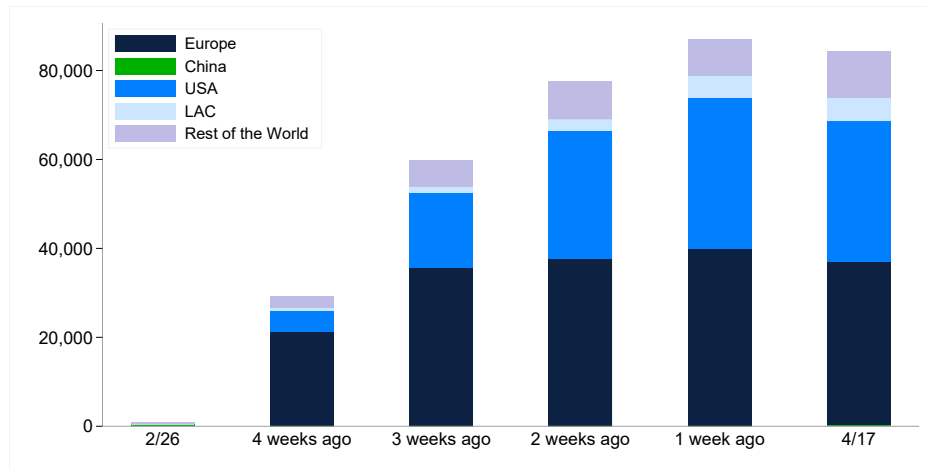


COVID-19 Situation update

April 17, 2020

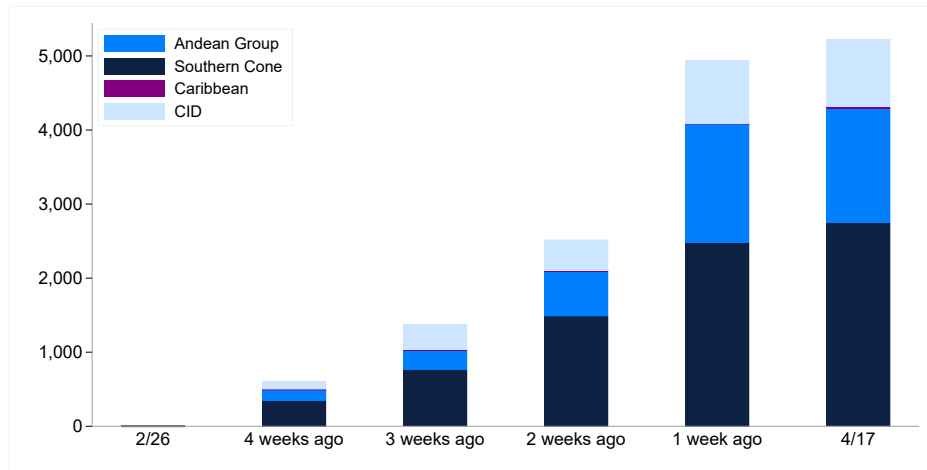


Total number of new cases by world region



Source: SPH calculations based on European CDC data

Total number of new cases by LAC region



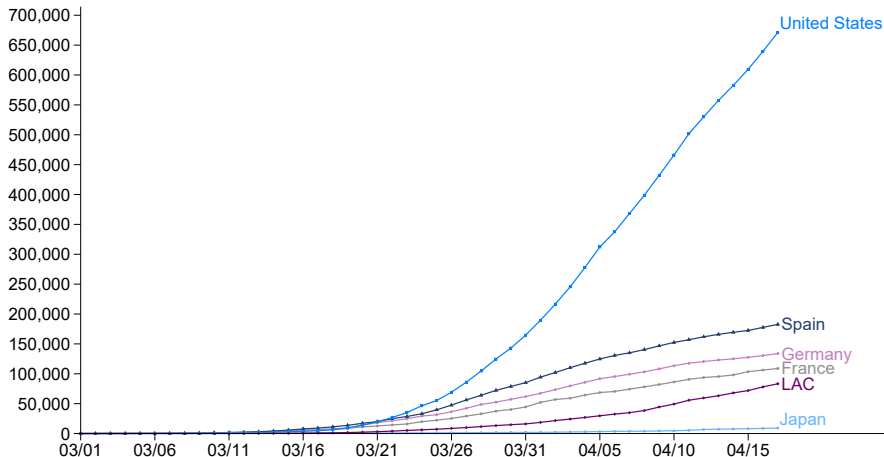
Source: SPH calculations based on European CDC data

