Where is the Third E in Controlling Coronavirus Disease-19 in Indonesia? A Mini Review

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Abstract

Coronavirus disease (COVID-19) continues to attract global attention and is the most serious health problem today. Indonesia faces a very significant spike in cases in mid-2021. This may be related to inadequate enforcement before cases reach their peak. To review what has happened and what should be done in the future, this paper presents the three Es concept to be applied more consistently in efforts to control COVID-19 in Indonesia.

Introduction

At present, coronavirus disease (COVID-19) is still a problem in the world today. The WHO reported that the number of COVID-19 cases in the world reached 188,655,968 confirmed cases. Meanwhile, global deaths have been reported to have reached 4,067,517 deaths [1]. In July 2021, Indonesia has become the new epicenter of COVID-19 in the world. Within days, Indonesia reported more than 50,000 more daily cases, far more than any other country. In 4 consecutive days, the number of positive cases reported even reached 54,000 cases in 1 day [2], placing Indonesia with the highest case reports in Asia together with India [3] so that it became one of the countries in the WHO spotlight [4]. At the same time, the daily death rate is also more than 1000 people per day [2].

This condition is interesting to be discussed through this review. When many countries have taken various approaches, the condition of Indonesia needs to be a concern. Especially, when we discuss efforts to change people’s behavior. Various approaches to behavior change have been reviewed, but more holistic integration is needed. This paper reviews the enforcement approach as an alternative in the future, which has previously been proven theoretically and its application to other public health problems.

Context

The Indonesian government has carried out mass vaccinations since January 2021. As a result, as of July 18, 2021, 41 million first doses have been carried out, and 16.2 million second doses have been completed [5]. Indeed, this figure is still far from the 208 million Indonesian population targeted to receive the vaccine. Moreover, at the same time, vaccinations are also carried out in the 12–17 years age group plus booster vaccinations for health workers.

Since the beginning of the pandemic, the Indonesian government has determined that the COVID-19 control policy cannot be pursued by carrying out mass restrictions which are often referred to as lockdowns. The government chooses a “limited” diction rather than stopping all community activities.

However, overtime, this policy resulted in serious negative impacts. The community then relaxed their activities. Many people in the community ignore...
the use of masks. Not only that, often social activities are carried out without maintaining distance and even creating crowds. Markets and community activities in many places are running as usual as if without COVID-19. People are also used to making visits to public areas, tourist areas, and places to relax, which should not be done. As a result, the circulation of COVID-19 slowly crawled up and caused an explosion of cases in mid-July 2021.

The description of community activities can be seen from the pattern of community mobility before July, especially from May to June (Figure 1).

To respond to the exploding COVID-19 case, the Indonesian government immediately took action. In Java and Bali, emergency Pemberlakuan Pembatasan Kegiatan Masyarakat (PPKM) was carried out. All so-called non-essential activities are suspended. The emergency PPKM policy then expanded to 15 other areas outside Java-Bali. To prevent the situation from worsening, the government asked other countries to supply oxygen. Medical personnel worked hard to help patients because the queues of patients suddenly became long. Many patients can no longer be helped by the time they arrive at the hospital. Funeral records also rose dramatically. When cases explode, the use of technology, including tele-medicine, so that patients can be served even though they are self-isolating, is carried out as much as possible.

In the 2 weeks, since the implementation of the emergency PPKM, it appears that there has been a decline in population mobility (Figure 2) as recorded by Google Mobility. It turns out that the emergency PPKM action is a method that can stop mass mobility of the population, as is seen today.

But still, there is a big problem in citizen discipline which is far from ideal. If this continues to happen, where every time a case occurs, then mass activities are stopped, then overtime the healthcare system will collapse. It is even possible that the health sector may not revive again, even though the emergency response plan has been well prepared.

Hence, in the face of COVID-19, behavior change requires serious efforts. It must be acknowledged that to date, the core of disease control for COVID-19 has been control of humans, which carry the SARS-CoV-2 virus, or non-pharmaceutical interventions [6], [7].

What is the Three Es?

Humans have behavioral complexities. Behavior change approach requires a theoretical approach [8]. One of the concepts that have been formulated is to include discipline in behavior change [9].

The three Es’ concept was conveyed by Paisley and Atkin [10]. Paisley and Atkin argued that to create behavior change, the efforts made must be an integration of three aspects called the three Es, namely, education, engineering, and enforcement [11].

In the context of COVID-19, the public has long been given education about the importance of wearing masks, maintaining distance, and using disinfectants. Campaigns by various institutions have been massively developed so far, using various types of social media, television, newspapers and magazines, as well as public media. The message is clear, that COVID-19 can be prevented by following the health protocols recommended by the government. Meanwhile, engineering is present by ensuring that the contents of the message can be easily implemented through the presence of affordable masks, disinfectants whose products are available in the market, and hand washing facilities in all public areas. Those two things, education and engineering, have been going on since the pandemic occurred.

