

28 April 2020

Global 2,993,423
cases

211,398
deaths

212
countries/territories/areas

HIGHLIGHTS

In the Region of the Americas, an additional 33,481 cases and 2,268 deaths were reported in the past 24 hours, representing a 3% relative increase in both total cases and deaths compared to the previous day. Majority of the new cases (22,541) and deaths (1,322) continue to be reported from the United States of America, which represents 81% of both cumulative cases and deaths reported to date in the region.

- **Other countries reporting significant increases in newly confirmed cases** compared with the previous day are Brazil (4,613 additional cases, 7% increase), Peru (1,182 additional cases, 4% increase), Ecuador (1,018 additional cases, 4% increase), Canada (1,698 additional cases, 4% increase), and Mexico (852 additional cases, 4% increase).
- **Countries reporting the highest increase in new deaths** (excluding the US) compared with the previous day are Brazil (338 new deaths, 8% increase), Ecuador (282 deaths, 16%), and Canada (149 deaths, 6%)
- While the true fatality rate of COVID-19 will take some time to fully understand, the data we have so far indicate that **the crude case-fatality rate** (the number of reported deaths divided by the reported cases) **in the region of the Americas as of 28 April is 5.5%** (median country-specific estimate: 5.1%; range: 0.0–23.1%).
- The highest **crude CFR%** among the countries with more than 1,000 cumulative cases reported to date are **Mexico (9.2%), Ecuador (8.6%), Brazil (6.8%) and Puerto Rico (6.1%)**. See table 1

Chile reported the arrival of 200,000 PCR Kits for the detection of SARS-CoV-2, the virus that causes COVID-19. The kits were purchased in China from BGI, Asia's leading genomics company. ([minsal](#)) **The government also announced new case definitions** which includes three categories – suspected, confirmed (PCR) and Confirmed via Serology (and has developed symptoms as described in suspected case definition). ([minsal](#))

Argentina will suspend/ban all internal and international commercial flights until 1 September in order to combat COVID-19. The authorities said airlines should not be allowed to sell tickets for flights that may not go ahead in the next four months. ([BBC](#))

Global Updates

SARS-CoV-2 Household Transmission: [The Lancet: Infectious Diseases](#) published a study which analyzes SARS-CoV-2 transmission characteristics based on cases and contacts monitored in Shenzhen, China. The researchers found that household contacts of COVID-19 cases and individuals traveling with cases were both at elevated risk of infection. The secondary “attack rate” among household contacts was at least 11.2% and those between 0-39 years-old had lower risk of severe COVID-19 than adults aged 40 years and older.

COVID-19 Antibody (USA): [A sero-prevalence study](#) conducted in a sample of 3,330 people in Santa Clara county, California State, USA estimates the population prevalence of COVID-19 in Santa Clara between 2.49% (95CI 1.80-3.17%) to 4.16% (2.58-5.70%) – representing a range between 48,000 and 81,000 people infected by early April. This is 50-85-fold more than the number of confirmed cases reported from the county.