Total confirmed COVID-19 cases by world region

	February 26	March 26	April 17
Global	80,995	467,391	2,114,408
United States	53	69,194	671,331
China	78,159	81,733	83,754
Rest of the world	2,782	307,867	1,275,992
Latin America and the Caribbean	1	8,597	83,331

Source: SPH calculations based on European CDC data

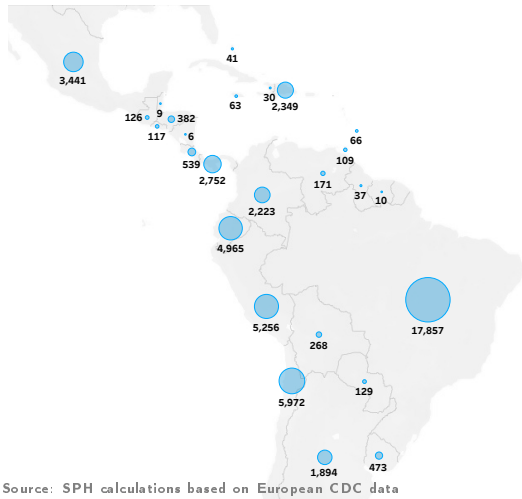
World trajectory of total COVID-19 cases



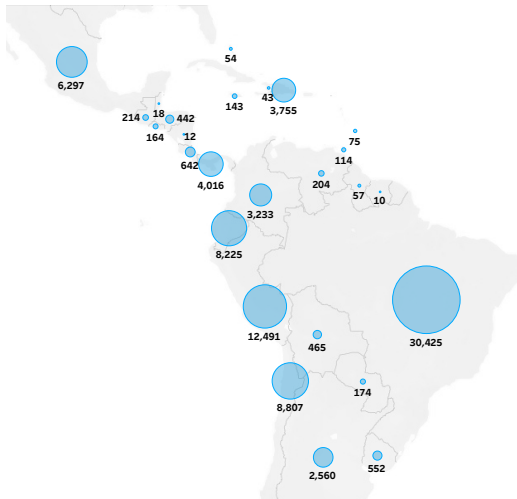
Source: SPH calculations based on European CDC data

