

Too Tight or Too Loose? Stringency of Mobility Restriction Policy Response by the Government of Sri Lanka Against Covid-19

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TOO TIGHT OR TOO LOOSE? STRINGENCY OF MOBILITY RESTRICTION POLICY RESPONSE BY THE GOVERNMENT OF SRI LANKA AGAINST COVID-19

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Abstract:

The Covid-19 pandemic has demanded governments to respond through policy measures on health systems, restriction of community mobility, and economic recovery. Policy measures on mobility included international and local travel restrictions, closure of schools and workplaces, work from home, cancellation or restriction of public gatherings, close of public transport, and stay at home orders. Sri Lanka too has embraced several policy measures restricting community mobility to curtail the outbreak. This paper analyzes the trend of stringency of Covid-19 mobility restriction policy response by the Government of Sri Lanka concerning its epidemiological trend, and with the same patterns observed in selected countries of the world. The Government Response Stringency Index (GRSI), a composite indicator developed by the Oxford Government Response Tracker (OxCGRT) group consisting of nine indicators based on publicly available data was used to track the stringency of policy measures related to mobility restrictions in Sri Lanka and the selected other countries. Besides, the daily number of Covid-19 cases in the same countries was analyzed. The results show that Sri Lanka was able to achieve 100% in the GRSI at the early stages of the outbreak, and most clusters it faced were curtailed under considerable high GRSI levels. GRSI values dropped to 26.85% just before the onset of the largest ever Minuwangoda Cluster,



with three purposefully selected blocks of countries showed that its stringency to be comparatively lower than most of the countries studied, as per the end of the study period. It could be seen that the current GRSI values about the policy measures adopted by the government of Sri Lanka are suboptimal, compared to the level of risk based on the case trend that the country is exposed to, as of 30th November 2020. These findings provide evidence towards implementation of more stringent mobility control measures on an urgent basis, at least until the case number starts to fall.

Keywords: Covid-19, Government Response Stringency Index, Stringency Fatigues, Mobility,

Policy Response



1. Introduction

Exactly one year on, from the discovery of the first case of SARS-COVI 2 virus infection in China, the world community has witnessed an unprecedented spread of the infection transcending all geographical, social and ethno-religious boundaries. As of 30th November 2020, World Health Organization (WHO) has estimated a staggering 62,195,274 COVID-19 cases around the globe and 1,453,355 fatalities (World Health Organization 2020b). According to WHO world regions, the Americas contribute to the lion share of the global cases with 24,563,600 cases, whereas the South East Asia Region (SEARO) records 10,367,553 cases. India has recorded nearly 9 million cases. The United States of America (USA) seems to be the hardest hit in case of fatalities, recording 266,932 deaths as of 30th November 2020. As per the latest available figures around 220 countries, areas or territories are affected by the COVID-19 pandemic. As of 30th November 2020, data from the Epidemiology Unit of the Ministry of Health, Sri Lanka records 23,484 cases with 116 deaths (Epidemiology Unit 2020).

As a Public Health Emergency of International Concern (PHEIC) and pandemic has demanded countries to respond in an unprecedented manner through interventions at the policy level to the tactical level (World Health Organization 2020a, 2020c). Some policy level decisions ranged from full lockdown of countries to implementation of selective aspects of restrictions (Erdbrink and Anderson 2020; FT Visual & Data Journalism Team 2020). Policy level decisions varied in their technical domain as well. The first group of policies was essentially large-scale use of existing health system policies such as those on surveillance at Ports of Entry, quarantine, laboratory testing, treatment of positive cases, contact tracing, containment and wearing of face masks. The second group of policies, or containment and closure policies targeted restricting mobility of



