

# **A Study on Hospital Based Covid 19 Deaths and Morbidities in Rajasthan**

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# Introduction

- The spread of SARS-Cov2 virus infection, commonly known as COVID-19, has caused a major health concern all over the world naming it a global pandemic.
- Globally, as of 9 June 2021, there have been 173,609,772 confirmed cases of COVID-19, including 3,742,653 deaths, reported to WHO.
- As of 7 June 2021, India had 4.23% positivity rate, 94.55% recovery rate and 1.22% COVID mortality rate.

| States         | Test Positivity Rate (%) | Case Fatality Rate (%) | Recovery Rate (%) | Active Rate (%) | Population (Crore) |
|----------------|--------------------------|------------------------|-------------------|-----------------|--------------------|
| Global         | 0.5                      | 2.17                   | 70.27             | 6.3             | 767                |
| India          | 7.63                     | 1.31                   | 95.31             | 1.41            | 136                |
| Maharashtra    | 5.6                      | 1.7                    | 95.5              | 2.8             | 12.62              |
| Karnataka      | 9.8                      | 1.2                    | 90.9              | 7.9             | 7.05               |
| Kerala         | 14.7                     | 0.4                    | 94.4              | 5.2             | 3.48               |
| Tamil Nadu     | 12.4                     | 1.2                    | 89.9              | 8.9             | 7.88               |
| Andhra Pradesh | 11.2                     | 0.7                    | 93.5              | 5.8             | 9.25               |
| Uttar Pradesh  | 0.3                      | 1.3                    | 97.9              | 0.8             | 23.5               |
| West Bengal    | 10.7                     | 1.1                    | 97.8              | 1               | 10.19              |
| Delhi          | 0.6                      | 1.7                    | 98                | 0.3             | 3.1                |
| Chhattisgarh   | 2.8                      | 1.3                    | 96.7              | 2               | 2.98               |
| Rajasthan      | 2                        | 0.9                    | 97.8              | 1.2             | 8.07               |

Source: [www.COVID19india.org](http://www.COVID19india.org)

## Study Questions

What were the symptoms in patients at the time of hospitalisation?

Whether patients were suffering from any morbidities other than COVID?

