

Summer Training

At

(C K Birla Hospitals)

From date (10th may 2021) to (2nd July 2021)

A Report

By

Manish Kumar

MBA in hospital and healthcare management

2020-22



Institute of Health Management Research, Jaipur

The IIHMR University, Jaipur

2020

Acknowledgement

First and foremost, I express my sincere gratitude for this internship opportunity I had with **C K Birla hospital, RBH** Jaipur, Rajasthan. it was a nice place to gain a knowledge and I have learned much during my internship period.

Keeping this in mind I express my deepest gratitude and special thanks to **Dr. suhasani jain** (Medical superintendent) who guided me throughout my internship despite being extraordinarily busy with their duties.

I express my deepest thanks to **Dr. Abhimanyu Sethi** for all useful decision in my project, giving advices, guidance and arranged all facilities throughout my summer training,

I am thankful and fortunate enough to get consistent encouragement, support and supervision from all seniors of my department which helps me in completing my project.

Most importantly I would like to thank my mentor **Dr. Alok kumar Mathur** for his guidance and motivation throughout the study.

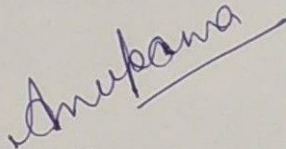
Sincerely,

Manish Kumar

To whom so ever it may concern

This is to certify that Mr. Manish Kumar has successfully completed his internship training in Medical Admin Department from 10th May 2021 to 2nd July, 2021.

We found him sincere, punctual & hardworking. We wish him every success in her future and career.



Anupama Sharma
Unit HR Head
Human Resources

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Acronyms/ Abbreviations:

RBH – Rukmani Birla hospital

IPD – In patient department

OPD – Out patient department

OT – Operation Theatre

CT – Computerized tomography

MRI – Magnetic resonance imagine

IVF – In vitro fertilization

CSSD – Central sterile supply department

ENT – Ear, nose and throat

SARS – severe acute respiratory syndrome

MOHFW – Ministry of health and family welfare

RT- PCR – Reverse transmission polymerase chain reaction

CRP – C- reactive protein

RAT – Rapid antigen test

HRCT – High resolution computerized tomography

MRD – Medical record department

IT – Information technology

LAMA – Leave against medical advice

ALOS – Average length of stay

ICU – Intensive care unit

HDU – High dependency unit

MICU – Medical intensive care unit

Organization profile: -

Rukmani Birla hospitals (RBH) is a multispecialty hospital in Jaipur with world class infrastructure offering IPD and OPD services since inception the hospital has been providing world class clinical experience at par with international standards for its patients.

RBH is a 230 bedded multispecialty facility caters to patient needs and sure that the patient and families are well looked by team of expert doctors, caring nurses, along with organized service support.

Location: -

Rukmani Birla hospitals (RBH), gopalpura bypass road, near triveni bridge, Jaipur-302018

Vision: -

To provide quality Patient Service & Clinical Excellence.

Commitment in Quality-

“To constantly upgrade our human and technological resources aligned with the best global developments in medical science”

Quality Policy Statement-

“To maintain highest standard of quality in the service delivered at the hospital”

Key Principles:

Foundation of RBH has been laid on 3 key principles that define the ethos of the hospital

- Clinical Excellence
- Ethical Conduct
- Patient Centric

Services Provided by the Organization

- In-Patient Services (IPD)
- Out-Patient Services (OPD)
- Day care services
- Dialysis
- Endoscopy
- Diagnostic Services
- Laboratory Services
- Emergency Services
- Radiology

Overview

- Cutting edge technology
- Modular OTs
- Advanced Cath Lab
- CT scan (Wide Bore)
- MRI (Wide Bore)
- Digital Mammography
- Digital X-Ray
- IVF & diagnostic lab
- 12 bed Emergency
- 64 Critical beds
- 15 bed Dialysis unit
- Life saver ambulances
- Ergonomically designed interiors
- CSSD (central sterile supply department)