However, these two things cannot be effective without enforcement. Enforcement is needed to ensure that people change their behavior according to the message and engineering that has been designed for it. In the field of public health, two popular things to make enforcement an important principle are the use of seat belts and control of cigarette consumption. In an effort to reduce traffic accidents, the application of fines to motorists has actually increased seat belt compliance. Likewise, regulations that tighten penalties on cigarette sellers and users have made tobacco control successful. In the long term, the enforcement of these two things can prevent health problems from increasing, including the rate of traffic accidents and lung cancer patients.
That is what is currently being carried out in many countries that are able to control COVID-19 cases. They ensure community compliance with established health protocols [12], [13]. The decline in infection rates occurred in India, including in Spain, Germany, Italy, the UK, and France, Belgium, Austria, New Zealand, India, Hungary, Poland, and Malaysia, even China and the US, when enforcement was implemented [7], [14], [15], [16], [17]. An effective strategy does need to be developed according to the context of each country [18], but with strict controls, regarding movement restrictions [19], [20] to ensure social distancing, including the implementation of school closures, crowd restrictions, and cessation of public services, which is done either in full or in part [21], [22], [23]. The experience of tight pandemic control since COVID-19 erupted in China provides a clear signal that disciplined enforcement is an important keyword [24]. The compliance even concerns cross-border restrictions to prevent imported cases [25].

Relaxing activities and even compliance can indeed be done, but require modifications that adapt to the conditions of society because COVID-19 has economic consequences [22]. The relaxation of activities takes into account the circulation of patients, daily cases, and other important trends originating from hospitals and treatment facilities. Hence, the enforcement of the rules should be done not when the case is high, but when the trend is sloping. Delay in responding to these conditions will result in delays in controlling the situation [26]. This means that discipline is strictly enforced before the COVID-19 case reaches its peak. Unfortunately, in the 6 months before the peak of this pandemic occurred, enforcement in Indonesia did not appear to be well enforced.

This is the key point that causes Indonesia to become the epicenter of COVID-19 in the early second half of 2021. Like an epidemic, this will certainly end, when the curve reaches its peak. However, this condition will certainly happen again, if enforcement, as an important policy [27], is not seriously implemented by all elements of society and local governments.

Future Planning

Even though the resulting social consequences are so great [28], COVID-19 disease can be controlled [29]. The WHO itself admits that countries with excellent readiness and alertness in responding to COVID-19 are now being overwhelmed by the Delta variant. Many countries that initially managed to control COVID-19 are now preparing to face the eruption of a new variant of the virus. Daily cases in many countries have increased, after the easing of the restrictions that have been carried out so far even though the pandemic is not over [30]. This means that health discipline enforcement policies will greatly determine the condition of COVID-19 in a country [31], [32], [33].

Indonesia must learn from the current situation. At first glance, it is easy to see if people’s behavior seems not to be good. Here and there, the practice of health protocols (prokes) is still very loose. The use of masks, the habit of washing hands, and maintaining distance are still very lacking, even when it continues to this emergency PPKM period. People’s refusal to comply with enforcement during emergency PPKM is the result of neglect of discipline so far. Revitalization of discipline is needed as an ecosystem of positive behavior on a wide scale [34], [35], [36], [37], [38], [39] through the application of a combination of three Es. If it is successfully created, Indonesia will lead to the realization of the social discipline that is very much needed to fight the spread of COVID-19 consistently even though it remains dynamic. The essence of controlling COVID-19 lies in the discipline of policies to control the mobility of the population’s behavior. If this is effectively implemented, the daily number of COVID-19 sufferers can be reduced, although it is not to eliminate COVID-19 itself.

Conclusion

We hope that the government will be firm in applying discipline to health protocols. The implementation of the tightening policy may be more emphasized without sacrificing the people’s economy, as has always been stated by the government so far.

References

6. Parino F, Zino L, Porfiri M, Rizzo A. Modelling and predicting the
PMid:33561374

PMid:32870386


PMid:33031366

PMid:33036132

PMid:32426062

PMid:32495288

PMid:33329229

PMid:32434145

PMid:33758566

PMid:32621869

PMid:33036132

PMid:33713009

PMid:33777684

PMid:33568900

PMid:32439306

PMid:33186687

PMid:33073919

PMid:32415768


PMid:32942955


PMid:33208764

32. Al-Hasan A, Yim D, Khuntia J. Citizens’ adherence to COVID-19 mitigation recommendations by the government: A 3-country


