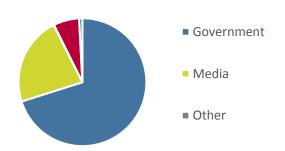
Fighting pandemic through interventions: A view of how governments worldwide are reacting to the Covid-19 crisis.

Introduction:

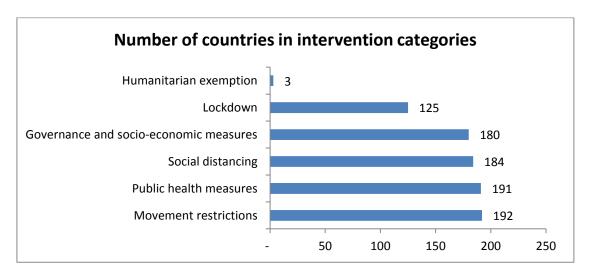
In the wake of Covid-19, all nations have taken certain interventions or measures to safeguard their people and keep the effects of the pandemic at bay. A rich database of Government Measures of 196 distinct countries is being created and maintained by an organization called ACAPS (https://www.acaps.org/covid19-government-measures-dataset). Following is a quick look at how this data is created:

Type of Sources



What are the Intervention Categories?

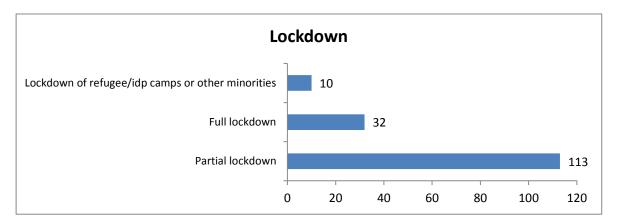
The interventions data categorizes every measure by any country into six broad categories. Following is a look of popularity of the measure categories i.e. how many countries are falling in each of these categories?



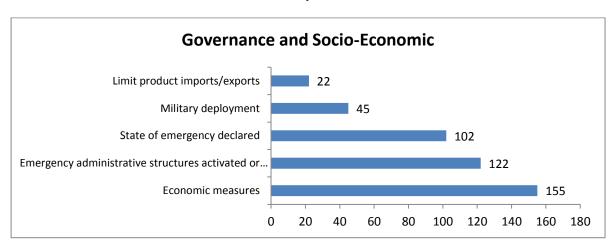
We see that Humanitarian exemption is the least popular being adapted by 3 countries (Ireland, Israel and South Sudan) whereas the ones most popular (with more than 190 i.e. 98% of the countries) being movement restrictions and public health measures.

What are the detailed measures?

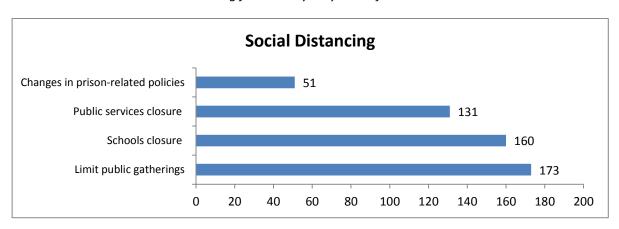
Each of these categories is then broken down into particular set of measures to understand the detailed interventions. Following is a similar look of these 5 categories (except Humanitarian Exemption) in terms of popularity or number of countries adopting them:



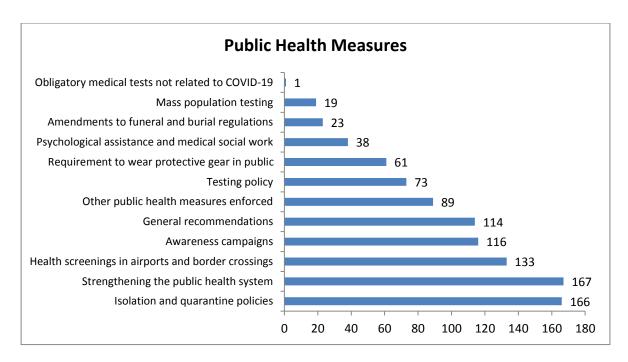
Most of the countries have taken partial lockdown with full lockdown being followed in only 16% of the countries.



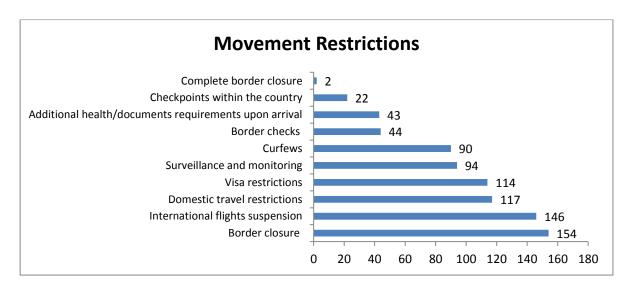
Most of the countries have taken economic measures with limits on product import/export being followed by only 11% of the countries.



