



Vaccination: An Ultimate Solution Against Coronavirus-19

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Abstract

All over World, Covid-19 has not only caused infections and deaths among people but it took away livelihood, business and GDP growth. In order to protect peoples lives from virus, many times complete lockdown introduced in different countries. In India, number of infections and death increased fast in second waves. Vaccination of all people is the only solution against this virus. But production of vaccine is low and it cannot be increased in short run. Central government must allow vaccine import and more production through pharmacy companies. More private sector involvement in vaccine production and distribution will help to reduce the vaccination to all in short period against corona virus.

Keywords: Covid-19; Vaccination; Wuhan

Introduction

Corona virus first found during December-2019. A person was infected from Wuhan seafood market, China. The possibility of corona virus to human could be from bat. The symptoms of virus are fever, cough, shortness of breath [1]. Few research papers shown that the virus could be China's man made virus and it is used as bio-weapon against countries. It is an artificially manipulation into an emerging disease virus. China is very much reluctant in providing information about virus since its inception. It never allowed proper investigation of team sent by WHO to investigate the origin of Covid-19. WHO team returned back with out proper investigation and finding about emergence of Covid 2019. China denied access to Wuhan Institute of Virology. If the virus would have transmitted from seafood market then there was in interest of China to cooperate the WHO team and any other investigation agency. But we have opposite picture in reality. China is not showing real statistics about the total number of cases affected and deaths by Covid 2019. Immediately after outbreak of virus, China's administration stopped travel of people from Wuhan to the rest of China.

But international travelling allowed from Wuhan city. It purposely done to spread the virus in different countries. Therefore corona virus spread exponentially in different countries. China never suggested proper scientific method of treatment against Covid 2019. It could be the biological weapon to destabilize economies. Every country is protecting people through complete lockdown, development of vaccine and vaccination to all its people. Since December 2019, around 3331296 people died due to corona virus all over world. It is a significant loss and damage took place to the countries and economies. People those had corona-virus infection were 160330732. The recovered cases were 139063938 all over world. Every country and region in world is affected economically by the Covid 2019.

Table shows that U.S.A is most affected country by corona-virus as compare to other countries. Total cases of corona virus were found as 33550115. Total deaths were 596946. As per data, the death per million population was 1794. They are significant and higher as compare to other countries. India had 23,340,426 cases

N.	Country, Other	Total Cases	Total Deaths	Total Recovered	Tot Cases/1M pop	Death/1M pop	Total Tests	Tests/1M pop
	World	160,330,732	3,331,296	139,063,938	20,569	427.4		
1	USA	33,550,115	596,946	26,558,138	100,851	1,794	460,400,486	1,383,957
2	India	23,340,426	254,225	19,376,650	16,772	183	305,600,187	219,597
3	Brazil	15,285,048	425,711	13,847,191	71,473	1,991	46,834,128	218,998
4	France	5,800,170	106,935	4,951,745	88,691	1,635	79,617,249	1,217,432
5	Turkey	5,059,433	43,589	4,766,124	59,441	512	49,830,456	585,433
6	Russia	4,896,842	113,976	4,509,915	33,543	781	131,900,000	903,497
7	UK	4,439,691	127,629	4,253,367	65,105	1,872	166,942,214	2,448,108
8	Italy	4,123,230	123,282	3,636,089	68,282	2,042	61,513,452	1,018,682
9	Spain	3,586,333	79,100	3,283,915	76,680	1,691	47,213,067	1,009,466
10	Germany	3,544,315	85,757	3,220,300	42,187	1,021	56,836,969	676,516

Table 1: Corona virus cases and deaths in countries.

Source: World meter.info/Corona virus.

of corona virus found till today. The second wave of corona virus was very severe. The corona virus cases and infections increased very fast in short period. Death were reported as 254,225. Deaths per million in India were 183. In second wave of corona virus, number of deaths increased very fast in India. Total corona virus test in India was 305600187. In Brazil, the corona virus cases were 15,285,048. Total deaths reported as 425,711. Per million death were 1991. Total deaths are higher in Brazil as compare to India. Corona virus cases in Italy were 4,123,230. The deaths due to corona-virus were 123,282. Deaths per million was 2042. Italy has very high reported deaths per million population. As compare with other countries, Italy has very high deaths due to Corona virus.