restrictions, and quarantine curfews. The third group of policies was economic policies focused on managing the adverse effects of certain policy decisions, for example, supporting the vulnerable communities who have been affected by the movement restrictions or financially supporting those who are affected due to lockdowns (Hale et al. 2020b). The policy decisions were meant to be implemented so that they would lead to actions, which would in return contribute to prevention and control of Covid-19. However, good policies may not bear good results because many other complex factors could complicate such policy decisions. For example, certain "good" policy decisions made by the government may not be implemented at all, while the others may lack mechanisms for their enforcement. Policies restricting the movement may be effective from the epidemiological point of view, however, from an economic point of view, they could be suicidal (Cross, Ng, and Scuffham 2020; Ferraresi et al. 2020). Certain government systems too, for example, the health system, or legal system may have their challenges of adopting and implementing new and more radical policy decisions. On the other hand, most policy decisions demand adherence to them by the communities, which may largely be dependent on health literacy as well as civic literacy of the population. Hence, good policy decisions are not necessarily meant to be successful, nor they will assure that the Covid-19 caseload will come down as a result of them, at least in the short run (Potter and Harries 2006). The focus of this paper is on the second group of policies, namely those which were containment and closure policies, meant to reduce the mobility of communities, which was expected to reduce the transmission of the disease.

Across the globe, many governments have implemented different strategies to restrict the mobility of persons (FT Visual & Data Journalism Team 2020). Some countries have declared full lockdown while others have resorted to selective elements, ranging from international and local



of public gatherings, close of public transport, stay at home orders (Hale et al. 2020b). Governments have adopted a dynamic and iterative approach, in selecting all or some of the policy options available, to address the mobility restriction needs of the time. The Covid-19 status of a country can be measured, at least to a certain degree by the number of cases and deaths reported, even though it is much affected by the availability and coverage of testing facilities in a country (World Health Organization 2020b). Nevertheless, measuring the level of stringency at which the mobility restriction policies have been implemented in a country is a challenging task.

The Oxford Government Response Tracker (OxCGRT) group, among eighteen indicators that they collect globally through publicly available information government responses, uses nine indicators to track the stringency of the mobility restriction policies and measures (Hale et al. 2020a). These indicators are used to develop a composite indicator "Government Response Stringency Index" (GRSI) which could be used to track the status of policies and measures concerning mobility restrictions of a country over time, or to compare different countries across the time (Hale et al. 2020b).

Sri Lanka, an island nation in the Indian Ocean has implemented policies and measures addressing restricting mobility of the people during the Covid-19 pandemic, as a part of a comprehensive set of policy tools used targeting the health system, mobility restriction and economic recovery (Jayaratne, Arambepola, and Prathapan 2020). Sri Lanka has been able to successfully curtain several clusters of Covid-19 since the beginning of the year 2020, however, by November 2020, it is struggling to curtain a large Minuwangoda cluster and subclusters linked to it (Epidemiology Unit 2020). In this backdrop, it is essential to find reexamine the stringency of mobility restriction



policy response mounted by the Government of Sri Lanka. The objective of this paper is to analyze the trend of stringency of Covid-19 mobility restriction policy response by the Government of Sri Lanka with its epidemiological trend, and in relation to the same patterns observed in selected countries of the world.

2. Methodology

2.1 The Government Response Stringency Index (GRSI)

To measure the stringency of mobility restriction policy response, the GRSI, developed by

the Oxford Government Response Tracker (OxCGRT) group was used (Hale et al. 2020a).

This group of researchers from Oxford University, though an extensive network of

volunteers collects publicly available information about 8 indicators of government responses

for Covid-19 (Refer Table 1).

Policy Category	Number of indicators	Indicator Numbers
Containment and Closure	8	C1 – C8
Policies		
Economic Policies	4	E1 – E4
Health System Policies	6	H1 – H6

With the data gathered with the above 18 indicators, four sets of standard indices are generated. Each of these indices ranges from 1 to 100 (Refer Table 2).



Table 2 : Oxford Government Response Tracker Indicators, Area of Focus and Component

Indicator	Area of Focus	Component indicators	
stringency index	Strictness of 'lockdown style' policies that primarily restrict people's behavior	C1- C8, H1	
economic support index	income support and debt relief	E1 – E4	
containment and health index	'lockdown' restrictions and closures with measures such as testing policy and contact tracing, short term investment in healthcare, as well investments in vaccine	C1- C8, H1, H2, H3, H6	
Overall government response index	Overall government response	C1-C8, E1 – E2, H1 – H6	



In this study, the GRSI, which was the original index that the OxGRT group developed was utilized. A point to note is that in addition to indicators measuring containment and closure, one indicator on public information campaigns is also included in the GRSI, probably highlighting the importance of such campaigns on viability of such mobility restriction efforts.

