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Age groups affected by Covid-19 virus in India: An observational study

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Abstract

Aim: To find out the difference in the affected age group by COVID-19 in India compare to the other countries of the world.

Objectives: Difference of the affected age group by COVID -19 in INDIA, South Korea, Italy and USA till 5th April by taking the records from the authentic sites.

Materials and Methods: It was an observational study conducted for a period of 2 months and five days. All the records from the CDC (Center for Disease Control and Prevention) and who were taken to observe the variation among the age groups affected by the covid -19 and all the records were compared to find out the variation in the affected age group. Different statistical results were taken for this comparison.

Results: By this observational study it was found that the most age group affected in India was 30-40 years compare to the other countries were affected age group was in south Korea 20-29, Italy 70-79 and USA 85 and more.

Conclusion: Graph of India was different from rest of the countries that too is because of the more test done in the age group of 20-40.

Keywords: 2019-nCoV, SARS-CoV-2, COVID-19

Introduction

City namely Wuhan in the china of 11 million people province is the source of pandemic of 2020. It was on December 31 2019 China gave the notification to WHO of occurrence of some unusual infection in the central Hubei province. It was assumed that there may be the association between the Huanan Seafood Wholesale Market, which was shut down the following day.

Same condition was found in the china in 2002-2003 of occurrence of virus causing severe acute respiratory (SARS), called SARS-Cov-2. This virus was responsible for 770 deaths. It was 61 year old man who was the first victim of covid 19 in china with association of purchased some seafood from wholesale market. He died of this infection 2 days later. Moreover within weeks outbreak ballooned the world and forms this virus as pandemic disease of mankind. Covid 19 infects all age groups but certain age groups are more susceptible to the infection.

According to the WHO report two groups are more susceptible to the infection one older people i.e. >60 years of age and other group those with some systemic disease e.g cvs, carcinoma or chronic respiratory disease.

But in India scenario is different regarding the affected age group which is discussed in this article

Brief description of the disease caused By Covid-19

Suspect case

A. Patient with acute respiratory illness (fever and at least one sign/symptom of respiratory disease (e.g., cough, shortness of breath), AND with no other etiology that fully explains the clinical presentation AND a history of travel to or residence in a country/area or territory reporting local transmission (See situation report) of COVID-19 disease during the 14 days prior to symptom onset.

OR

B. A patient with any acute respiratory illness AND having been in contact with a confirmed or probable COVID-19 case (see definition of contact) in the last 14 days prior to onset of symptoms.

OR

C. “A patient with severe acute respiratory infection (fever and at least one sign/symptom of respiratory disease (e.g., cough, shortness breath) AND requiring hospitalization AND with no other etiology that fully explains the clinical presentation”.

Probable case

“A suspect case for whom testing for COVID-19 is inconclusive. Inconclusive being the result of the test reported by the laboratory”

Confirmed case

A person with laboratory confirmation of COVID-19 infection, irrespective of clinical signs and symptoms. Information regarding laboratory guidance can be found”

Key advice for these two groups by who

	When you have visitors to your home, exchange “1 metre greetings”, like a wave, nod, or bow.
	Ask visitors and those you live with to wash their hands.
	Regularly clean and disinfect surfaces in your home, especially areas that people touch a lot.
	If someone you live with isn’t feeling well (especially with possible COVID-19 symptoms), limit your shared spaces.
	If you become ill with symptoms of COVID-19, contact your healthcare provider by telephone before visiting your healthcare facility.
	Make a plan in preparation for an outbreak of COVID-19 in your community.
	When you go out in public, follow the same preventative guidelines as you would at home.
	Stay up to date using information from reliable sources.

Materials and Methods: It was an observational study conducted for a period of 2 months and five days. All the records from the CDC (center for disease control) and who were taken to observe the variation among the age groups affected by the covid -19 and all the records were compared to find out the variation in the affected age group. Different statistical results were taken for this comparison. Difference of the affected age group by COVID -19 in INDIA, South Korea, Italy and USA till 5th April by taking the records from the authentic sites.

