pain at the site of injection lasting for 2-3 days	54	67.5	26	32.5
18	Due to unbearable side effects got admitted in hospital	00	00	80	100

## Conclusion

COVID-19 vaccines can cause side effects, most of which are mild or moderate and disappear within a few days on their own as shown in result. Due to unbearable side effects of COVID vaccination none of health workers got admitted in hospital. So we need to continue COVID vaccination as successful strategy to cover the remaining population.

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