Specialties at RBH

- Critical care medicine
- Cardiac sciences
- Orthopaedics and joint replacement
- Laparoscopic and minimal invasive surgery
- Renal sciences
- Renal transplant
- Neuro sciences
- Gastro sciences
- Obstetrics & gynaecology
- Paediatrics & neonatology
- Respiratory medicine
- Internal medicine
- Physiotherapy & rehabilitation
- Pain management
- Anaesthesiology
- Endocrinology
- Plastic, cosmetic and reconstructive surgery
- Dental sciences
- Dermatology
- ENT
- Ophthalmology

Support services at RBH

- Ambulance
- Dietetics
- Pharmacology
- Pharmacy
- Blood storage center
- Laboratory medicine
- Radiology

PROJECT

Introduction

As of May 31st, 2021, the world widespread of COVID-19—an fast growing transmissible disease originated from Wuhan, China (SARS-CoV-2)—has resulted in more than [17.6 crore confirmed cases with more than 37lakh deaths](#). And also continuing their deadly effect in many of the countries, currently the new variant Which is alpha, gamma, delta is more dangerous as they are causing more death and also shown their deadly effect in most devastating corona 2nd wave in India which resulted into lakhs of death in the month of April and May.

but the long-term continuous symptoms of the disease are still largely unclear.

Long-term continuous symptoms in patients are difficulty breathing or shortness of breath, fast beating or heart palpitations, fever, headache, no symptoms after discharge, tiredness or fatigue.

After this the full reason of post-discharge characteristics continue to be unknown. Furthermore,

We focused on to explain the long-term attribute of COVID-19 in patients after discharge from hospital and identify the potential risk factors, including severity in disease, any post discharge symptoms and mortality after vaccination.

Research question.

- How many mortalities are there after vaccination from study population?

Specific objectives

- To study mortality rate of covid patient who were vaccinated and admitted to ck Birla hospital.

Methods

This is the Ambidirectional cohort study was done at C K Birla Hospitals, we have added all patients with lab confirmed COVID-19 who was discharged from C K Birla Hospitals between April 1st, and May, 2021.

We included all covid patients admitted and discharged from *RBH* (Total 236) We keep out the subsequent patients: (1) those who died before the follow-up visit, (2) Other (Non-COVID) IPD patients admitted during study period, (3) patients whose phone was unattended.