Geographical distribution of COVID-19 cases in LAC

One week ago - April 10



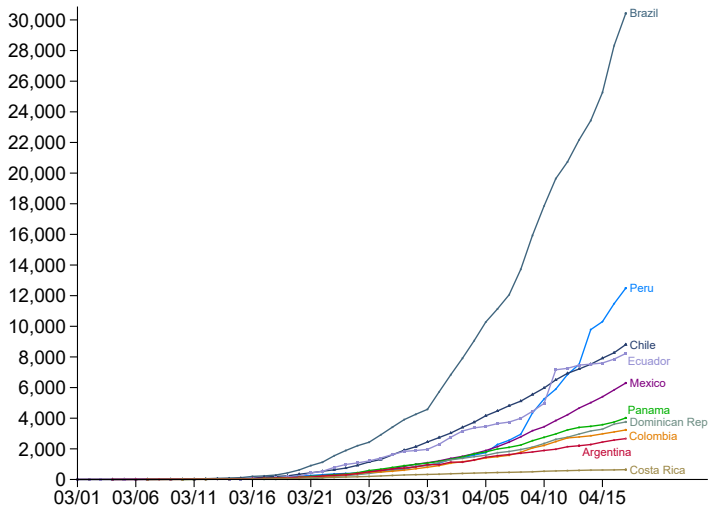
April 17



Source: SPH calculations based on European CDC data

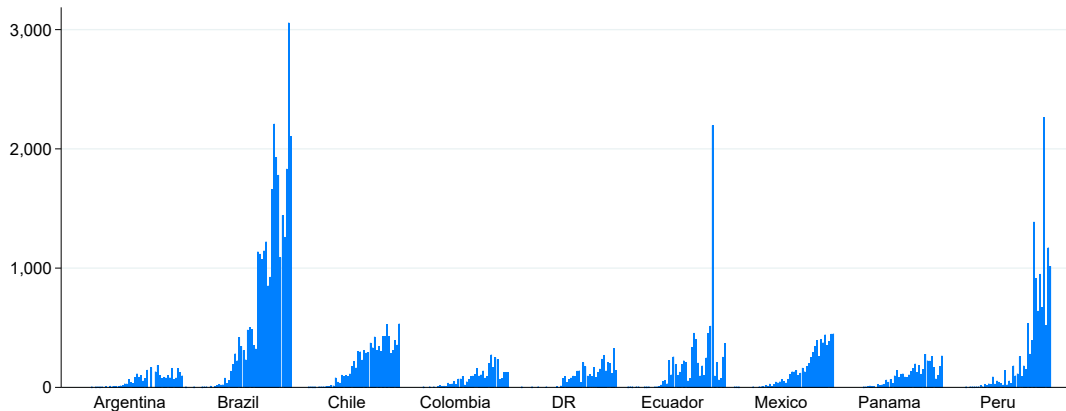
Total confirmed cases in the region

Top 10 countries



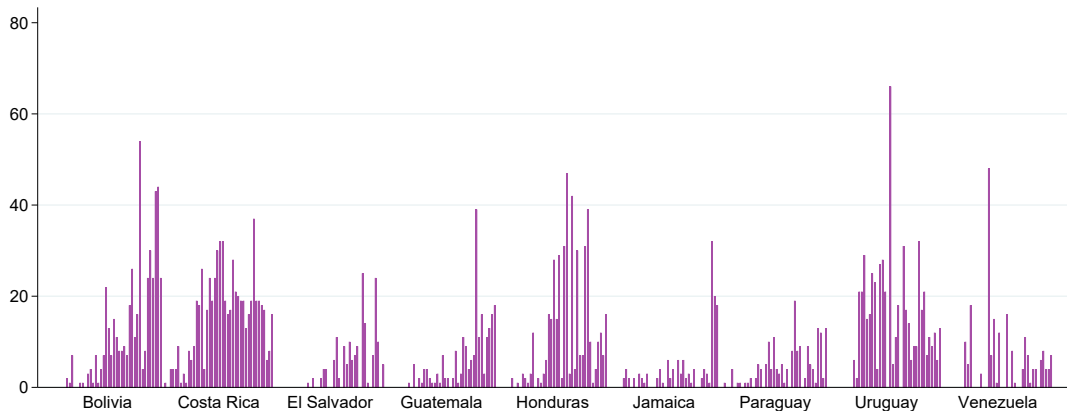
Source: SPH calculations based on European CDC data

Daily new confirmed cases - Top 9 countries



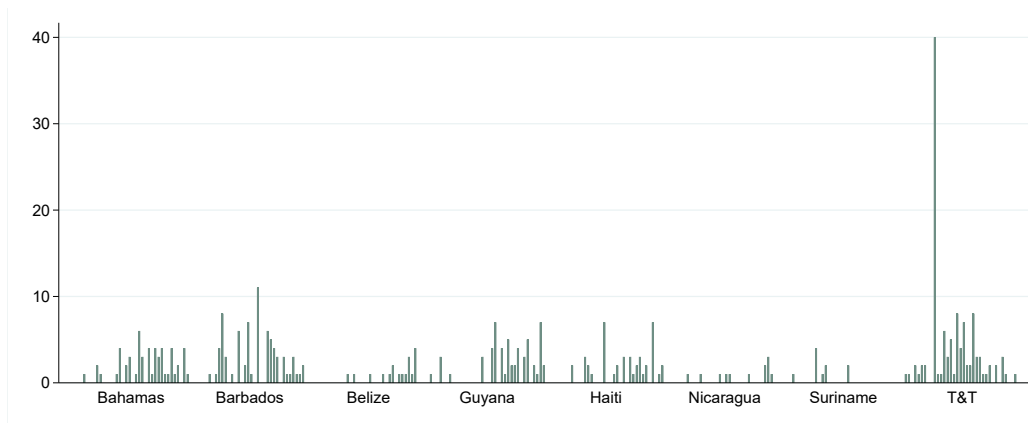
Source: SPH calculations based on European CDC data

