

# After Vaccination Effect of COVID-19 Vaccines “Covishield and Covaxin” in India: A Comparative Study

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## Abstract

The authors have made a comparison study about the effects of after vaccination of two different vaccine said Covishield and Covaxin in different age groups, different gender, Rural or Urban, they are/were in service or doing/were doing own business. The authors have shown their study through column chart, which makes study easier to understand comparative study. The authors have also tried to find the reasons of the differences. The authors feel, the survey provide a comparative study among different age groups so anybody can prepare himself/herself for future.

**Key words:** Covishield, Covaxin, Yoga, Meditation, Urban, Rural.

## 1. Introduction

India began administration of COVID-19 vaccines on 16 January 2021. Two vaccines received approval for emergency use in India at the onset of the programme; Covishield—a brand of the Oxford–AstraZeneca vaccine manufactured by the Serum Institute of India, and Covaxin, which was developed by Bharat Biotech.

## 2. Main Study

The authors have surveyed total 860 persons who had been vaccinated out of which 532 have preferred Covishield, they are further subdivided like this: age group more than 60: total number of persons are 304 out of which 178 are male and out of 178 male (104 are from urban area and 74 from rural area) and 126 are female and out of 126 female (80 are from urban area and 46 are from rural area), the age group of 45-60 total number of persons are 228 out of which 134 are male and out of 134 male (72 are from urban area and 62 are from rural area) and 94 are female out of 94 female (56 are from urban area and 38 are from rural area).

Similarly, 338 persons have decided to adopt Covaxin, they are also further subdivided as above like: age group more than 60: total number of persons are 182 out of which 110 are male and out of 110 male (62 are from urban area and 48 from rural area) and 72 are female and out of 72 female (40 are from urban area and 32 are from rural area), the age group of 45-60, total number of persons are 156 out of which 96 are male and out of 96 male (52 are from urban area and 44 are from rural area) and 60 are female out of 60 female (36 are from urban area and 24 are from rural area).

In survey the authors have found very interesting figures that after taking Covishield in age group of above 60 years 83% male and 81% female in urban area had no fever or any other complications after vaccination i.e. only 17% of male and 19% of female had some mild fever and body ache after 12 hours of vaccination approximately as if they had vaccinated at 11.00 a.m. then they started fever at 11.00 p.m. nearly, while 78% of male and 73% of female of rural area had no fever or other problems i.e. 22% of male and 27% of female had some mild fever and body ache after 12 hours of vaccination. Out of 83% of male 63% are doing service while 37% have their own business or doing agriculture or doing labor. Similarly out of 81% of female 47% are in service while 53% are either housewives or labor.

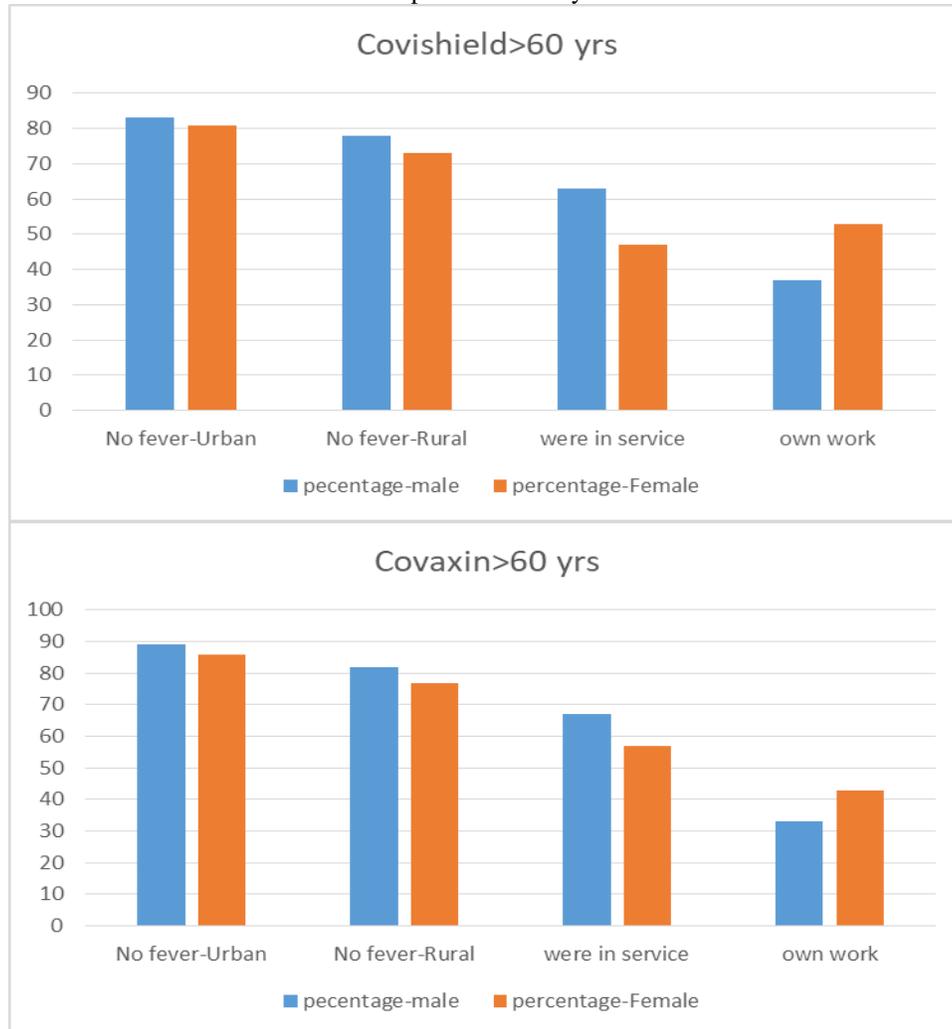
On the other hand in the age group of above 60, after taking Covaxin in same age group, 89% of male and 86% of female in urban area had no trouble of any kind (no fever and no pain) after vaccination it means 11% of male and 14% of female had some mild fever or body pain after/within 24 hours of vaccination. Similarly in rural area 82% of male and 77% of female had no problem after vaccination i.e. 18% of male and 23% of female had a mild fever and body pain after/within 24 hours of vaccination. Out of 89% of male 67% are doing service while 33% have their own business or doing agriculture or doing labor. Similarly out of 86% of female 57% are in service while 43% are either housewives or labor.