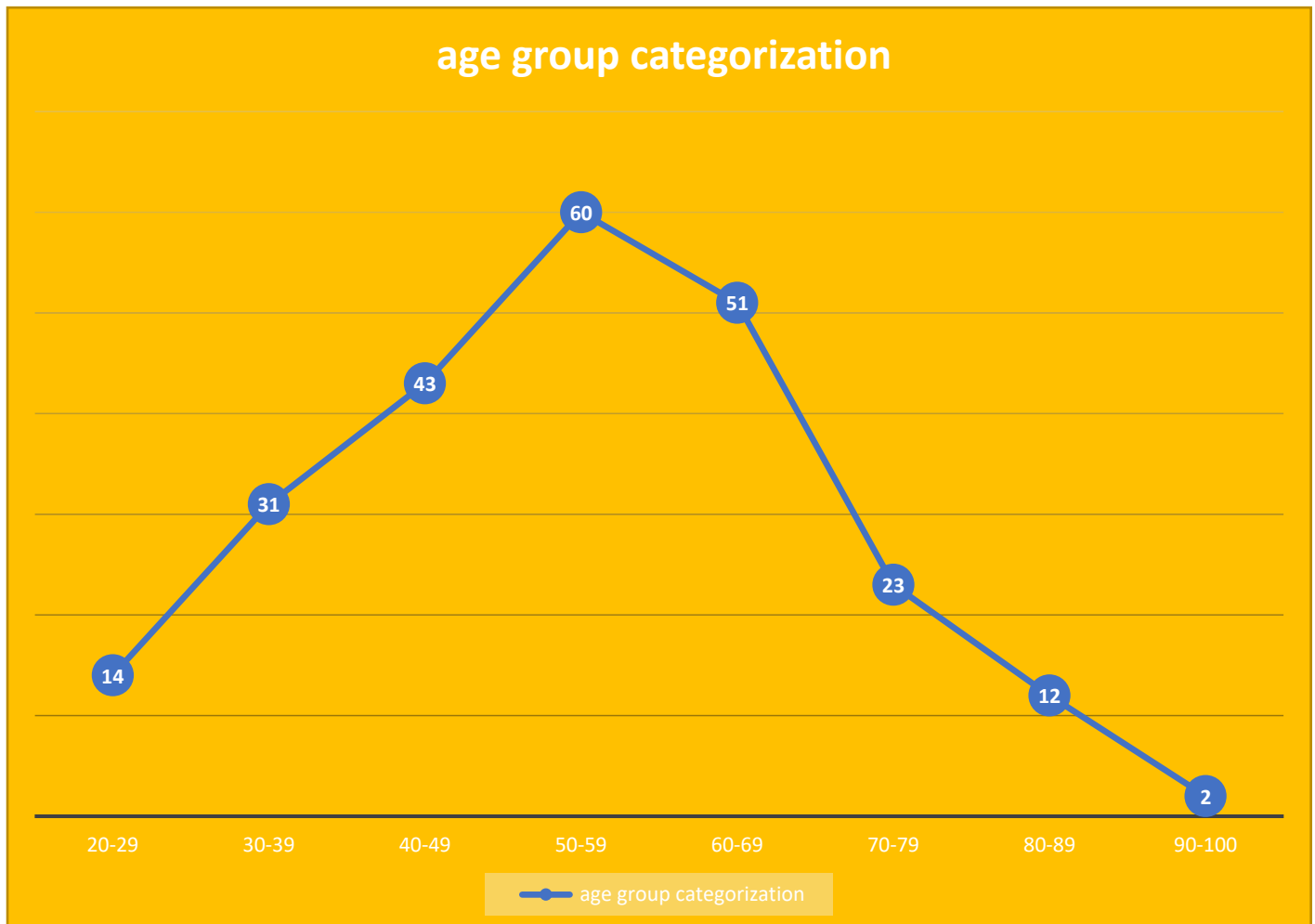
All discharged patients from ck Birla have met uniform discharge criteria in line with the mohfw for COVID-19 RT- PCR test report (i.e., no fever for 3 regular days, improvement in breathing symptoms, d- dimer, crp level, rat test)

Procedures

We visited anamnesis department, contacted IT cell, checked data from electronic medical records to require all data from them of those patients who were admitted between within the month of April and May, all discharge types like normal discharge, lama and deaths also are during this study,