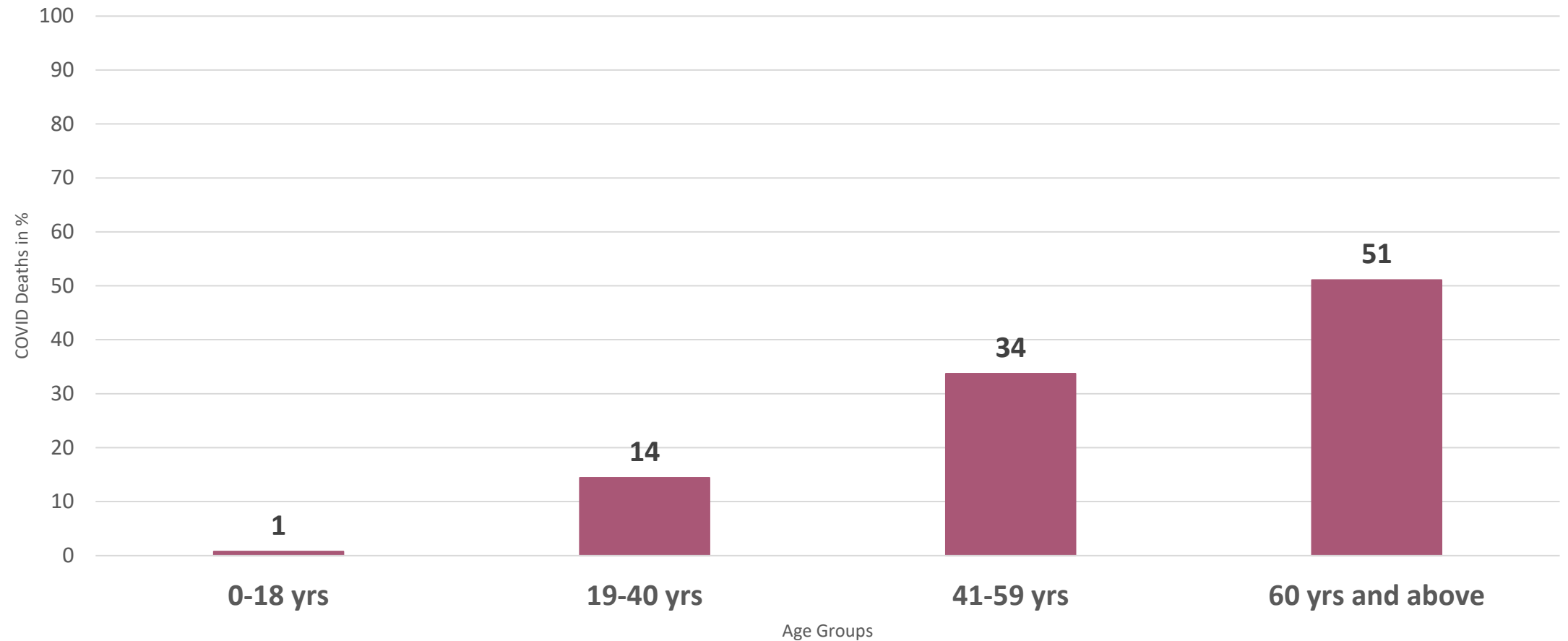
## Objectives

To review the literature on COVID related indicators.

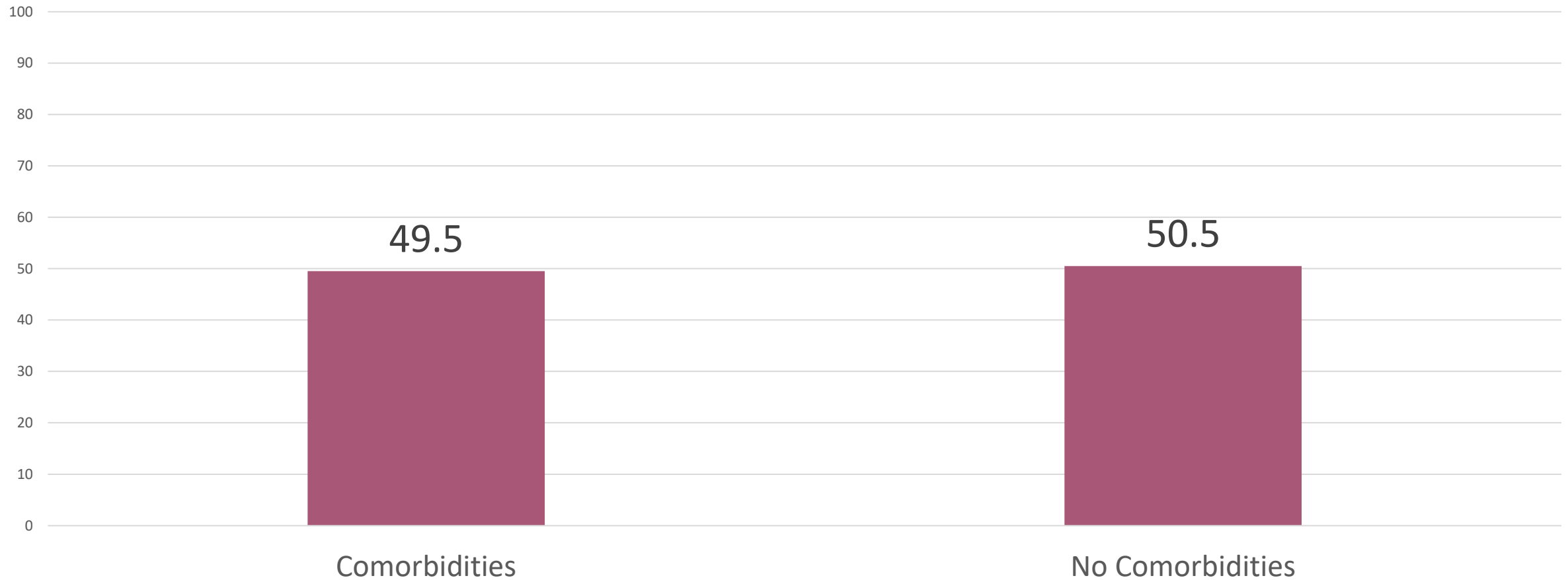
To study COVID Deaths in Rajasthan and associated morbidities.

To study the symptoms amongst COVID 19 death patients at the time of hospitalisation.