Daily new confirmed cases - Top 10-18 countries



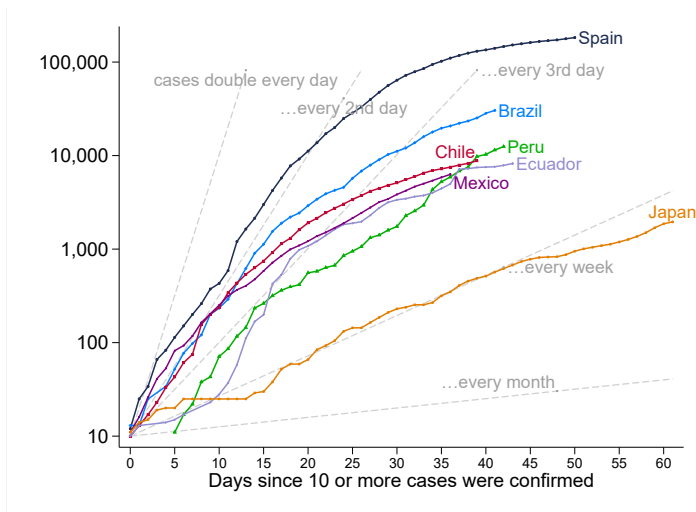
Source: SPH calculations based on European CDC data

Daily new confirmed cases - Top 19-26 countries



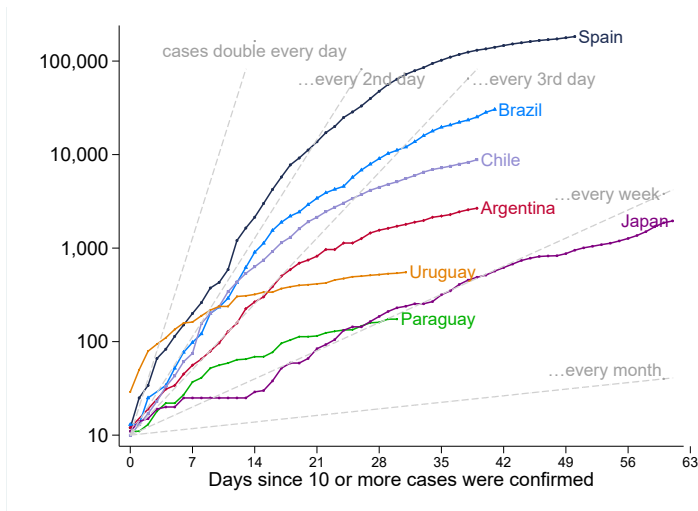
Source: SPH calculations based on European CDC data

Rate of growth of total confirmed cases in Top 5 LAC countries



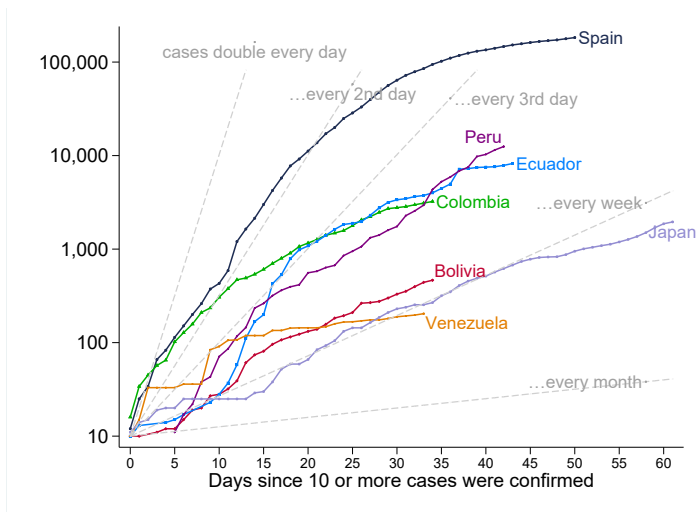
Source: SPH calculations based on European CDC data