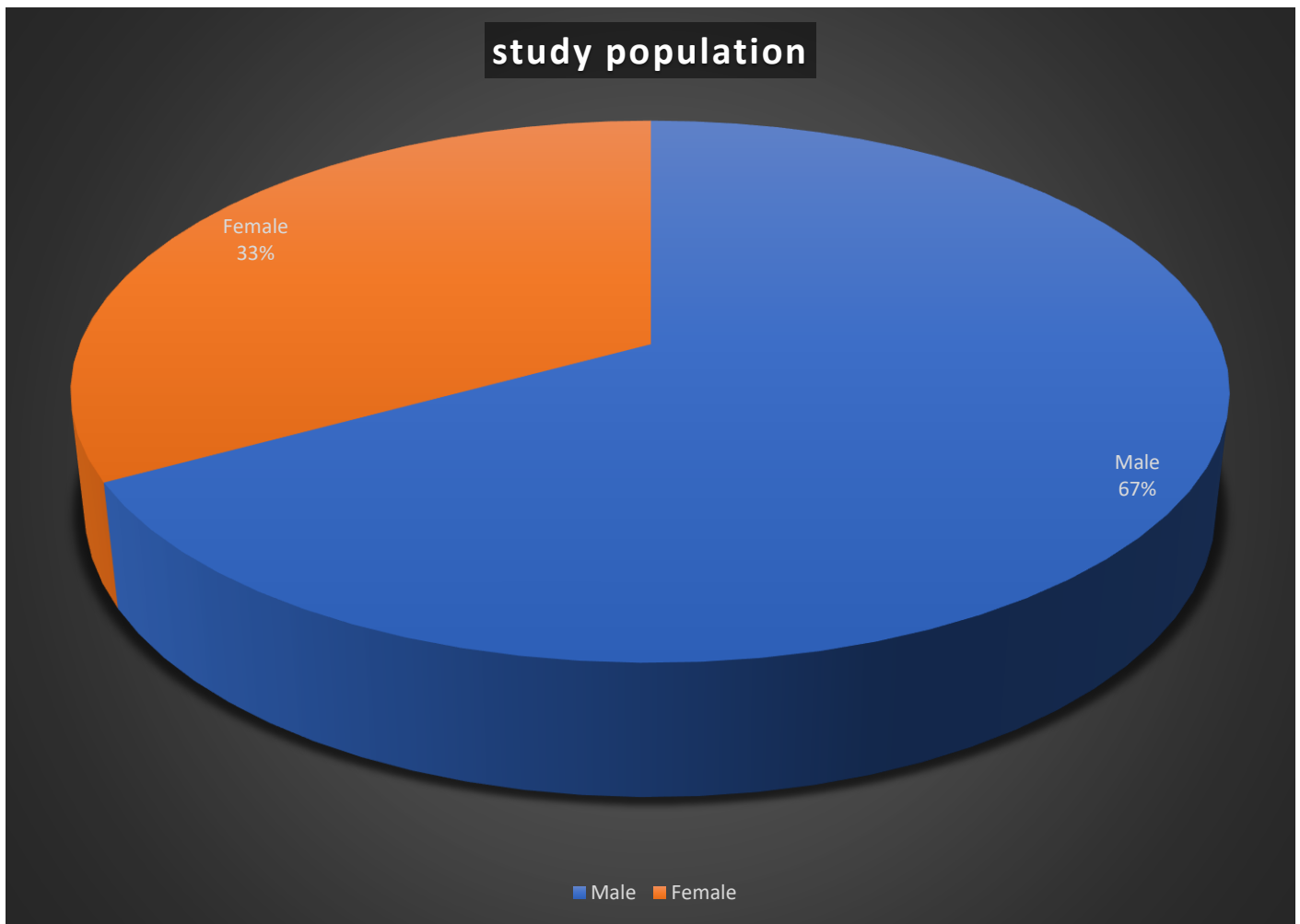
And at the moment we called each individual and asked whether or not they have felt any post discharge symptoms, about their vaccination status and average length of stay within the hospital, and remarks on their reside at RBH.

Age group categorization of covid patients: -



- Median age of study people was 55.
- As we will from graph mostly patients are there within the age bracket of 50-59.

