

Overview of Covid - 19 Vaccination Coverage in the Working Area of Karawang Health Center Sukabumi Regency Period July Year 2022

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ARTICLE INFO

Keywords: Covid-19
Vaccine, Covid-19

Received : 3 March

Revised : 18 March

Accepted: 20 April

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ABSTRACT

High and even coverage of Covid-19 vaccination is the key to success. If the vaccination coverage is high and evenly distributed, herd immunity can be formed, and cross-protection can be created. Cross-protection is a condition in which a person still gets the benefits of protection against the risk of contracting a disease even though he is not vaccinated because he is in a community where the majority have already been vaccinated. As a result, it will reduce the virus's spread, break the transmission chain, and ultimately stop this disease

INTRODUCTION

Covid-19 is a disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-Cov-2) (Yuan, Z., Xiao, Y., Dai, Z., Huang, J., Zhang, Z., & Chen, 2020). As of today, there have been around 529 million cases of Covid-19 patients around the world on May 31, 2022, and 6.29 million people died (World Health Organization, 2022d). The death of Covid-19 sufferers is caused by several factors besides pneumonia (World Health Organization, 2020).

The cause of death for COVID-19 sufferers other than pneumonia is comorbidities, which include coronary artery disease for five years, type 2 diabetes for 14 years, and chronic pulmonary obstructive disease for eight years. On May 31, 2022, the total number of positive cases of Covid-19 was 6.05 million people died, a total of 157 thousand (Covid-19 Handling Task Force, 2022).

Covid-19 data as of May 30, 2022, in West Java Province, is a total of 1,106,581 confirmed Covid-19 people and 15,822 deaths (Pikobar.jabarprov.go.id.2021). In Sukabumi Regency, there were 15,966 confirmed cases of Covid-19 as of May 30, 2021, and a total of 356 people died. Meanwhile, in the Sukabumi sub-district, there were 115 positive cases, and seven people died. (Karawang Health Center, 2020)

Based on data on vaccination coverage obtained from the Committee for Handling Corona Virus Disease 2019 (Covid-19) and National Economic Recovery (KPCPEN) until April 27, 2022, the total vaccination coverage is 400.5 million injections from the target of 450 million. In detail, the coverage of dose 1 reaches 199 million or 95.63%. Coverage for dose 2 reached 164.5 million (79%), and coverage for dose 3 reached 36.8 million (17.68%).

The elderly group (elderly) over 60 years is a priority for the government to be vaccinated. Because the elderly are the most vulnerable group to exposure and have the highest risk of death and illness from COVID-19. Currently, the first dose of elderly vaccination reaches 17.5 million (81.66%), the second dose reaches 13.9 million (64.74%), and the third dose reaches 3.7 million (17.22%).

Several strategies have been implemented to accelerate vaccination for older people by continuing to open vaccination centers throughout Indonesia. The vaccination center can make getting vaccinated at the nearest residence easier for older people. (Ministry of Health, 2022)

Health workers are expected to be able to make communication, information, and education (IEC) efforts to the public and monitor the vaccination status of each target in their work area to ensure that each target gets the complete COVID-19 vaccination as recommended. (Ministry of Health, 2021).

Data from the Sukabumi Regency Covid-19 Handling Task Force stated that the number of residents vaccinated with the first dose based on data as of December 25, 2021, was 1,517,503, or 71.02 percent. Meanwhile, for dose two, it reached 704,242 or 32.96 percent. This is based on the target number of vaccinations of 2,136,590 people.

Data from the Karawang Health Center is based on cumulative data until June 15, 2022, at 18:00 WIB. The vaccine target for children is 5038; all target categories are 40,590; the vaccine achievement for children at dose 1 is 99.03%,

and dose 2 is 81.44%. While the achievement for all categories of dose 1 was 87.97%, dose 2 was 74.66%, and dose 3 was 39.72%. From the report's results above, the Karawang Health Center, Sukabumi District's work area has yet to reach 100%.