Most of the countries have provided restrictions on public gatherings and restored to school closures with few changing prison related policies.



Most of the countries have adopted Isolation and Quarantine Policies and strengthened Public Health System while mass population testing is being followed by few.



Most countries have suspended international flights while few have completely closed borders and made checkpoints within countries.

When and how soon were these measures adopted?

For understanding the measures better and how proactively the countries reacted we overlay the first cases of Covid-19 in each (sourced from JHU database in R: https://cran.r-project.org/web/packages/covid19.analytics/vignettes/covid19.analytics.html) with the intervention knowledge.

• Following is the list of countries which reacted with any intervention even before the first case of Covid-19. In total 114 countries were proactive and reacted with an intervention before first infection, the earliest responders being the following ten countries with interventions as early as in the 1st week of January:

Country	Measure	Category	Date of Intervention	Date of first Infection
Russian Federation	Health screenings in airports and border crossings	Public health measures	01-Jan	31-Jan
Mongolia	Strengthening the public health system	Public health measures	01-Jan	10-Mar
United Arab Emirates	Visa restrictions	Movement restrictions	02-Jan	29-Jan
Singapore	Awareness campaigns	Public health measures	02-Jan	23-Jan
Thailand	Surveillance and monitoring	Movement restrictions	03-Jan	22-Jan
Bulgaria	Isolation and quarantine policies	Public health measures	03-Jan	08-Mar
Mali	Emergency administrative structures activated or established	Governance and socio-economic measures	04-Jan	25-Mar
Oman	Border checks	Movement restrictions	04-Jan	24-Feb
Panama	Border checks	Movement restrictions	04-Jan	10-Mar
Malawi	Economic measures	Governance and socio-economic measures	05-Jan	02-Apr

Following is a detailed list of countries divided into actions more than a month before and within a month before first infection. For ease of understanding this list of countries is divided into separate categories with their implementation date and first date of infections. The data is ordered with respect to the date of first infection. Also for every country only earliest measure is included here (to reduce the list). An interesting observation here is that most of the countries' first measure is public health measure and then movement restrictions with example being India, who has taken the first intervention as early as 25th Jan as "Health screenings in airports and border crossings" in Public Health Measure category.



	Movement restrictions			
	Country	Date of Intervention	Date of first infection	
	Thailand	03-Jan	22-Jan	
	United Arab Emirates	02-Jan	29-Jan	
	Philippines	19-Jan	30-Jan	
	Kuwait	20-Feb	24-Feb	
	Switzerland	13-Feb	25-Feb	
	Azerbaijan	29-Feb	01-Mar	
	Ukraine	19-Feb	03-Mar	
More than a month	Bosnia and Herzegovina	24-Feb	05-Mar	
before first case	Bangladesh	01-Mar	08-Mar	
perore insticase	Paraguay	07-Feb	08-Mar	
	Trinidad and Tobago	03-Mar	14-Mar	
	Uzbekistan	02-Mar	15-Mar	
	El Salvador	11-Mar	19-Mar	
	Cabo Verde	02-Mar	20-Mar	
	Madagascar	10-Mar	20-Mar	
	Botswana	13-Mar	30-Mar	
	Yemen	14-Mar	10-Apr	
	Oman	04-Jan	24-Feb	
	Lithuania	27-Jan	28-Feb	
	Tunisia	25-Jan	04-Mar	
	Panama	04-Jan	10-Mar	
Within a month before	Sudan	20-Jan	13-Mar	
first case	Central African Republic	29-Jan	15-Mar	
iii st tase	Montenegro	04-Feb	17-Mar	
	Kyrgyzstan	22-Jan	18-Mar	
	Papua New Guinea	09-Feb	20-Mar	
	Comoros	10- M ar	30-Apr	
	Tajikistan	24-Feb	30-Apr	