Corona virus spread in India

The Corona virus has spread in 700 districts in India. The major cities such as Mumbai, Pune, Bangalore, Delhi, infection rate is very high. Currently, the mucormycosis cases are increasing fast. Such black fungus is detected among COVID-19 patients. The corona virus infections found more in rural areas as compare to urban area. The infection rate is increasing very fast in the rural areas of Uttar Pradesh, Madhya Pradesh, Rajasthan, Bihar, Tamilnadu, Punjab, Haryana and West Bengal. Health care facilities in rural area are very much limited. There is no either infrastructural facilities or health care professionals. Every day many people died due to virus and dead bodied burn with out proper death certificate and arrangements. Now dead bodies of corona patients found in Ganga

and Yamuna river. Currently, more people in rural area must be tested on continuous basis. The health care professionals and infrastructure need to increase. But time is very short and virus is killing more people.

Due to corona virus, there was huge loss as deaths, economic impact to economy and people. Many people have lost their jobs. Business community affected a lot due to strict lockdown in country. Many migrants went their villages due to lack of work during lockdown. Corona virus-19 does not recognize any boundary, wall, rural urban divide. It entered equally in all nations with significant incidence. The death toll is rising continuously all over world. The virus is getting spread with its different mutations now. Such mutations are very dangerous and kills many people within short period of time. In every country, people scared for their health, income, normal activities. Vaccine is most important against Covid-19. Vaccines are important preventive medicines and are a critical component of a nation’s health security [2]. Every individual must get vaccination irrespective of ethnicity, origin, nationality, religion, gender, language or social status. His/Her ability to pay for vaccination should not matter at any point. Vaccination is life and deaths issue for every individual in current situation.

Vaccine production

The vaccination to every individual is very slow due to production, distribution, registration process and local management. The

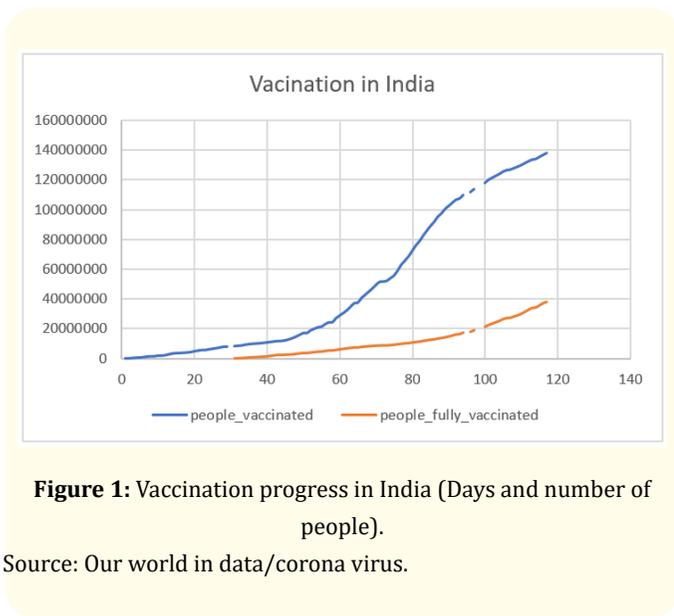
capabilities, cost and standard are important in vaccination production. Vaccine production is a long term assignment with proper licence. The plants need to be built to scale, appoint staff with expertise, apply for licence, perform trials of vaccine. Serum institute of India took five decades to become dominant firm in world’s vaccine market. It is largest company as compare to number of vaccine doses produced as compare to other companies. Vaccine production required standard and they are already given by WHO. Relaxation in rules may cost life of people and serious future consequences to life of people. At present, in order to boost vaccine production, there is need of safe and planned production, capacities, safe guard in supply chain, increase supply from different countries.