Human perception will later influence his attitude toward the vaccine itself. Thus, programs for protecting against and controlling Covid-19 will fail, especially in the red zone areas, including Sukabumi, West Java Province. Thus, providing the right information to the public about the Covid-19 vaccine is important. The government has carried out various campaigns through various media such as television, radio, seminars, and social media. The campaigns carried out by the government for the community are mostly one-way, namely, using a public common.

THEORETICAL REVIEW

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METHODOLOGY

The research design used in this study is a descriptive research method. Techniquetakingthe sample in this research is total sampling. The analysis in this study uses the frequency distribution.

RESULTS

Univariate Analysis

1. Overview of Covid-19 Vaccination Coverage in the Working Area of the Karawang Community Health Center, Sukabumi Regency for the July 2022 period based on the Adult Age Target

Table 1. Frequency Distribution of Covid-19 Vaccination Coverage Based on the Target Age of Adults in the Work Area of the Karawang Community Health Center, Sukabumi Regency, July 17, 2022

Vaccine Dosage	Frequency	Percentage (%)
Dose 1	34,456	84.89%
Dose 2	30,047	74.03%
Boosters	18,141	44.69%
Target number of Adults 40,590		

Karawang Community Health Center data, July 2022

Based on table 1, the coverage data for covid-19 vaccination based on the target adult age is for dose 1 the number is 34,456 (84.89%), dose 2 is 30,047 (74.03%) and booster vaccine coverage is 18,141 (44.69%).

2. Overview of Covid-19 Vaccination Coverage in the Working Area of the Karawang Health Center, Sukabumi Regency for the July 2022 period based on the Target Age of Children

Table 2. Frequency Distribution of Covid-19 Vaccination Coverage Based on Target Age of Children in the Work Area of the Karawang Community Health Center, Sukabumi Regency, July 17, 2022

Vaccine Dosage	Frequency	Percentage (%)
Dose 1	4,720	93.69%
Dose 2	4,067	80.73 %
The target number of children's age is 5,038		

Karawang Community Health Center data, July 2022

Based on table 2, the coverage data for covid-19 vaccination based on the target adult age were for dose 1, there were 4,720 (93.69%) and for dose 2, there were 4,067 people (80.73%).

DISCUSSION

1. Scope Covid-19 Vaccination in the Working Area of the Karawang Community Health Center, Sukabumi Regency for the July 2022 period based on the Adult Age Target

Based on Table Data 1, the coverage of Covid-19 vaccination based on the adult target is for dose 1; there are 34,456 (84.89%). For dose 2, there are 30,047 people (74.03%), and booster vaccine coverage is 18,141 (44.69%).

Vaccine coverage nationally as of July 11, 2022, for the vulnerable and general population category reached 81.89% for dose 2 67.94% and dose three boosters (26.78%). Compared nationally, the vaccination coverage for the adult age category in the Karawang Health Center working area is above the national coverage.

The COVID-19 vaccine protects not only those vaccinated but also those who are not vaccinated by reducing the spread of the disease in the population. Developing a safe and effective vaccine is critical to stopping the future spread of the disease. (Sari IP, Sriwidodo S, 2020) Clinical trials of the Covid-19 vaccine for the general public are limited to 18 and over, the age group most exposed to Covid-19.