	Pu	blic health measures	
	Country	Date of Intervention	Date of first infection
	Singapore	02-Jan	
	Canada	25-Jan	26-
	India	25-Jan	30-
	Russian Federation	01-Jan	
	Belgium	01-Feb	04-
	Iran Israel	28-Jan 24-Jan	19- 21-
	Lebanon	16-Feb	21-
	Croatia	24-Feb	
	Iceland	24-Feb	28-
	Armenia	31-Jan	01-1
	Dominican Republic	29-Feb	
	Argentina	17-Feb	
	Hungary	03-Feb	
	Liechtenstein Slovenia	26-Feb 27-Feb	
	Serbia	26-Feb	
	Cyprus	07-Mar	
	Burkina Faso	13-Feb	10-
	Guinea	29-Feb	13-1
	Ethiopia	22-Feb	
	Antigua and Barbuda	12-Feb	
More than a month	Gabon	07-Mar	
before first case	Rwanda Eswatini	27-Feb 25-Feb	
	Ghana	06-Mar	
	Guatemala	12-Mar	
	Saint Vincent and the Grenadines	21-Feb	
	Equatorial Guinea	14-Mar	15-
	Somalia	12-Mar	
	Benin	03-Mar	
	Liberia 	09-Mar	
	Tanzania Zambia	25-Feb 24-Feb	
	Chad	08-Mar	
	Fiji	07-Mar	
	Nicaragua	11-Mar	
	Haiti	06-Mar	20-1
	Zimbabwe	12-Mar	20-1
	Eritrea	03-Mar	21-1
	Uganda	07-Mar	
	Mozambique	13-Mar	
	Grenada Libya	01-Mar 24-Feb	22-l 24-l
	Guinea-Bissau	24-Feb 11-Mar	
	Burundi	06-Mar	
	Afghanistan	24-Jan	
	Dominica	24-Jan	
	Indonesia	26-Jan	02-
	Morocco	25-Jan	02-1
	Latvia	31-Jan	
	Poland	31-Jan	
	Bhutan Malta	29-Jan	
	Bulgaria	19-Jan 03-Jan	
	Albania	24-Jan	
	Mongolia	01-Jan	
	Turkey	24-Jan	
Within a month	Guyana	26-Jan	12-
before first case	Mauritania	29-Jan	14-1
	Seychelles	29-Jan	
	Suriname	06-Feb	
	Saint Lucia	23-Jan	
	Bahamas	22-Jan	
	Barbados Djibouti	22-Jan 26-Jan	
	Mauritius	26-Jan 02-Feb	
	Angola	02-Feb 06-Feb	
	Timor-Leste	22-Jan	
	Belize	23-Jan	
	Sierra Leone	19-Feb	



	Social distancing		
Country Date of Intervention Date of			Date of first infection
	Saudi Arabia	27-Feb	02-Mar
month before first	Kazakhstan	05-Mar	13-Mar
case	Kenya	03-Mar	13-Mar



	Governance and socio-economic measures		
	Country	Date of Intervention	Date of first infection
	United States of America	21-Jan	22-Jan
	China	20-Jan	22-Jan
More than a month	Italy	22-Jan	31-Jan
before first case	Pakistan	12-Feb	26-Feb
Defore first case	Syria	13-Mar	22-Mar
	Saint Kitts and Nevis	09-Mar	25-Mar
	Sao Tome and Principe	02-Apr	06-Apr
	Cuba	28-Jan	12-Mar
Within a month	Gambia	01-Feb	17-Mar
before first case	Mali	04-Jan	25-Mar
	Malawi	05-Jan	02-Apr

For none of the countries, lockdown was the first measure adopted. But it is interesting to note that there are three countries that have resorted to partial lockdown before first case of Covid-19 arose:



	Lockdown		
	Country	Date of Intervention	Date of first infection
More than a month	Iran	31-Jan	19-Feb
before first case	El Salvador	11-Mar	19-Mar
perore illst case	Fiji	15-Mar	19-Mar

Only one country adopting humanitarian exemption before first case:



Insights:

- > From intervention database as of end of April, it can be concluded that there is no lockdown measure taken by the United States of America.
- ➤ Only 32 countries over the world have taken to full lockdown (India, Italy and Spain being among them).
- > China has taken to only partial lockdown.

• Following is the list of countries which reacted after first Covid-19 case divided into two sections - within a month and more than a month after. It is interesting to note that countries like Spain and United Kingdom have stepped forward with an intervention more than a month after the first Covid-19 case.