Study population of covid patients: -



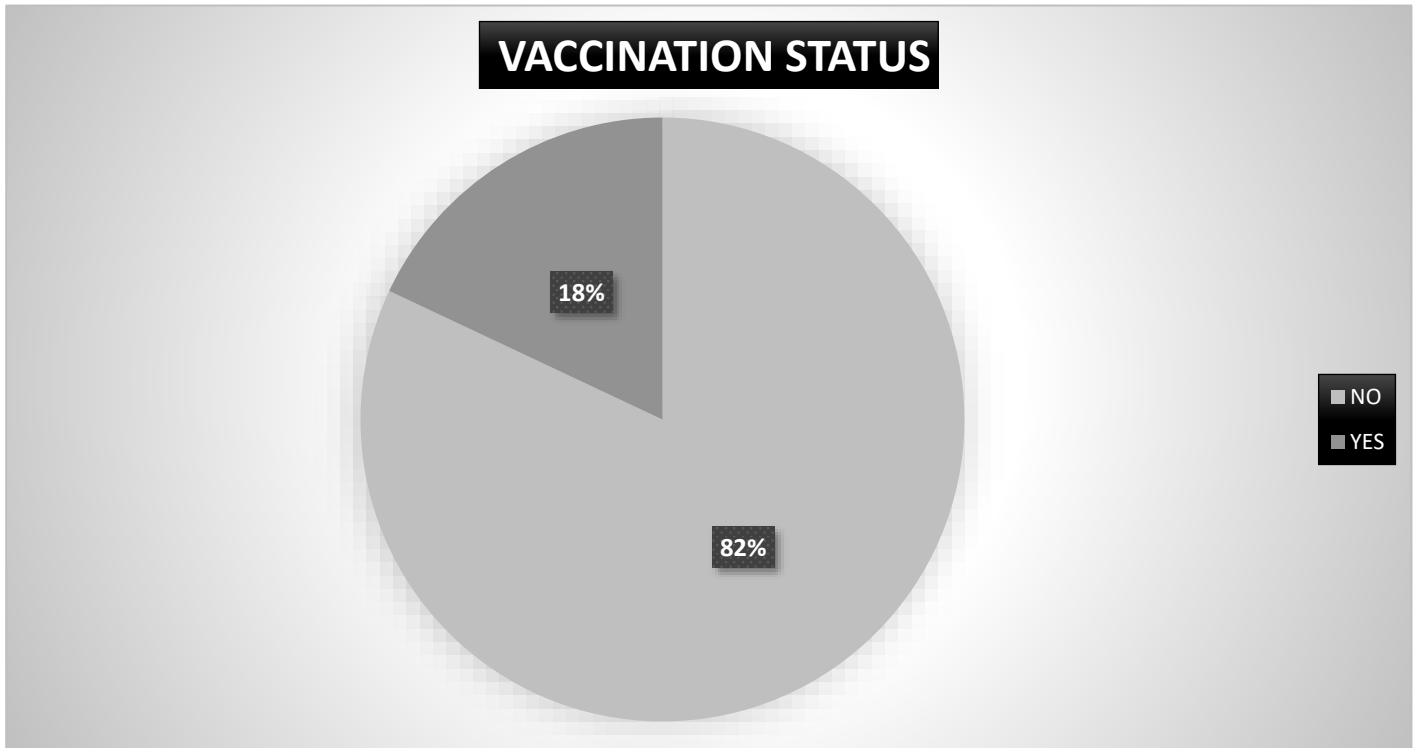
1.) A total of 236 patients were within the study.

- ALOS of male (157) – 8 days
- ALOS of female (79) – 6 days

2.) 15 % of patients stayed in ICU from all 236 covid patients

- % Male patients in ICU – 80%
- % Female patients in ICU – 20%

Vaccination status of study population: -



- 82% people from study population weren't inoculated even with a single dose.
- Only 18% people from study population were inoculated with a single dose.
- 39 Out of 236 people were vaccinated with single dose out of which 4 were expired.
- No one were fully inoculated with both of the doses.

Results

- The total of 236 patients of COVID were discharged from C K Birla Hospitals between April 1st, and May 31st 2021, including all normal discharge, lama and deaths. 56 patients were excluded because patients' phone was unattended, and non-covid patients weren't included within the study, Notably, 2 patients were expired after normal discharge (0.84%) of the 236 patients after normal discharge mainly because of co-morbidities as their age was between (70-75).
- 2 patients out of 236 were readmitted to hospital as their age was above 70 and they are also suffering from co-morbidities Finally, 236 participants were confirmed for questionnaire interview, where we asked about their any post covid symptoms they are affected by within which post covid symptoms includes,