Rate of growth of total confirmed cases in Southern Cone Countries



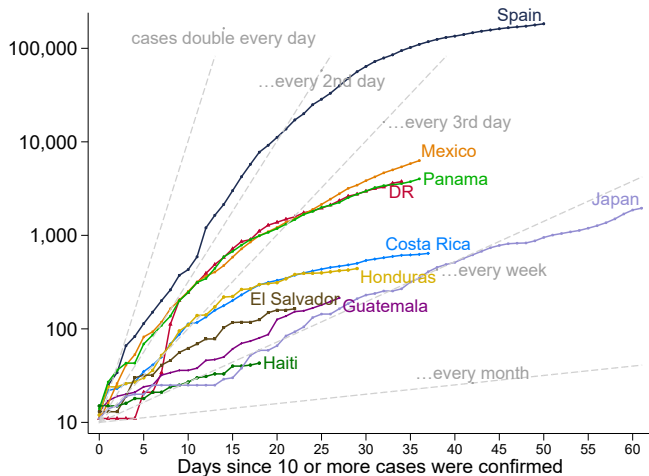
Source: SPH calculations based on European CDC data

Rate of growth of total confirmed cases in Andean Countries



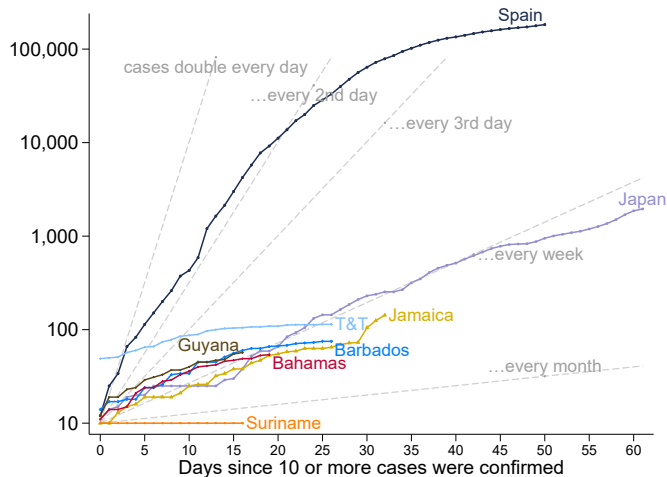
Source: SPH calculations based on European CDC data

Rate of growth of total confirmed cases in CID Countries (Central America, Mexico, DR & Haiti)



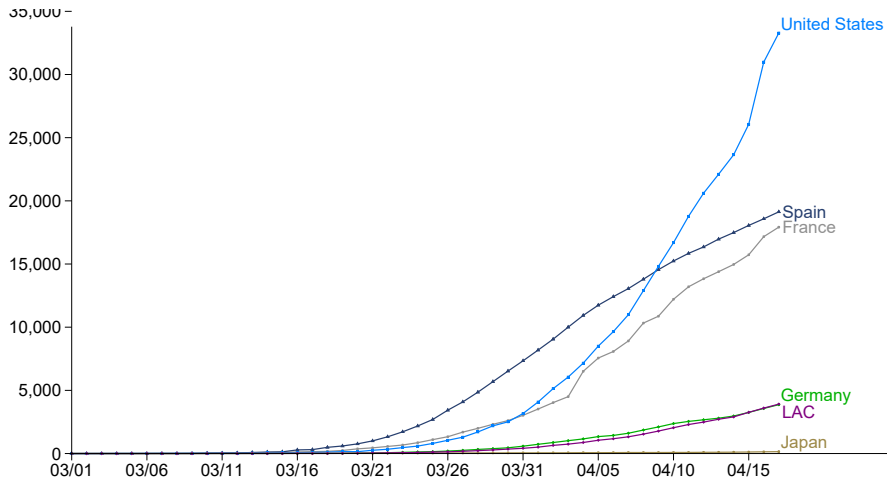
Source: SPH calculations based on European CDC data