It should be highlighted that these indices are intended to record the strictness of government policies. They should not be interpreted as scoring the appropriateness of effectiveness of a particular country's response. A higher score in the index does not necessarily mean that the country's response is superior to those with a lower score since many other factors would come into play in the implementation of the policy in reality.

The GRSI calculated by simple averages of the individual component indicators.

$$GRSI = \frac{1}{k} \sum_{j=1}^{k} Ij - \text{Equation 1}$$

K = the number of component indicators in an index

 I_j = the sub-index score for an individual indicator

Different indicators (j) have different maximum values. Only some have flag variables INj). Thus, each sub-index score had been calculated separately. The details of indicators that comprise GRSI are shown in Table 3.



Indicator	Number	Max. value (Nj)	Flag? (Fj)
School closing	C1	3 (0,1,2,3)	yes=1
Workplace closing	C2	3 (0,1,2,3)	yes=1
Cancellation of public events	C3	2 (0,1,2)	yes-1
Restriction of gatherings	C4	4 (0,1,2,3,4)	yes=1
Close public transport	C5	2 (0,1,2)	yes=1
Stay at home requirement	C6	3 (0,1,2,3)	yes=1
Movement restriction	C7	2 (0,1,2)	yes=1
International travel restriction	C8	4 (0,1,2,3,4)	no=0
Public information campaigns	H1	2 (0,1,2)	yes=1

Table 3: Government Response Stringency Index Details

Each sub-index score (I) for any given indicator (j) on any given day (t), is calculated by the function described in equation 2:

$$I_{j,t} = 100 \frac{v_{j,t} - 0.5(F_j - f_{j,t})}{N_j}$$
 ------ Equation 2

- the maximum value of the indicator (N_j)
- whether that indicator has a flag (*F_j*=1 if the indicator has a flag variable, or 0 if the indicator does not have a flag variable)
- the recorded policy value on the ordinal scale $(v_{j,t})$



• the recorded binary flag for that indicator $(f_{j,t})$

This is used to normalize the different ordinal scales to produce a sub-index score between 0 and 100 to ensure that each full point on the ordinal scale is equally spaced. For indicators that do have a flag variable, if this flag is recorded as 0 (For example, if the policy is geographically targeted but not countrywide), then this is considered as a half-step between ordinal values.

2.2 Data Sources and Timeframe

The GRSI calculated data set by OxCGRT website from 23.01.2020 (the earliest date on which the data was available) and up to 30th of November 2020 was downloaded (Hale et al. 2020a). The sub-indicator data for Sri Lanka was also downloaded from the OxCGRT website. The Covid-19 case data was obtained from the Our World in Data website (Roser et al. 2020)

2.3 Countries of interest

It was necessary to compare the GRSI and epidemiological pattern of Sri Lanka with some selected countries. Three Blocks of countries were selected for this purpose.

Block 1 - First contact countries: China and South Korea were selected as two proxies of the first countries that came into contact with the virus. Further, both countries had strong geopolitical and economic ties with Sri Lanka.

Block 2 – South Asian Association for Regional Corporation (SAARC) Countries. These countries had many socio-economic and cultural similarities to Sri Lanka, hence understanding their stringency policies could be useful. Since data from the Maldives was not available for GRSI in the data set, it was excluded. Thus Afghanistan, Bhutan, Bangladesh, India, Nepal, and Pakistan were studied.



Block 3 – The affluent countries. United States of America, the United Kingdom, Australia, and

New Zealand were included.

The number of Covid-19 cases and the GRSI values for each country were plotted for the period

from 23.01.2020 to 30.11.2020. The patterns were compared visually.

3. Results and discussion

The GRSI consists of nine sub-indicators, eight on mobility restriction and one on public

information campaigns. The distribution of the sub-indicators is shown in Figure 1.



Paper ID: ICSBE2020-177





Figure 1: Distribution of Sub-Indicators of the Government Response Stringency Index for Sri

Lanka

As per Figure 1, it should be seen that at least for some periods, all indicators have reached the highest possible score, indicating that the country has been in full swing in the stringency of the mobility restriction measures. Some indicators, such as school closure, cancelation of public events, and restriction of international travel has been sustained for considerable time. Nevertheless, workplace closing, restriction of gatherings, public transport closing, staying at home requirements, and movement restrictions have been quite short lived. One interesting observation is that public education campaigns, which took a while to come to their fullest, continue at that level even to the end of the study period. The GRSI and Covid-19 New Case Occurrence over the study period for Sri Lanka are shown in Figure 2.