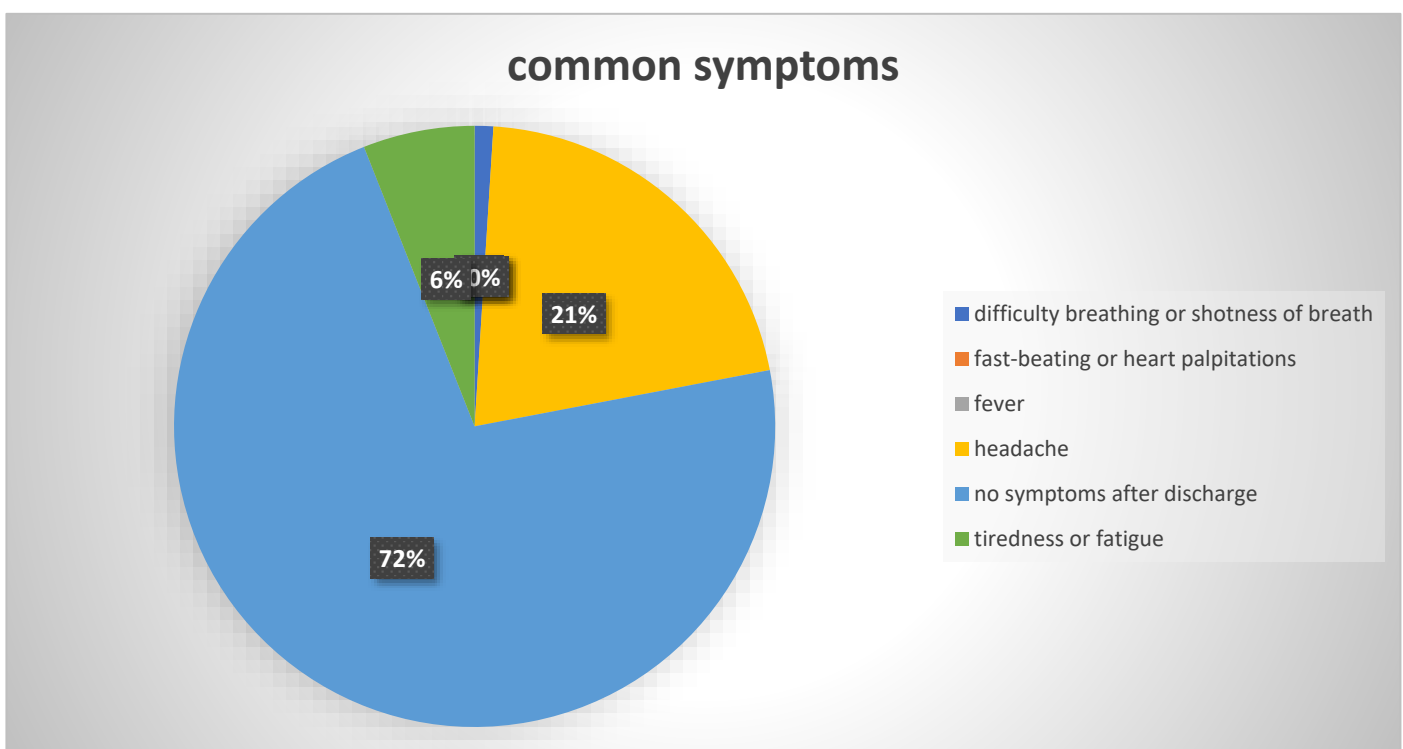
1. Difficulty or shortness of breath
2. Fast beating or heart palpitations
3. Fever
4. Headache
5. no symptoms after discharge
6. tiredness or fatigue.

In files of those patients, we checked laboratory reports d- dimer, HRCT findings, C-T scan, wards of the patients at the days of discharge following from their admission time whether patient was discharged from ICU, HDU, MICU or from general ward.

- The demographic characteristics of patients are belowed in age group categorization table, the median age of the enrolled participants is 55, with 67% are male and 33% are female. The foremost common comorbidity is hypertension (45 patients, 19%), followed by diabetes (34 patients, 14%), and disorder (22 patients, 9%).