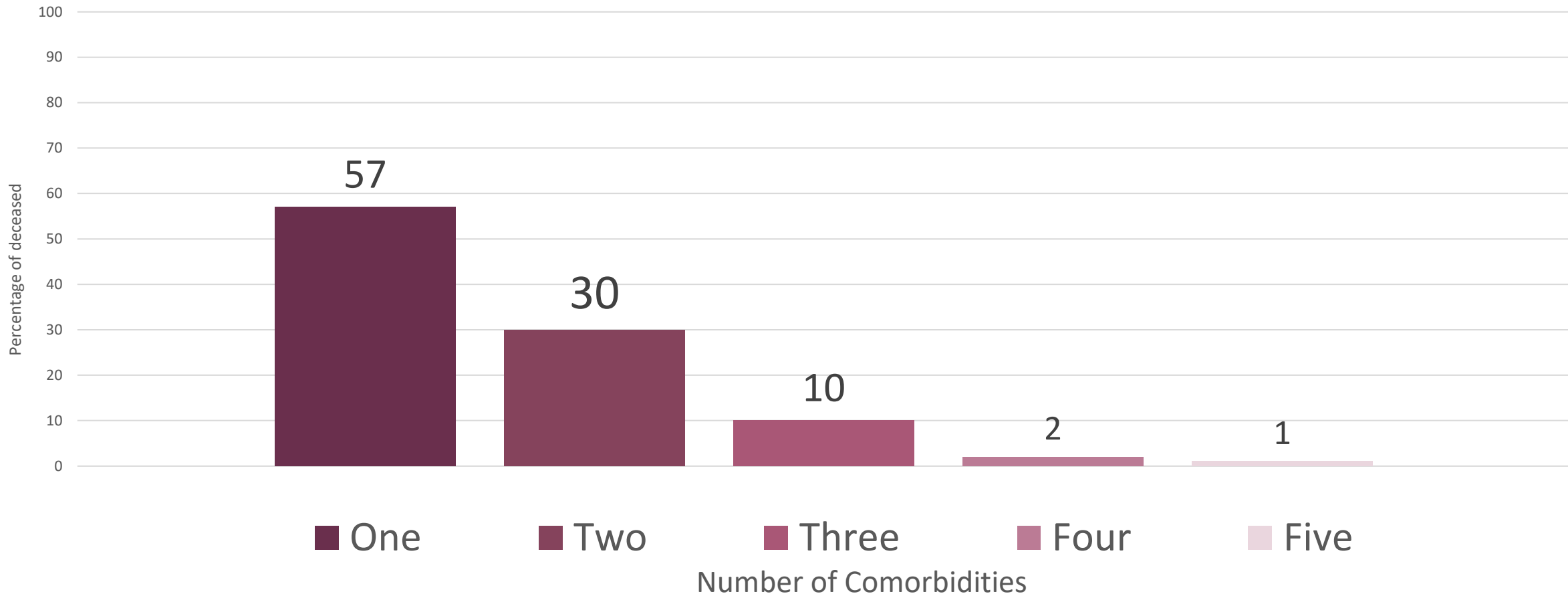
# Percent distribution of COVID Deaths by age groups (n=5440)