Regarding the application of vaccination, the fact is that not everyone agrees/accepts getting vaccinated. Based on the WHO and UNICEF Indonesia Health Survey conducted in November 2020 with more than 112,000 respondents, around 65% said they were willing to accept the Covid-19 vaccine if provided by the Government, while eight percent refused. The remaining 27% doubted the Government's plan to distribute the Covid-19 vaccine. This group is important to drive the success of the vaccination program. This situation needs to be understood carefully because people have different levels of trust in the Covid-19 vaccine due to limited information regarding the type of vaccine, when the vaccine will be available, and its safety profile; furthermore, because ITAGI, UNICEF, WHO, and the Ministry of Health support this survey. The survey shows the highest vaccine acceptance rates in Papua, Java, and Kalimantan islands. Acceptance levels in several Sumatra, Sulawesi, and Maluku provinces are lower. The Province of West Papua has the highest acceptance rate (74%) compared to all other provinces, while the Provinces of Aceh and West Sumatra have the lowest, 46% and 47%. (13) The Indonesian Government is targeting more than 180 million people, equivalent to 70% of the total population, to be vaccinated to increase public immunity against the Covid-19 virus in the next 15 months. As of July 2021, more than 46 million (22.4%) people have been injected with the first dose of the vaccine, and up to 20 million (9.6%) people have been injected with the second dose of the vaccine. (Ministry of Health, 2021) Based on the survey, the highest vaccine acceptance rates were seen in the provinces on the islands of Papua, Java, and Kalimantan. Acceptance levels in several Sumatra, Sulawesi, and Maluku provinces are lower. The Province of West Papua has the highest acceptance rate (74%) compared to all other provinces, while the Provinces of Aceh and West Sumatra have the lowest, 46% and 47%. (13) The Indonesian Government is targeting more than 180 million people, equivalent to 70% of the total population, to be vaccinated to increase public immunity against the Covid-19 virus in the next 15 months. As of July 2021, more than 46 million (22.4%) people have been injected with the first dose of the vaccine, and up to 20 million (9.6%) people have been injected with the second dose of the vaccine. (Ministry of Health, 2021)

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2. Covid-19 Vaccination Coverage in the Work Area of the Karawang Public Health Center, Sukabumi Regency for the July 2022 period based on the Target Age of Children

Based on Table 2, the coverage of the Covid-19 vaccination based on the target for adult age is for dose 1, there are 4,720 (93.69%), and for dose 2, there are 4,067 people (80.73%).

Vaccination coverage nationally as of July 11, 2022 (Ministry of Health, 2022) for the category of children aged 6-11 years the achievement of dose 1 is 79.37% for dose 2 is 65.57% for ages 12-17 years, 95.41%, dose two has coverage of 82.47% Compared to nationally the coverage of vaccination for the child age category in the working area of the Karawang Health Center is according to national coverage.

On July 1, 2021, the government issued a new policy to implement vaccination for children aged 12-17 years. Vaccination for children aged 12-17 years is carried out after the issuance of permits for emergency use by BPOM and the Indonesian Technical Advisory Group on Immunization (ITAGI). They range from 0.3 ml to 0.5 ml. (Ministry of Health, 2021). Meanwhile, the COVID-19 vaccination for children aged 6 to 11 years will begin Tuesday, December 14, 2021. The target number of vaccinations has reached 26.5 million children based on 2020 population census data.

Vaccination is carried out to reduce the severe impact of infection with a virus. The body will recognize a virus that comes from a vaccine so that when infected later, the body can respond quickly by providing immunity from the effects of the virus. The virus also doesn't look at age because it can attack adults and children.

Likewise, COVID-19 is still endemic in Indonesia. Vaccinations have continued to be intensified from dose one to Booster, and now the COVID-19 vaccination has even begun to be intensified for children. This is because, based on data from the Ministry of Health, **until January 20, 2022, 1-2** out of 10 people who contracted COVID-19 in Indonesia were children. These data show that the risk of transmission of COVID-19 can occur in all age groups without exception, including children. Please note that humans have the right to live healthy lives, both in children and adults. Therefore, children must also be vaccinated (Ministry of Health, 2022).

CONCLUSIONS AND RECOMMENDATIONS

Based on the description and analysis that has been put forward in the previous chapters, the results of this study can be concluded as follows:

1. Covid-19 vaccination coverage based on the adult age target was for dose 1 the number was 34,456 (84.89%), dose 2 was 30,047 people (74.03%) and booster vaccine coverage was 18,141 (44.69%).
2. Covid-19 vaccination coverage based on the adult age target is for dose 1 the number is 4,720 (93.69%) and dose 2 is 4,067 people (80.73%)

FURTHER STUDY

It is hoped that future researchers will be able to examine the relationship of the sub-variables and various factors that affect the coverage of Covid-19 vaccination.

ACKNOWLEDGMENT

It is hoped that this can add references and complete reading sources, especially regarding the Covid-19 vaccination.

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