Rate of growth of total confirmed cases in Caribbean Countries



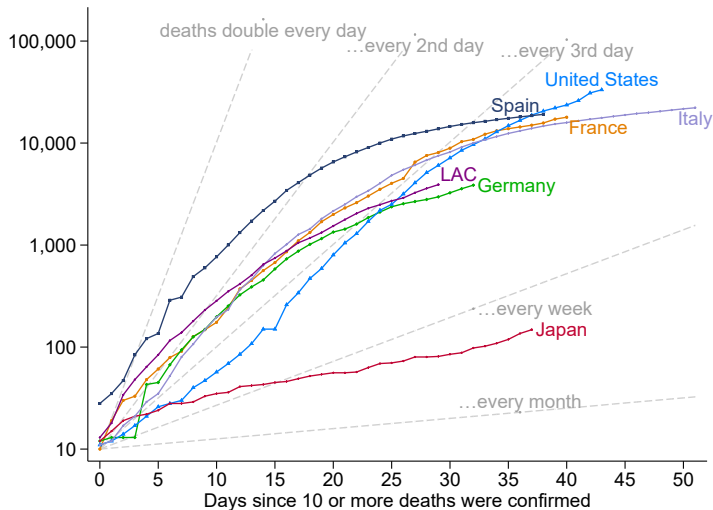
Source: SPH calculations based on European CDC data

World trajectory of total COVID-19 deaths

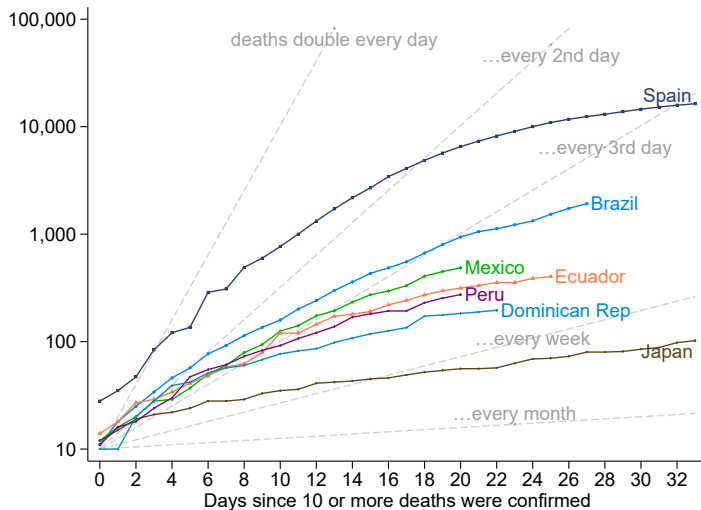


Source: SPH calculations based on European CDC data

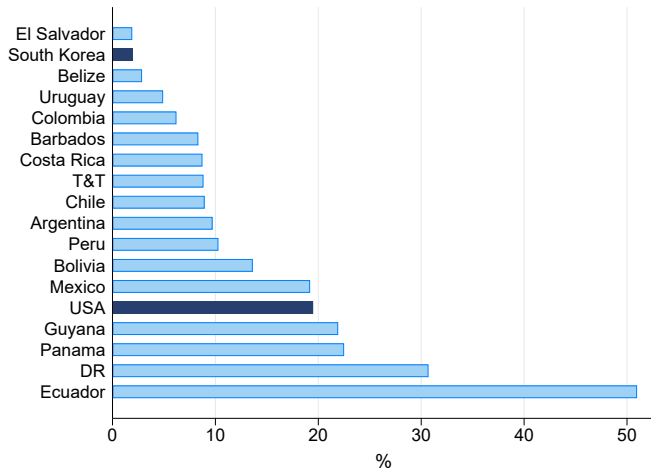
Rate of growth of deaths in selected countries