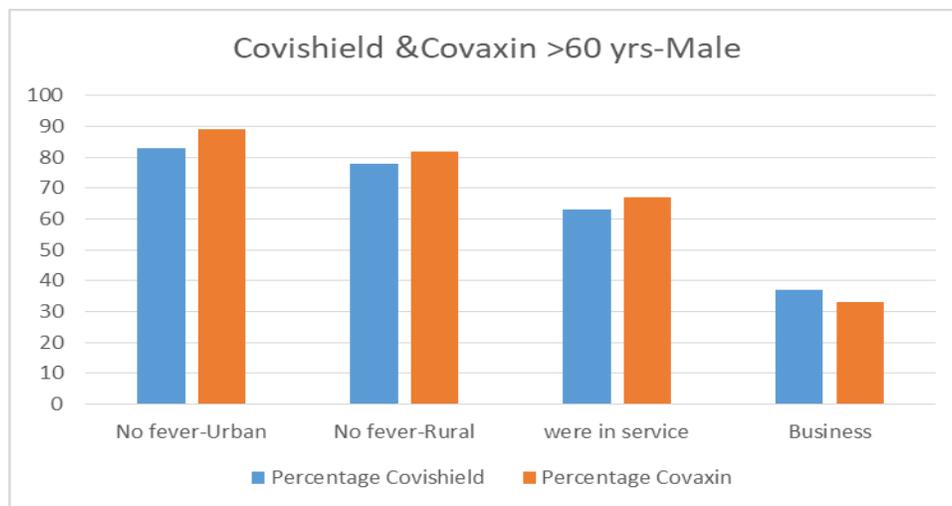
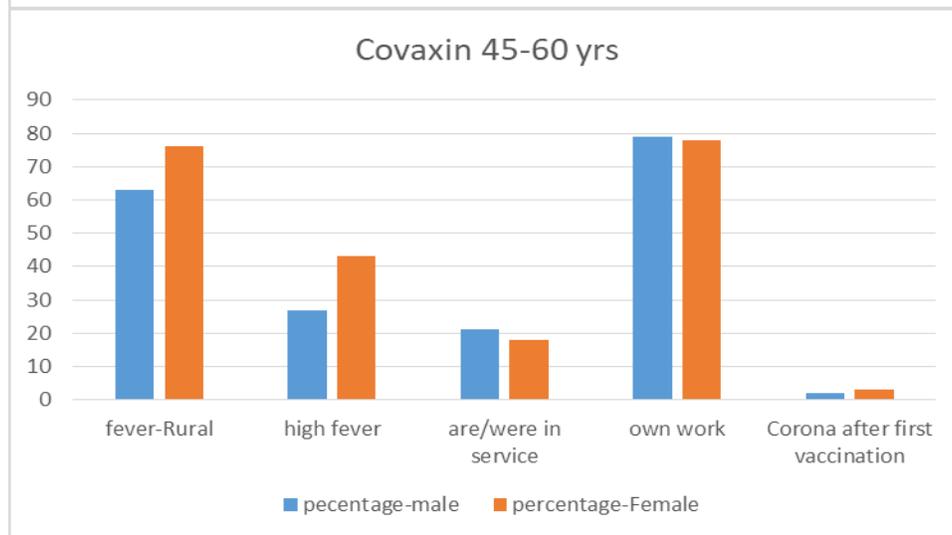
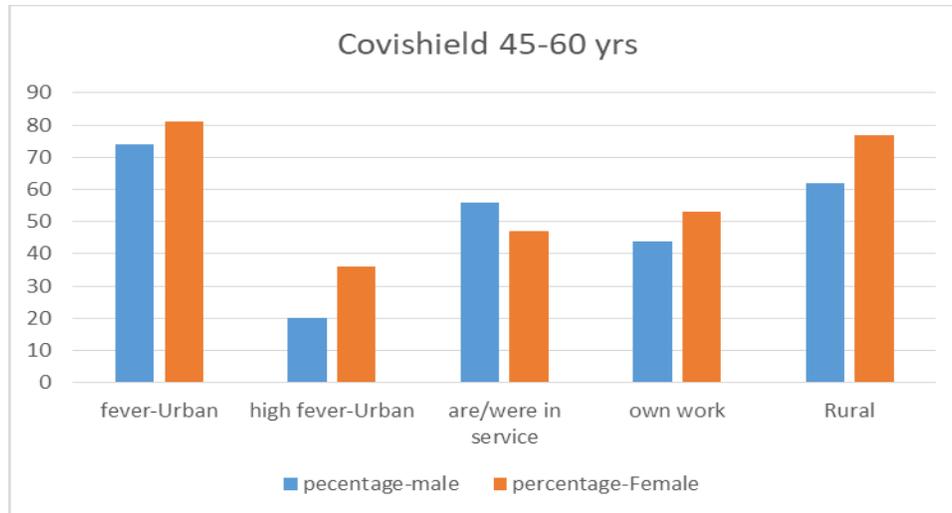
In the age group of 45-60 after vaccinating Covishield 74% of male and 81% of female of urban area had mild to medium fever and body pain after 12 hours of vaccination among these 74% of male 20% had high fever and among

