



Indonesia and China Collaboration for Decreasing the Number of Covid 19 Spreading

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Abstract. This Covid 19 pandemic has big impact for every country. It effect on every sector on vitality of the country, such as economic, politic, world connection, etc. If every country want to revive their conditions. They must work together and rise from adversity. Just like Indonesia and China. Indonesia collaborate with china for increasing productivity of the covid 19 vaccine. With hope when everyone is getting vaccinated, the spread of the virus is also decreasing or maybe stop.

Keywords: Vaccine · Covid 19 · Indonesia and China

1 Introduction

Chinese President Xi Jinping stated that China and Indonesia would continue their vaccination collaboration and work together to combat “unequal access of countries to vaccines.” Tuesday, during a phone call with President Joko Widodo, Xi said that trade and investment relations between China and Indonesia had risen counterintuitively in the wake of the Covid-19 outbreak, demonstrating strong resilience and tremendous potential.

In order to obtain a Covid-19 vaccine, Indonesia is working with China. The visit of Minister of Foreign Affairs RetnoMarsudi, Minister of Trade Muhammad Lutfi, and Minister of SOEs Erick Thohir on April 1–3 demonstrated Indonesia’s commitment to fostering collaboration. Potential is earned by Indonesia to make connection with china in this Vaccine project.

The ministers met with Wang Yi, the foreign minister, and the governor of the Fujian Province when they were in Beijing. The ministers further had separate conferences with the leaders of each ministry in China. China specifically mentioned how vaccine cooperation has always advanced more quickly between the two nations. Indonesia is the priority than cooperation between China and other nations in the region [1].

2 Discussion

2.1 Kinds of Vaccine that Developed

To support Indonesia's national vaccination program, SinoVac and SinoPharm China supplied 16 batches to Indonesia totaling 6.4 million ready-to-use vaccines and 115.5 million semi-finished vaccines. With its Indonesian partners, Cansino is debating buying the vaccine. More than 4,000 participants have already taken part in Anhui ZhifeiLongcom's brand-new phase three clinical trial in Indonesia, he added [2].

As previously stated, COVAX will begin receiving vaccines from China's COVID-19 vaccine this month to help combat the epidemic in developing nations, according to Ambassador Xiao Qian. The vaccine which developed, and as result between collaborative work is Sinovac and Sinopharm. Now Indonesia bring so many stock of this vaccine in indonesia. Majority people in Indonesia is vaccinated by Sinovac [1].

2.2 How Effective is Sinovac Vaccine

128,290 healthcare professionals in the DKI Jakarta region will get the Sinovac corona virus vaccination between January 13 and March 18, 2021. The findings demonstrate that two full vaccine doses are thought to be useful in lowering the incidence of COVID-19.

The biotechnology company that makes vaccines from China, Sinovac claims that the third injection of its Covid-19 vaccine, Coronavac, can increase the body's antibody response up to ten times in a week. Citing the Global Times, this was obtained from a second phase clinical trial in a three-dose injectable study. In the study, Sinovac placed a third injection at an interval of about three to six months. After the test, the antibody response in their bodies increased tenfold in a week and twenty-fold in 15 days [4].

After completing two injections, our body has already produced an immune memory. As for when the third injection will be needed, please give researchers more time to study it. Meanwhile, Sinovac is still working with the Chinese Center for Disease Control and Prevention to test booster vaccines. They are still exploring when is the right time to give the third dose [1, 6].

2.3 Benefit of the Sinovac Vaccine

- *Stimulates The Immune system*
Injectable vaccines made of various biological substances and fragments of attenuated viruses will encourage the development of an individual's immune system [2].
- *Reducing the virus transmission risk*
Bringing Down the Transmission Risk After receiving the vaccination injection, a person's body will activate antibodies to teach and detect the weakened virus. As a result, the chance of exposure will be reduced and the body will be exposed to the virus [3].
- *Reducing the effects of the virus*
If a person's immune system is compromised and they are exposed to a virus with an immune condition that has detected it, the virus's effects or symptoms will be lessened [3]

- *Achieving Herd Immunity*

The Herd Immunity will be attained as more people in a region or nation receive vaccinations, reducing the danger of the Covid-19 virus being exposed and mutating. It is hoped that the public would become more aware of the value of vaccination in the middle of the current pandemic thanks to the information provided above [5].

2.4 The Result of Vaccination in Indonesia

Today, the daily confirmed cases again showed a significant decline, even lower than the number of cases at the end of January 2022. 7,951 confirmed cases were reported today, down from 9,528 instances yesterday. In comparison to the previous week, there was a 50.33 percent drop in daily confirmed cases over the preceding week. Today's fall in confirmed cases was also accompanied by a lower hospital occupancy rate (BOR), which was recorded at 15% as opposed to yesterday's BOR of 16%. The public should really be aware that even though the antibodies produced are high after getting a complete vaccination plus a booster, the possibility of being infected with COVID-19 still exists. It's just that the risk of severe symptoms and death from COVID-19 is reduced [5].

Accelerating vaccination increases government surveillance. As of November 17, 2021, Indonesia had distributed 219.48 million vaccine doses, placing it fifth in the world for vaccination dosage realization. In March 2022, vaccination can reach 70% of the population and help the achievement of a more ideal transition to coexistence with the endemic if the assumption of vaccination speed is approximately 1.5 million doses per day [1].

3 Conclusion

Indonesia and China collaboration can be considered as successful collaboration. This collaboration of vaccine success for making vaccination of Indonesian people get protected with the vaccine. It effects on economical rotation of Indonesia, at the covid moment, Indonesia was on the bad condition. All sector such as infrastructure, economic, politic, everything got distracted by the virus. Now due to the vaccination, the virus spread is significant drop and people can do their activity normally. All people now can get vaccinated with no cost needed. This because Indonesia and China work together for developing and spreading this vaccine.

References

1. Anwar, F.: How effective is sinovac Vaccine fighting covid variant in Indonesia. DetikHealyh, Jakarta (2021).
2. Safitrieriza. Effectivity of sinovac against corona. Ministry of health, Jakarta (2022).
3. Kemenkes. 4 positive effect of sinovac. Jakarta (2020).
4. Tommy, S.: 3rd injection of sinovac feels like superhero. CNBC Indonesia, Jakarta (2021).
5. Tarmizi M. Epid, S. N.: Healthy of my country. Ministry of health, Jakarta (2021).
6. Qian, X.: Virtual Press Convention of China and Indonesia. Beijing (2021).

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