Rate of growth of deaths in top 5 LAC countries

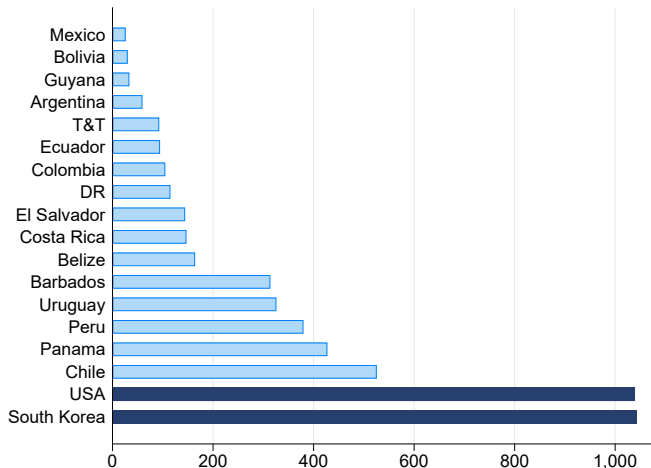


Positive tests (as % of total tests with established result) - April 15-16, 2020



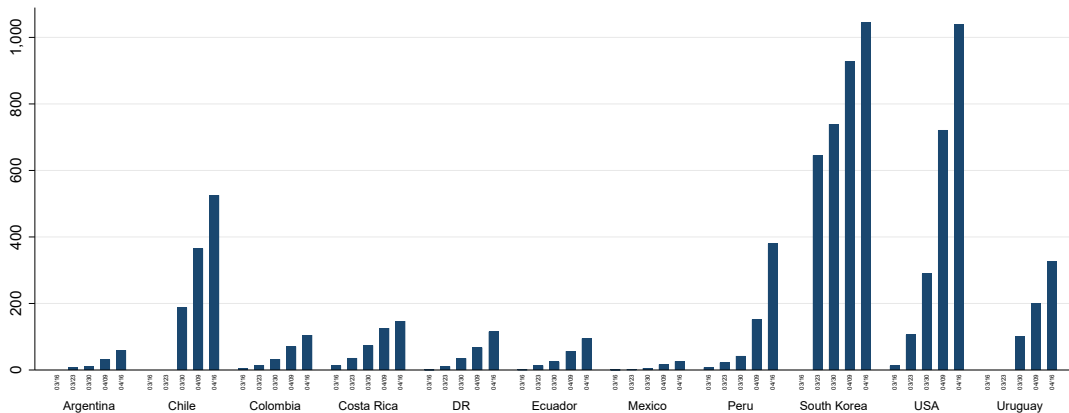
Source: SPH calculations based on data reported online by Ministries of Health

Cumulative tests with established result (positive or negative) per 100.000 inhabitants - April 15-16, 2020



Source: SPH calculations based on data reported online by Ministries of Health

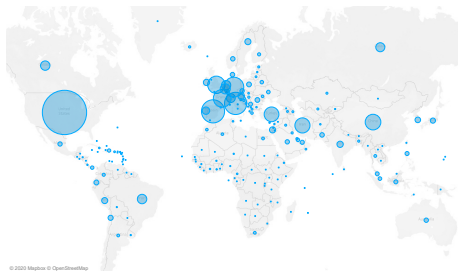
Cumulative tests with established result (positive or negative) per 100.000 inhabitants in the last four weeks



Source: SPH calculations based on data reported online by Ministries of Health

World situation update - April 17, 2020

Confirmed cases



Most affected countries

	Total cases	New cases	Total deaths	Cases per 100.000 inhabitants	Deaths per 100.000 inhabitants
World	2,114,408	84,339	145,144	28.0	1.9
United States	671,331	31,667	33,284	205.2	10.2
Spain	182,816	5,183	19,130	391.3	40.9
Italy	168,941	3,786	22,172	279.6	36.7
Germany	133,830	3,380	3,868	161.4	4.7
France	108,847	2,641	17,920	162.5	26.8
United Kingdom	103,093	4,617	13,729	155.1	20.6
China	83,754	352	4,636	6.0	0.3
Iran	77,995	1,606	4,869	95.3	6.0
Turkey	74,193	4,801	1,643	90.1	2.0
Belgium	34,809	1,236	4,857	304.8	42.5
LAC	83,331	5,256	3,911	13.3	0.6