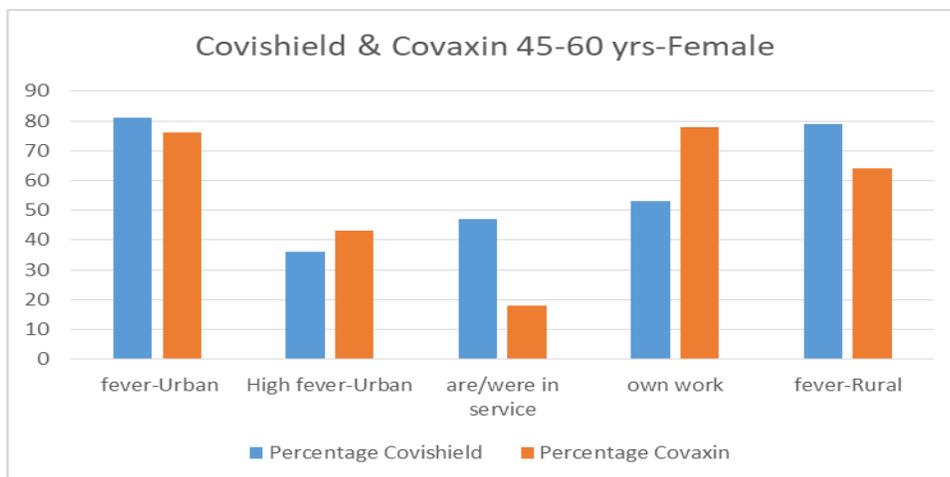
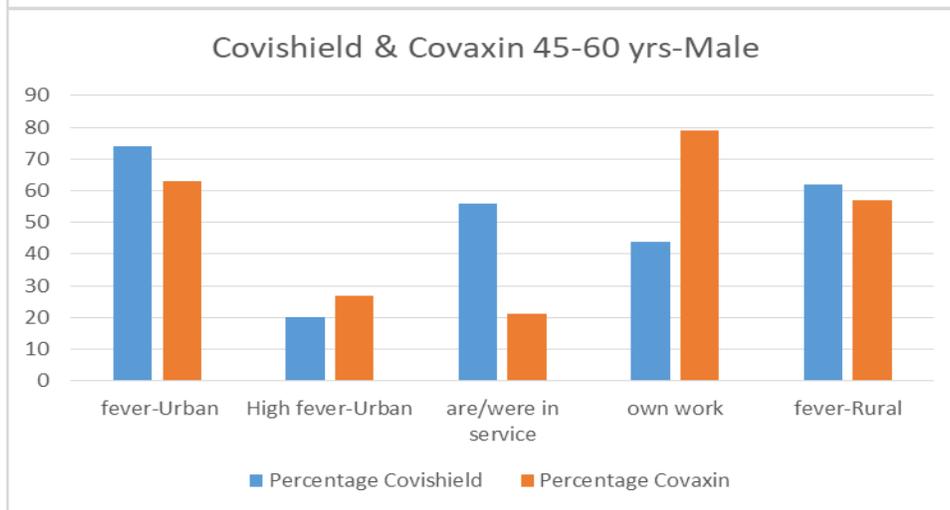
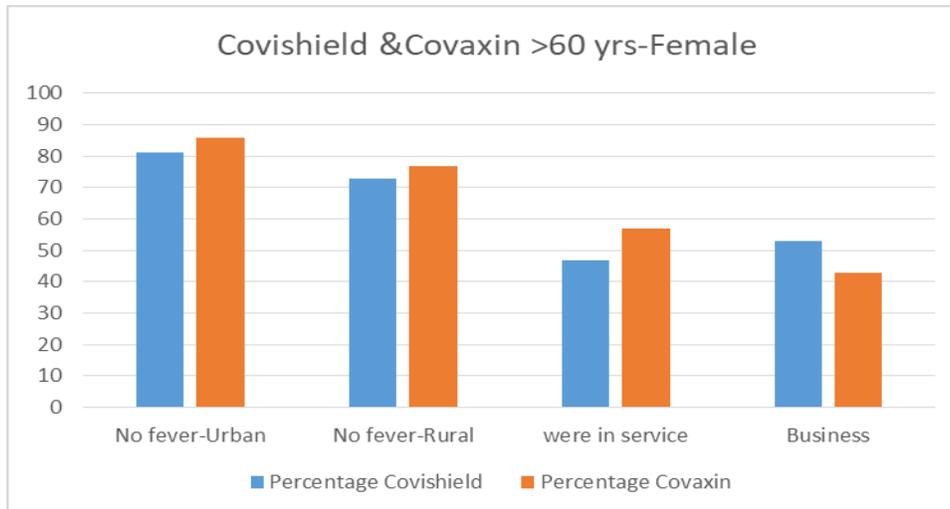
81% of female 36% of female had high fever for two to three days. While 62% of male and 77% of female of rural areas had fever and body pain. Out of 74% of male 56% are doing service while 44% have their own business or doing agriculture or doing labor. Similarly out of 81% of female 47% are in service while 53% are either housewives or labor.