Dicussion

It is from the German federal institute that research on their people suggests that young people may be more of Carriers of covid 19 as compared to the older age group and medically compromised group that is the reason more of the cases are found in the in this very age group. Moreover in south Korea and USA testing is done for the symptomatic and critically ill patients that leads to the data collection of the confirmed cases in the older age groups and large number of the young adults who are asymptomatic carriers remain untested. Similarly the same finding is found in the other European countries. But the statistical data in India are different from the rest of the world that is the number of the confirmed cases are more in the age group of 20-40 years.

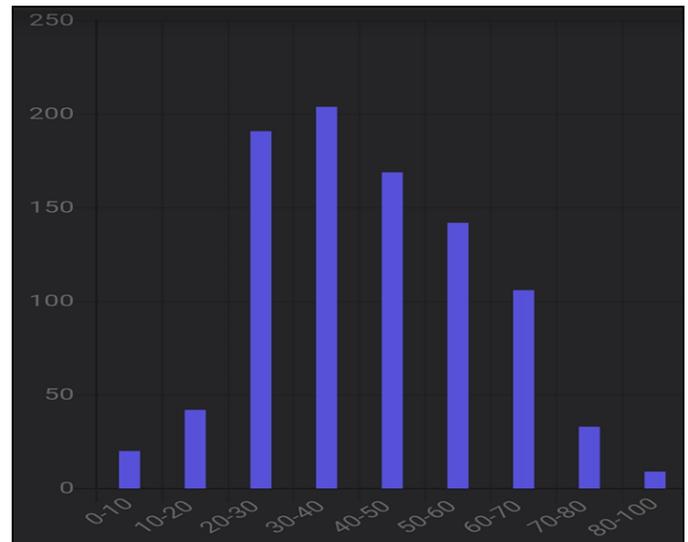


Fig 1: Graphical data of covid-19 cases in India till 5th april.

Similarly in the south Korea as that of INDIA more cases are found in the 20-29 age group as compared to the older age group, on contrary to that in the italy more cases are confirmed in the70-79 age group.