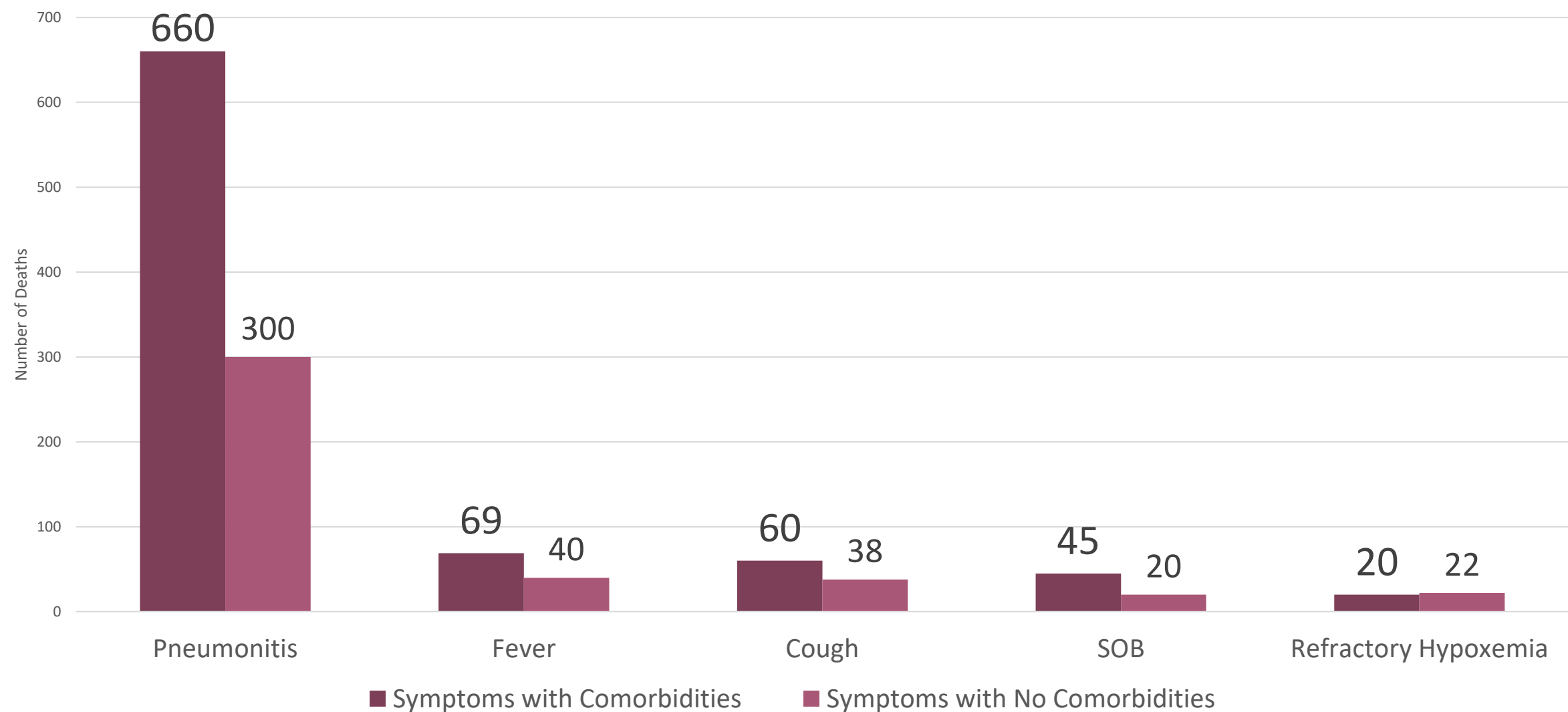
## Percent Distribution of COVID deaths by status of comorbidities. (n=4993)