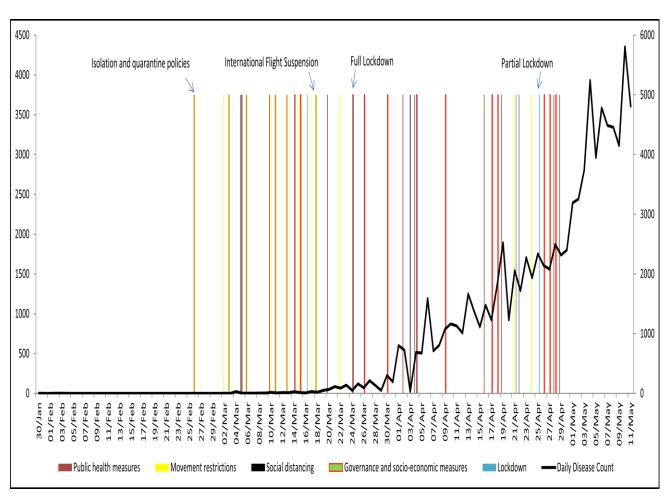
	Country	Category	Date of Intervention	Date of first Infection
	Japan	Public health measures	28-Jan	22-Jan
	Viet Nam	Public health measures	23-Jan	23-Jan
	France	Governance and socio-economic measures	13-Feb	24-Jan
	Malaysia	Governance and socio-economic measures	20-Feb	25-Jan
	Australia	Governance and socio-economic measures	17-Feb	26-Jan
	Germany	Public health measures	06-Feb	27-Jan
	Cambodia	Movement restrictions	19-Feb	27-Jan
	Sri Lanka	Public health measures	24-Feb	27-Jan
	Sweden	Governance and socio-economic measures	01-Feb	31-Jan
	Bahrain	Social distancing	26-Feb	24-Feb
	Iraq	Movement restrictions	26-Feb	24-Feb
	Algeria	Public health measures	05-Mar	25-Feb
	Austria	Movement restrictions	10-Mar	25-Feb
	Norway	Public health measures	05-Mar	26-Feb
	Brazil	Public health measures	07-Mar	26-Feb
	Greece	Public health measures	09-Mar	26-Feb
	Romania	Movement restrictions	09-Mar	26-Feb
	Georgia	Movement restrictions	15-Mar	26-Feb
	Denmark	Governance and socio-economic measures	27-Feb	27-Feb
	Netherlands	Public health measures	06-Mar	27-Feb
	San Marino	Movement restrictions	08-Mar	27-Feb
	Estonia	Public health measures	11-Mar	27-Feb
	Belarus	Governance and socio-economic measures	12-Mar	28-Feb
Within a	New Zealand	Governance and socio-economic measures	12-Mar	28-Feb
month	Niger	Public health measures	13-Mar	28-Feb
after	Nigeria	Public health measures	13-Mar	28-Feb
	Mexico	Social distancing	14-Mar	28-Feb
	Luxembourg	Public health measures	29-Feb	29-Feb
	Qatar	Public health measures	06-Mar	29-Feb
	Ireland	Public health measures	12-Mar	29-Feb
	Ecuador	Movement restrictions	02-Mar	01-Mar
	Portugal	Movement restrictions	10-Mar	02-Mar
	Senegal	Public health measures	14-Mar	02-Mar
	Chile	Movement restrictions	10-Mar	03-Mar
	Jordan	Public health measures	14-Mar	03-Mar
	South Africa	Governance and socio-economic measures	10-Mar	05-Mar
	Cameroon	Movement restrictions	07-Mar	06-Mar
	Slovakia	Governance and socio-economic measures	10-Mar	06-Mar
	Peru	Public health measures	11-Mar	06-Mar
	Colombia	Movement restrictions	12-Mar	06-Mar
	Costa Rica	Governance and socio-economic measures	14-Mar	06-Mar
	Togo	Governance and socio-economic measures	16-Mar	06-Mar
	Maldives	Movement restrictions	08-Mar	08-Mar
	Honduras	Movement restrictions	11-Mar	11-Mar
	Bolivia	Public health measures	14-Mar	11-Mar
	Jamaica	Movement restrictions	14-Mar	
			14-Mar 13-Mar	11-Mar
	Uruguay Namibia	Public health measures Movement restrictions		13-Mar 14-Mar
	Venezuela	Movement restrictions Movement restrictions	14-Mar	
		Public health measures	15-Mar	14-Mar 25-Jan
More than	Nepal Finland	Movement restrictions	05-Mar 07-Mar	25-Jan 29-Jan
a month				
	United Kingdom	Public health measures	11-Mar	31-Jan
after	Spain	Social distancing	03-Mar	01-Feb
	Egypt	Social distancing	15-Mar	14-Feb

A study of interventions in India:

Following is a graphical representation of the measures adopted by the Indian Governments colour coded according to the category of the measure. Here days are presented form the first Covid-19 case i.e. from 30th Jan till 11th May 2020.

- ➤ The first measure was taken on 25th Jan with health screening at airports and border crossings, which is not included in the picture.
- After the first Covid-19 case among the initial policies undertaken were isolation and quarantine policies under Public Health Measures.
- Full Lockdown was imposed on 24th March after which there were measures of partial lockdown taken towards end of April.





<u>Appendix:</u> The detailed intervention list for India is noted in a table in the next page, ordered with respect to date of implementation. Data is as of April end.

Public heath measures	CATEGORY	MEASURE	DATE_IMPLEMENTED AC	TION_TYPE
Public heath measures Strengthening the public heath system 5.5 an before after bublic heath measures solation and quarantine policies 2.6 feb after bublic heath measures solation and quarantine policies 2.6 feb after bublic heath measures solation and quarantine policies 2.6 feb after discourage 2.6 f	Public health measures			_
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