Now in age group between 45-60, after taking Covaxin 63% of male and 76% of female from rural area had mild fever and body pain after 24 hours of vaccination among these 63% of male 27% had high fever and among 76% of female 43% had high fever for two or three days. Out of 63% of male 21% are doing service while 79% have their own business or doing agriculture or doing labor. Similarly out of 76% 18% are in service while 78% are either housewives or labor or doing agriculture. In this age group .20% of male and .60% of female have been tested positive of corona virus.

The authors have tries to explain their study about the chart as below:







After analyzing the above data, some interesting facts come out as extract, they are as:

1. In the above 60 years age group people, the urban area people having less percentage of getting fever or any type of complications in comparison of rural area people of same age group in both segment male or female.
2. In the above 60 years age group people, who were in jobs having less percentage of any complication in both segment to comparison of the people who are/were in business and other household works.

3. In the age group of 45-60, the rural area people have shown comparatively better performance and they had less problems after vaccination in all segments: male or female; urban or rural; working or nonworking. In this survey, the authors have also tried to find the reason why age group above 60 years people have played a better performance from the lower age group 45-60 people. They watched and asked these group people about their daily routine and conclude that the above 60 years age group people.

- Live a better discipline life.
- They are very punctual about their daily routine (wake up early in the morning and go to bed early in night).
- They maintain their restrict food habits as they take less but healthy food specially most of them are vegetarian and generally they avoid junk food.
- They try to keep more peace and less tension in their life.
- The couple have more adjustment and cooperation or we can say they are more caring to each other.
- They are having less responsibilities (as they feel they have completed their maximum responsibilities).
- They spent more time with their age group people/ friends.
- They take regular medicine to control journal diseases like: B.P., Sugar, Heart problems etc. so it might possible they could able to control Corona.
- They indulge themselves in some light exercise (Yoga) and meditation (especially most of them doing Anulom-Vilom, KapalBhati).
- They walk regularly at least on time either morning or evening.
- They are more spiritual means they believe in destiny more and spend more time in praying.
- They also feel leader of the home.

**Conclusion**

The authors conclude that if a person lives a discipline life, tries to find ways to walk more and more, do some yoga and meditation, having less tension leads a better healthy life. Which we have seen in our study that senior citizens are showing better results in this pandemic crisis.

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