Source: SPH calculations based on European CDC data

LAC situation Update - April 17, 2020

	Total cases	New cases	Total deaths	Cases per 100.000 inhabitants	Deaths per 100.000 inhabitants
LAC	83,331	5,256	3,911	13.3	0.6
Brazil	30,425	2,105	1,924	14.5	0.9
Peru	12,491	1,016	274	39.0	0.9
Chile	8,807	534	105	47.0	0.6
Ecuador	8,225	367	403	48.1	2.4
Mexico	6,297	450	486	5.0	0.4
Panama	4,016	265	109	96.1	2.6
Dominican Republic	3,755	141	196	35.3	1.8
Colombia	3,233	128	144	6.5	0.3
Argentina	2,699	128	115	6.1	0.3
Costa Rica	642	16	4	12.8	0.1
Uruguay	552	13	9	16.0	0.3
Bolivia	465	24	31	4.1	0.3
Honduras	442	16	41	4.6	0.4
Guatemala	214	18	7	1.2	0.0
Venezuela	204	7	9	0.7	0.0
Paraguay	174	0	8	2.5	0.1
El Salvador	164	5	6	2.6	0.1
Jamaica	143	18	5	4.9	0.2
Trinidad and Tobago	114	0	8	8.2	0.6
Barbados	75	0	5	26.2	1.7
Guyana	57	2	6	7.3	0.8
Bahamas	54	1	9	14.0	2.3
Haiti	43	2	3	0.4	0.0
Belize	18	0	2	4.7	0.5
Nicaragua	12	0	1	0.2	0.0
Suriname	10	0	1	1.7	0.2

Source: SPH calculations based on European CDC data

Data source for confirmed cases and deaths

This situational report on COVID-19 uses data compiled by the European Center for Disease and Control (ECDC). Each day, they publish data on new cases and deaths as reported by Ministries of Health and Institutes of Health and gathered by a group of epidemiologists of the ECDC. Currently, there are two other sources of data tracking the pandemic. The WHO reports daily Situational Reports. While an official source, they changed the cutoff time on March 18, 2020, which makes comparison over time problematic. In addition, we and other researchers have observed small inconsistencies and sometimes lagged reporting for some countries. John Hopkins University (JHU), also has a dashboard with worldwide data on COVID-19, which is frequently cited by journalists. JHU updates their data from multiple sources several times a day; then, they contrast their data with official sources. JHU includes data of presumptive positive cases, not only confirmed cases; hence, their estimates are somewhat higher than those from other sources. However, all three sources follow a similar trend over time for the total number of cases. We chose ECDC data because they only use official sources to update their data and constantly update and maintain the data even retrospectively.

The ECDC collects data from around 0:00 EST to 04:00 AM EST (06:00 CET to 10:00 CET) from around the world and publish it by around 07:00 EST. Hence the report date on the data reflects all data available at end of the previous day.

Confirmed cases and deaths Vs. actual cases and deaths

All data sources tracking the COVID-19 pandemic report confirmed cases and deaths. Confirmed cases, are those that have received a laboratory diagnostic confirmation. However, given that countries around the world have been struggling to expand their testing capacity and have established different criteria to determine which persons get tested, this number reflects only a subset of the total actual cases. The actual cases of COVID—19, that is, the number of persons with the disease in the population, is unknown. For instance, some countries have tested only those cases that are severe enough to be treated in emergency rooms, while people with mild symptoms similar to those of COVID—19 have been requested to self-isolate. The latter group of people would not receive a diagnostic test, and hence the confirmed cases will underestimate the actual number of cases. A similar picture emerges for reported deaths. A death caused by COVID—19 can only be established for those who received a test or for those whose cause of death can be clearly linked to the virus. This discussion is based on the University of Oxford's, Our World in Data website, which contains a more detailed explanation of the [sources](#) and the distinction between confirmed and actual [cases](#)

Data sources on testing

The data on tests performed from Latin American and Caribbean countries is obtained from what is published online by Ministries of Health. The data for the US comes from the COVID-19 Tracking Project, that from the South Korea comes from the Korean CDC. The total number of tests with a established result is the sum of those that have been determined to be positive or negative. Most countries included report both figures. Samples taken but not processed, tests with a pending result, or tests whose result was inconclusive are not included in the count. This is to reflect the actual processing capacity of diagnostic facilities, and to obtain a better estimate of positivity. To ensure comparability in cutoff times, positive results and total tests with established results are obtained from the same source to estimate the rate of positivity. Countries included in the comparison that report only total number of cases and positive cases are Chile and Trinidad & Tobago. Argentina prior to April 9th, reported negative cases (by laboratory confirmation or epidemiological investigation). Both are included in the count since it was not possible to establish the break-down. However, in April 9th they started reporting also tests performed and this is very close to the sum of positive and negative cases. The population used to estimate test per capita comes from the World Bank and is the population estimate of 2018. All data on tests are cumulative tests at the time of report.