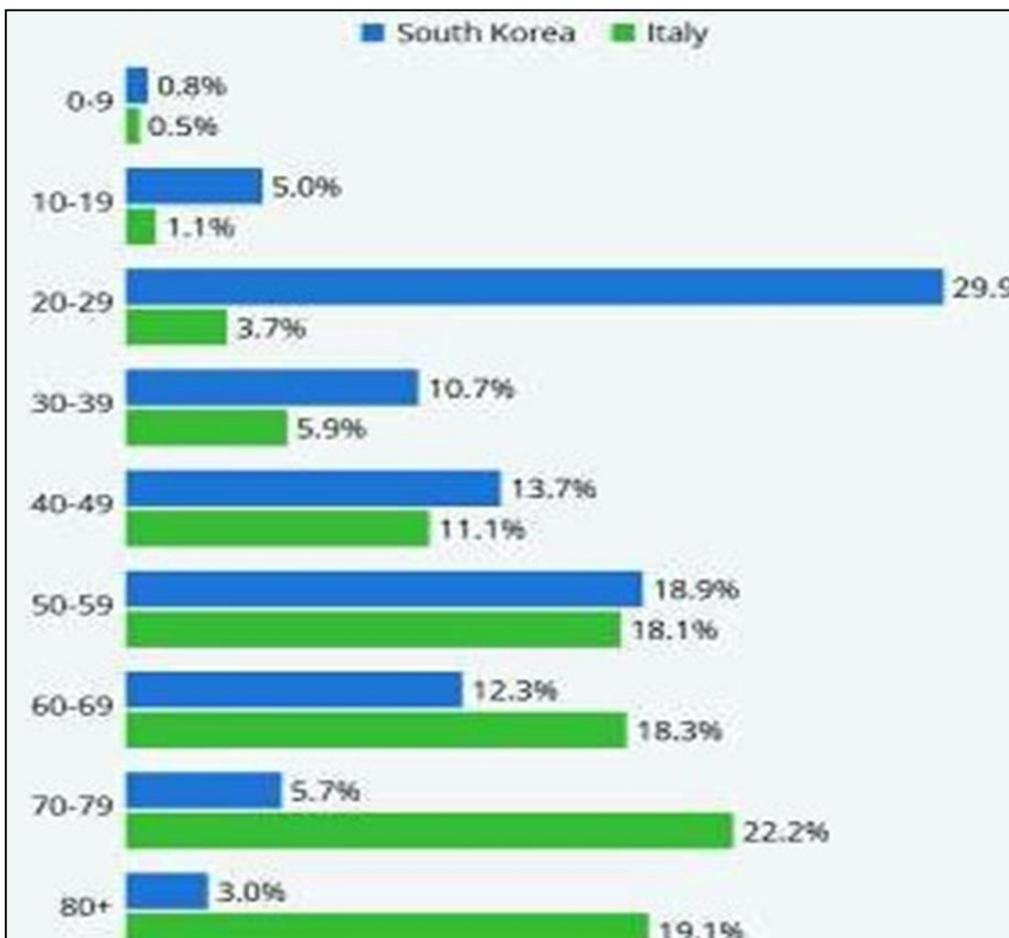
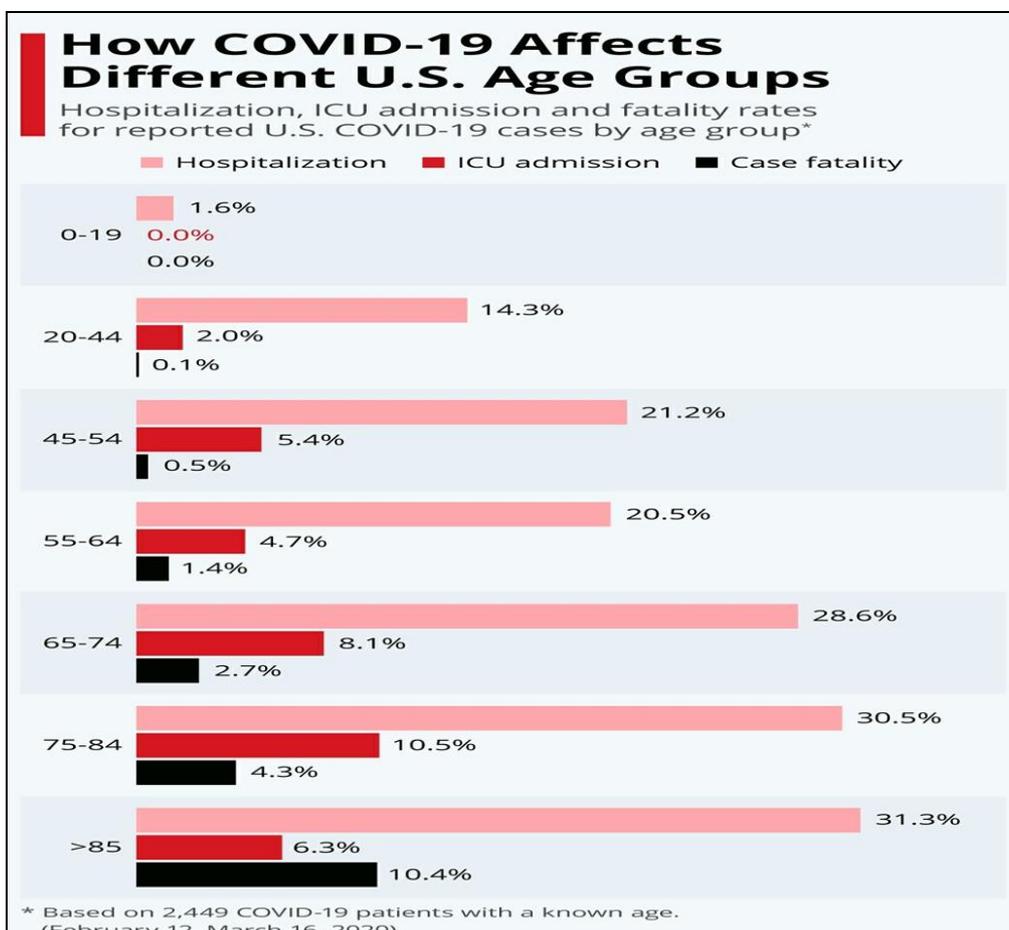


Fig 2: Graphical data of covid-19 cases in south korea and italy till 5th april



In USA more cases are confirmed in the age group greater than 85 years of age

Fig 3: Graphical data of covid-19 cases in USA till 5th April

Conclusion

As WHO has suggested that COVID -19 affects every age group but the graph of India is different from rest of the countries that too is because of the more test done in the age group of 20-40. Moreover by the graph of Italy and USA more cases are confirmed in the old age group.

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