Paper ID: ICSBE2020-177



Figure 2: Daily Distribution of Covid-19 New Cases and Stringency Index in Sri Lanka

From Figure 2, it is evident that Sri Lanka has witnessed a rapid rise of the GRSI, reaching 100% by 27.03.2020. The GRSI remained at 100% till 17.04.2020, then a slow stepwise decline to 26.85% by 03.10.2020 was observed. However, the GRSI saw a rise to 34.26 over a day and remained so, until 02.11.2020 when it further increased up to 55.09%. With a mild drop to 47.69% only for one day, the GRSI continued to stay at 50% till the end of the observed period.

When comparing the trend of the daily new cases, it is seen that the country was able to contain the first few clusters successfully when the country GRSI was going at 100%. It should also be noted that the large clusters such as the Kandakadu have occurred at times when the SI had been above 50%. With the reduction of daily new cases, it was logical to reduce the level of stringency, as seen in the Figure 2. However, this seems to have changed after the occurrence of a large number of COvid-19 cases all of a sudden. A rise of GRSI of around 8% was seen within a day of the



occurrence of Minuwangoda cluster. Within 28 days of the onset of the Minuwangoda cluster, the GRSI stabilized just below 50% of GRSI, giving Sri Lanka GRSI curve a "gutter". Another striking feature that could be seen is that the large spikes of daily cases being reported, as never before, at times when GRSI.

Having observed the Sri Lankan scenario, he countries in Block 1, those who first contacted the

disease were studied.



Paper ID: ICSBE2020-177



Figure 3: Daily Distribution of New Covid-19 Cases and Stringency Index in China and South

Korea

When looking at China, a striking feature is that despite the large wave of Covid-19 cases in early 2020, the country has been able to maintain quite a flat base up to date. In contrast, China, continued to maintain a GRSI close to 80% up to the end of September. Since then, much lesser GRSI levels with frequent gutters are seen.



Unlike China, South Korea has several large waves of cases, one even continues to rise to date.

After rising to a peak above 80% over a couple of months, GRSI dropped to stabilize between 40

-60%.

The pattern of Sri Lanka with those of countries in Block 2, the members of the South Asian

Association for Regional Cooperation (SAARC) region will be compared below.

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Paper ID: ICSBE2020-177



Figure 4: Daily Distribution of New Covid-19 Cases and Stringency Index in SAARC Countries

other than Sri Lanka and the Maldives



countries was the sharp rise of GRSI observed in March 2020. It should be noted that only India and Sri Lanka scored 100% of the GRSI. India could maintain the GRSI around 80% since it drops from 100%, except towards the gutter observed between September to November. When comparing with the gutter experienced in the curve for Sri Lanka, three such smaller gutters were observed in the curve of Pakistan. Pakistan never reached 100% GRSI, the highest point reached being around 95%. However, except for a drop to around above 60% in May - June, Bangladesh was able to sustain the GRSI at 80% to date, which is the highest recorded GRSI by the time of the final date of reporting. Afghanistan, reached a GRSI of over 80%, which is its highest reached, which was maintained till June 10, however subsequently, a stepwise decline of the GRSI to reach around 10% by the end of the reporting period. Bhutan was the only country in the region that had around 80% GRSI, which only dropped to 65% over the last week of November.

It should be noted that the axis showing the number of Covid-19 cases among the displayed SAARC member states are quite variable. For example, Bhutan has the lowest number of Covid-19 cases reported per day, even the highest not going beyond 40 cases per day. In contrast, India and Pakistan recorded daily cases even going close to 12,000. Thus, the comparisons based on the number of cases between these figures must be done with caution, which is not the intended purpose of these charts. Except for Afghanistan, which has let the stringency fall below 20%, even with continuing case numbers, all other five countries have been able to maintain GRSI around 60% irrespective of the epidemiological trend. This is a worryingly a quite reckless pattern observed in Sri Lanka, which let the GRSI fall below 30% until it was pushed up only up to 50% after a large spike of cases was reported. The countries in Block 3, the more affluent counterparts will be examined in the next section.