# Percent Distribution of COVID deaths with respect to number of comorbidities. (n=2473)

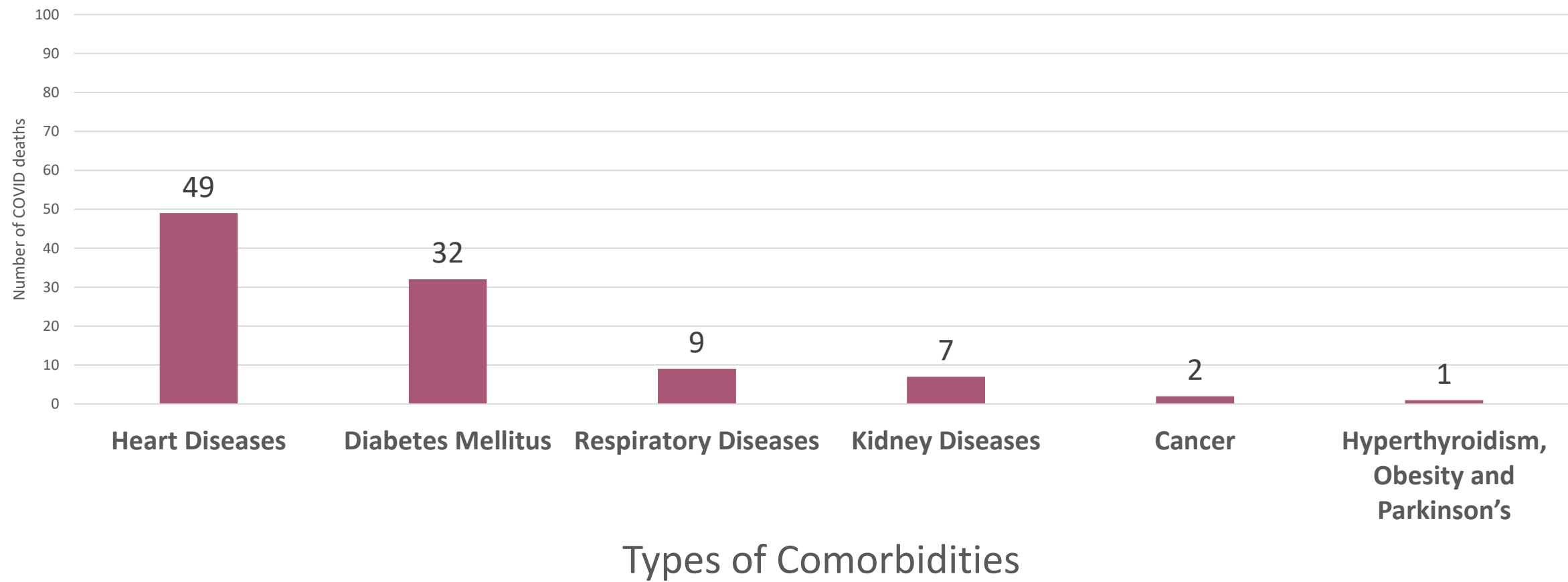


# Symptoms with Comorbidities & No Comorbidities in COVID Deaths (n=1274)

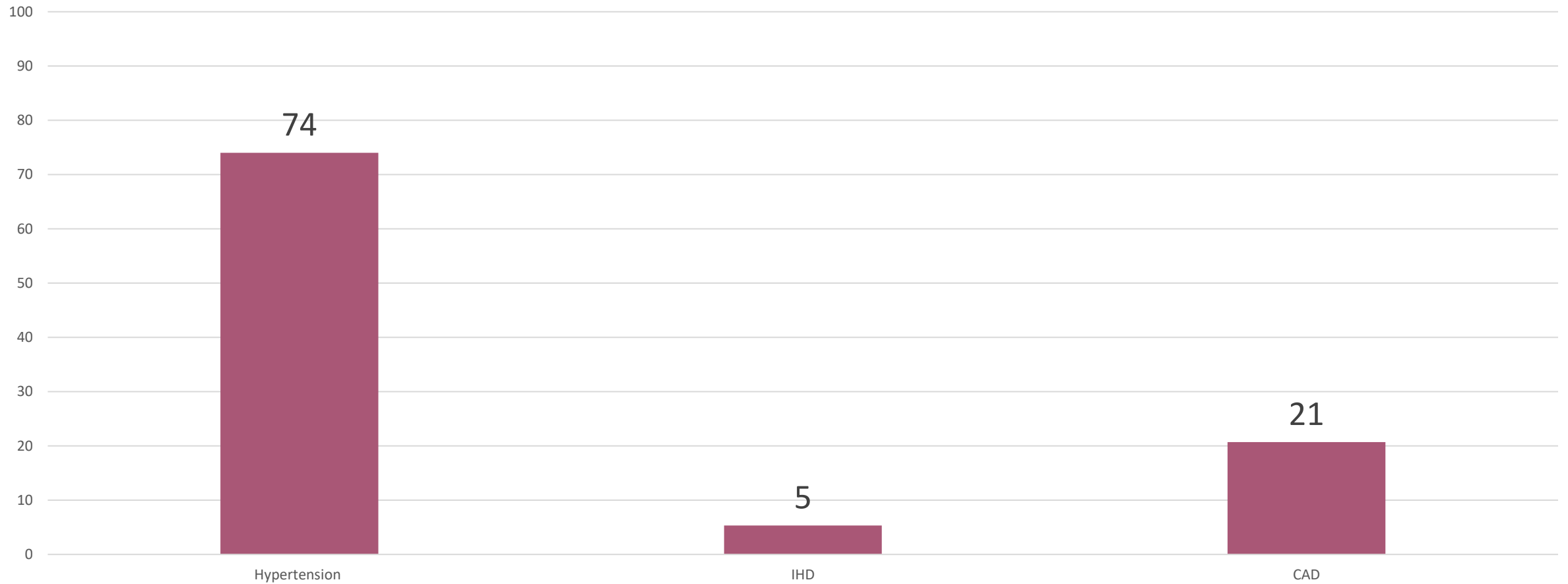




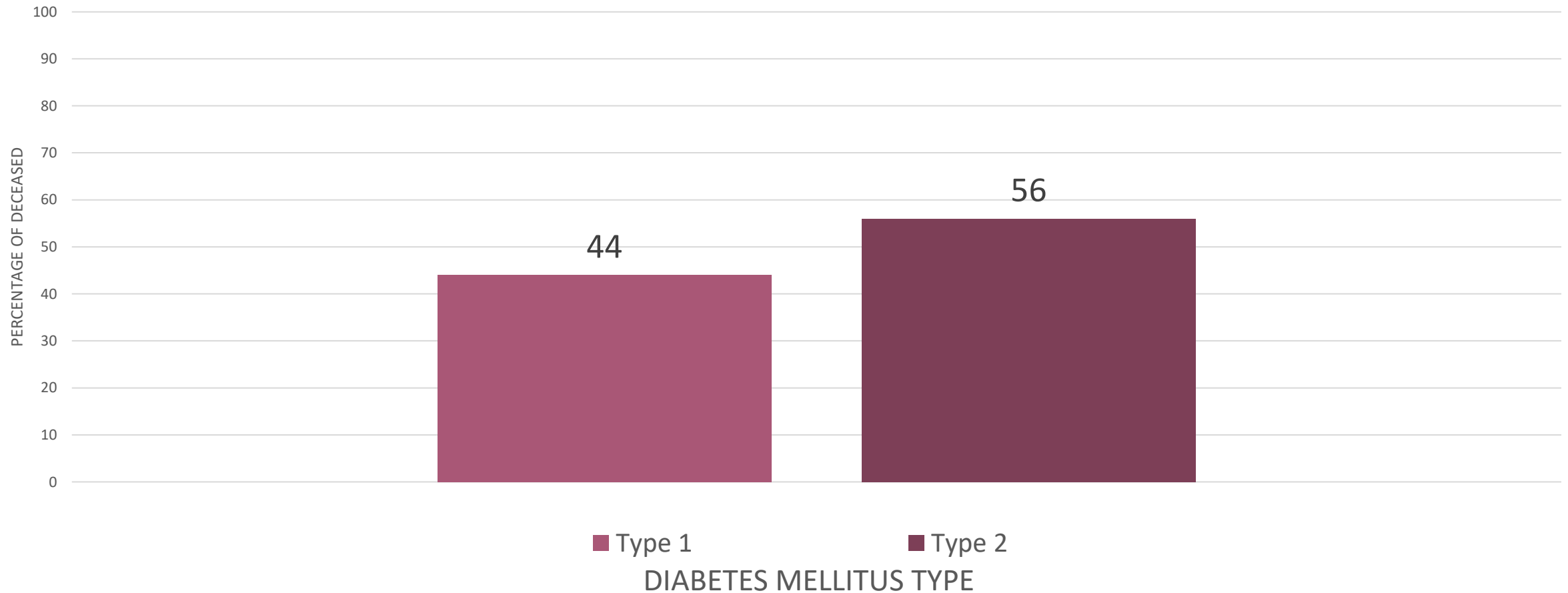
# Percent Distribution of COVID deaths with respect to types of comorbidities (n=2473)



## Percent Distribution of COVID deaths by types of heart related comorbidities (n=1204)



## Distribution of COVID deaths with respect to type of diabetes Mellitus (n=787)



# Conclusion

1

Of total 5440 COVID deaths, 60% were males while rest 40% were females. A majority of COVID deaths were found among elderly persons. More men (60%) died than women.

2

Out of 4993 reported deaths 2473 (50%) were associated with co-morbidities.

3

Of actual sample of 4993 COVID Deaths, 2473 deceased had comorbidities of which 854 were symptomatic while rest 1619 were asymptomatic. While of 2520 deaths which were without comorbidities, 1274 were symptomatic while rest 1246 were asymptomatic.

4

Most common symptoms in COVID Deaths: Pneumonitis (75%) followed by second most common symptoms that was Fever in 9% COVID deceased, cough in 8%, Shortness of breath in 5% and refractory hypoxemia in 3% of COVID deceased.

5

Major comorbidities among COVID deaths in Rajasthan mainly included Heart Diseases, Diabetes Mellitus, Respiratory Diseases and Kidney Diseases.

6

Out of 1204 COVID deaths which were associated with heart related comorbidities, the results revealed that of every 10 deaths, 7-8 persons were suffering from hypertension. Out of 787, COVID deaths which were associated with diabetes mellitus, the results revealed that of every 10 deaths, 5-6 persons were suffering from type 2 diabetes.