At present, many health professionals have not received two doses of vaccine. They must be given priority in providing two doses. Other people working in essentials services must be priority in vaccination on urgent basis. National vaccination should be 40 lakh per day to cover many people in short time. But it is less than 20 lakh per day. It will take more time to vaccinate all people in country. Every individual is not using mobile. Registration must be done on CoWIN app. But not every member has android phone with internet connectivity. How these people would be given vaccination without registration through app?. There are many disbelief among people for not having Covid-19. They are cutting chicken and goat to God, spray their blood in village, taking dung and milk, curd bath etc. Many urban people are laughing with such activities and belief. But overall management of vaccine is important due to shortage of vaccine with number of technical issues in country.

As per Ministry of Health and Family Welfare data [3], in India, 141 million means 10 per cent of population have received at least one vaccine dose. Total 40 million people are fully vaccinated. In India, Vaccine hesitancy is replaced by very short supply as it is opened for 18-44 age group. Every person is finding difficulty in getting vaccinated. There are nearly 600 million people in 18-44 age group. Currently 940 million people are eligible for vaccine. But total production of vaccine in India is 70-80 million doses per month. Government is importing from other countries but supply is short. Most of the decision taken for vaccination are political decisions. But vaccine production and distribution is technical issue. Central government should have done proper vaccination management. Vaccine inequality will be produced as people without smartphone and internet may not get vaccine for long while. It will affect on their standard of living.

Privatization of vaccination

Every individual is affected by lockdown. Unnecessarily, they fear for illness and death. It has affected on creativity, investment, employment and growth. In order to control pandemic, it is suggested to follow social distancing, wear mask and use sanitizer. Vaccination to all will bring the normalcy in activities. Government has given the freedom to states, firms and individuals to import vaccines. It will bring the accessibility of vaccine with competitive price to them. It will provide two things. First, price of vaccine will be competitive. It will help to boost production much earlier than expected. This is because it will increase domestic and global vaccine suppliers ability and willingness to provide vaccine. State can use it’s power to reduce the prices of vaccine. There is no interference required by government in vaccine production and distribution. Government must act as regulator and not distributor of vaccine. There will be invisible hand which will work for vaccination to all people. Demand and supply will get automatically adjusted. Rich people can pay higher price for vaccine. Therefore they must pay high price. Market price for vaccine will solve the issue of raw materials, cold storage, delivery etc. Current price for vaccine is different for central and state government, hospitals and individuals in India by vaccine suppliers. One vaccine’s price cannot be discriminated on the basis of buyer. It is very harmful activity for its future production. Very few companies will come ahead to produce vaccine for its population due to government’s interference in market. They have also value of time, money and efforts. Investment is also required for machinery. Vaccine sale at lower prices will reduce their profits and it will further reduce their long term capacity of building organization. Government can solve the issue of



equity and welfare issue in vaccine distribution through Vouchers. There is vulnerable poor population such as rural, tribal, scheduled caste, super spreaders. Such population must be given the vouchers. There are different programs available under Pradhan Mantri Jan Arogya Yojana, Ministry of Health and Family Welfare, Ministry of Panchayat Raj, Employee Insurance Scheme. Reserve bank has surplus funds and foreign exchange reserves which can be used for vouchers. Every state and union territory has different programs for welfare of people under health and welfare department. Center, State, Municipal corporations can budget certain amount for vaccination of poor people. But the vaccination to all people must be done urgently on public private partnership basis.

Conclusion

Corona virus-19 has impacted on livelihood of people, business and economies all over world. Since December 2019, many people died and infected due to this virus. It is not only infect people now but cases death many people. Therefore it is called as deadly virus with its mutations. The crisis due to the COVID-19 pandemic in India and elsewhere has required putting enormous amounts of resources in prevention, control and treatment, on the one hand, and social welfare and livelihood programme on the other [4]. Vaccination with two doses to all individual is the only solution against this virus and infections, death. Vaccination is not possible in short period of time because of lower production capacity of vaccine making companies. Central government must plan to vaccinate all people as early as possible and bring the normality in the economic activities. The policies such as promote pharmacy companies to produce more vaccine, import of vaccine and vouchers for poor people for vaccination. Central government must open vaccination to private sector.

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