Paper ID: ICSBE2020-177



Figure 5: Daily Distribution of Covid-19 Cases and Stringency Index in Selected Affluent

Countries



Both the USA and UK show that they have been able to maintain around 70 - 80% GRSI values, except in the initial two months. Nevertheless, the case numbers have grown in three waves in the case of the USA and two large waves in the UK.

In contrast, both Australia and New Zealand shows a wave-like pattern in the GRSI values, synchronous with the waves of cases observed. This is clearer for New Zealand than for Australia, which has allowed the GRSI to fall relatively low while revamping it up with the rising caseload.

Considering all the above facts, several vital points could be discussed. Firstly, GRSI could be a versatile tool that the policymakers could use to have an independent insight into the level of stringency of their own decisions (Hale et al. 2020b). In this era of the internet of things and Covid-19 Pandemic, remote monitoring of country policy decisions has become not only feasible and cost effective, but also safe. Since policy makers commenting on their own decisions, as well as their stringency will not only be politically incorrect but also be scientifically unsound, more independent mechanisms such as GRSI could be used for this purpose.

Secondly, the governments need to be aware of the "stringency fatigue" that is observed as gutters, which have been a common feature across many counties. This stringency fatigue could occur as a result of competing interests that the governments may have to respond to. For example, economic impacts of lockdown are potential, much legitimate yet conflicts of interests that governments may have to work with, when looking at solely from a mobility and outbreak spread is considered (Cross et al. 2020). While it is essential to loosen up the restrictions on mobility, this should be based on sound epidemiological evidence. For example, even after recording a massive peak of cases over a short period, when GRSI was well below 30%, the government mechanisms Sri Lank have not been able to raise the GRSI value above 50%. Several arguments are given for



this. Firstly, the economic burden of a rise of GRSI. Secondly, the disease is still confined to a localized area, which lead to a lockdown of the affected Western Province. Both are valid arguments (Epidemiology Unit 2020). However, the point is that all possible evidence must be considered by the governments before making critical decisions concerning public health.

Thirdly, a risk-based stringency approach seems to be most suited. The stringency measures must be proportional to the risk. Let's take the example of Sri Lanka. When the country was managing a few localized clusters, the stringency has been at its peak. However, when the country is facing the largest cluster with blossoming subclusters across the country, it has not been able to increase the stringency beyond 50%. Probably, this is an example of how things should not have been done in a risk-based manner. In contrast, New Zealand appears to be providing a good example of doing things better using a risk-based stringency approach. New Zealand brought down its stringency with decreasing case numbers, however when a large number of cases are reported, they were able to raise the stringency levels back. Subsequently, with dropping case numbers, New Zealanders were able to downscale the measures. This could be one contributor of New Zealand's success in curtailing the Covid-19 pandemic so far (Jefferies et al. 2020).

There are certain limitations of the current study which needs to be kept in mind. Firstly, the relative importance of sub-indicators which make up the GRSI need to be taken into consideration in a deeper analysis. Secondly, policies related to the mobility are much likely to be influenced by other broader economic and health policies. This interdependence needs to be taken into consideration in future research. Thirdly, the GRSI measures the existence of a policy, not necessarily the adherence and compliance. These latter will vary with mode of implementation, legal measures and culture. Fourthly, the absolute number of cases was used in the current study,



however, per capita number of cases would have been a better measure of diseases. For example, comparing India and Bhutan stretches the meaning in talking of absolute number of cases. These limitations need to be overcome in future more detailed work, including using more advanced statistical methodologies, where appropriate.

4. Conclusion

Considering the status of Sri Lanka, as of 30th November 2020, it is evident that the current GRSI values adopted by Sri Lanka appear to be suboptimal compared to the level of risk that the country is exposed to as evident from the case trend. In this backdrop, rapid uplifting of the stringency of the country, at least until the case number starts to decline is recommended. Economic repercussions of such policy decisions are quite valid and legitimate; however, the public health consequences of the widespread Covid-19 transmission can have much more sustained and long-lasting impacts on the economy, which could be much devastating. Afterall, the health of the public is an unnegotiable priority, since the economic gains of an unhealthy population will for sure leave an empty treasury.

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