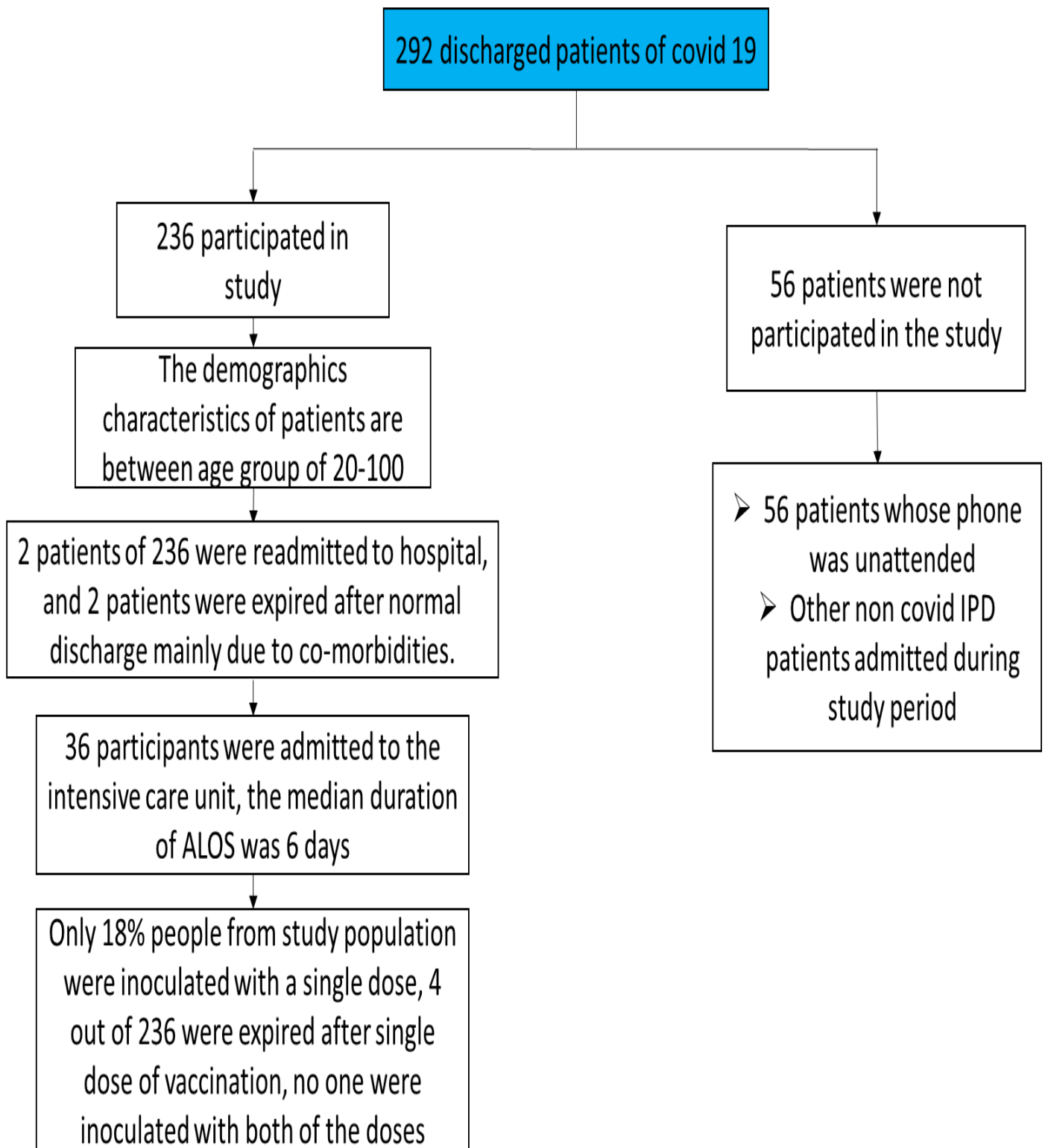
- 36 participants (15%) were in the (ICU). The median duration of average length of hospital stay was 6 days (0–20) days, where minimum day of stay was 0 and maximum day of stay was 20.

Common symptoms of post covid: -



- In this chart of common symptoms of post covid 72 % participants had no symptoms after discharge, 21 % have felt headache, 0 % have fast- beating or heart palpitations, only 6 % of population have tiredness or fatigue.

Flow chart of patient with covid 19



SUGGESTION

From this study i need to suggest that, as we all know Immunization saves countless lives from many of the years in world like measles, inactivated polio vaccine, hepatitis b and many more.

- So also take vaccination of covid as soon as possible as there's very less chances of mortality after inoculation.
- And take timely follow-up from doctors even after the discharge from hospital as there's chances of post covid symptoms after normal discharge.

References

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