PAHO

1,213,101 (+3%)
Cases*

68,876 (+3%)
deaths*

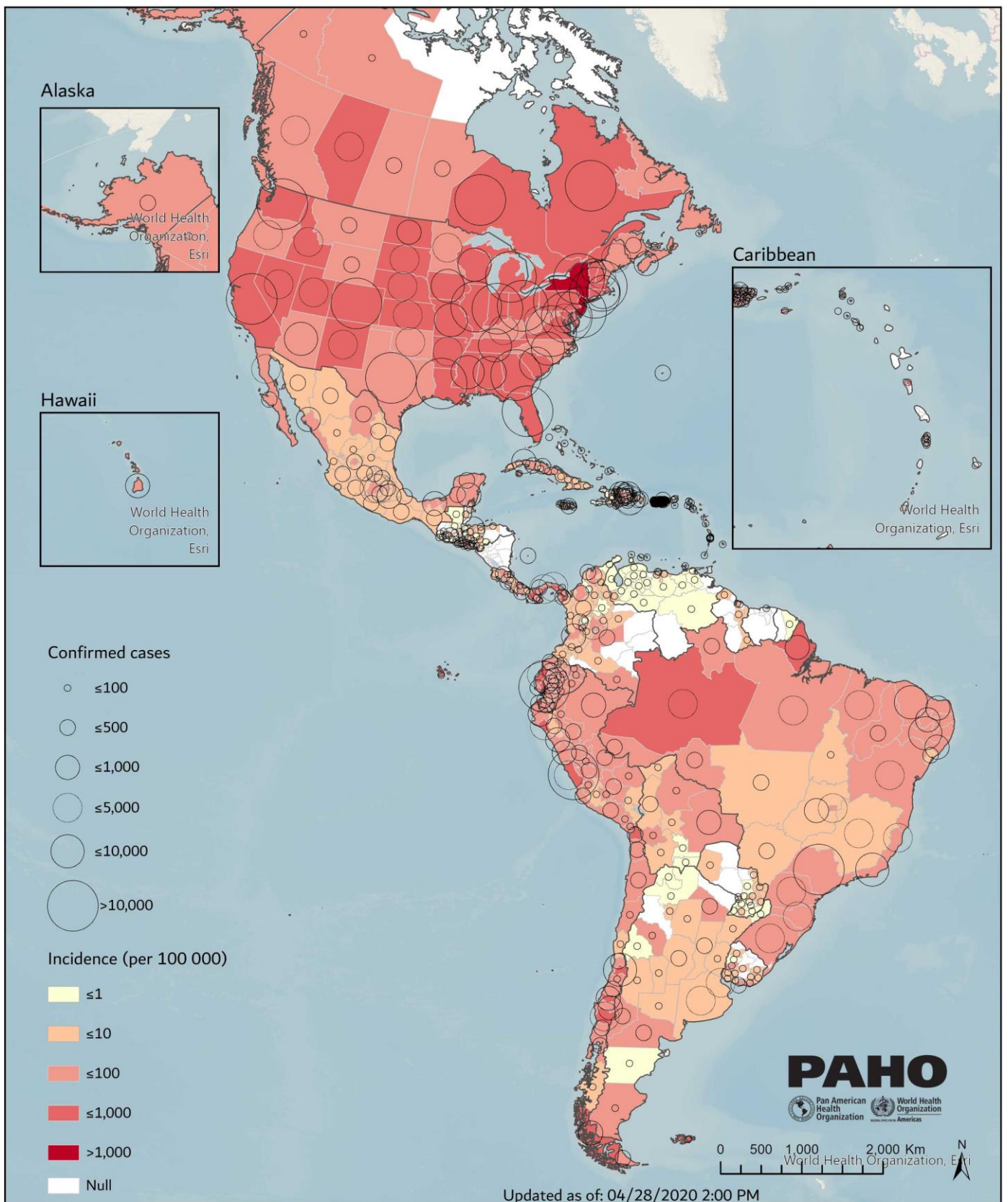
54
Countries/areas/territories

* Total includes both confirmed and probable for Ecuador (deaths), Canada (cases), Puerto Rico (deaths) and the US (probable deaths in NYC)

Table 1: Cumulative cases, deaths & crude case fatality rate (CFR%) among PAHO countries/territories with ≥ 1,000 cumulative cases.

Country/territory	Cases	Deaths	CFR(%)
USA	983,457	55,720	5.7%
Brazil	66,501	4,543	6.8%
Canada	49,025	2,766	5.6%
Peru	28,699	782	2.7%
Ecuador	24,258	2,083	8.6%
Mexico	15,529	1,434	9.2%
Chile	14,365	207	1.4%
Dominican Republic	6,416	286	4.5%
Panama	6,021	167	2.8%
Colombia	5,597	253	4.5%
Argentina	4,019	197	4.9%
Cuba	1,437	58	4.0%
Puerto Rico	1,400	86	6.1%
Bolivia	1,014	53	5.2%

Map 1. Reported number of cumulative COVID-19 cases in the Region of the Americas and corresponding incidence rate (per 100,000 persons) by country/territory. As of 28 April 2020



Data Sources: Member States Ministries of Health
Map Production: Health Emergency Information & Risk Assessment (HIM), PAHO Health Emergencies Department (PHE)
Digital cartography sources: SALB-PAHO

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Cumulative confirmed and probable COVID-19 cases reported by countries and territories in the Americas, as of 28 April 2020

Updated as of 2 PM

Sub-Region	Country/Territory	Cases		Deaths		Recovered*	% Relative Increase in Confirmed Cases	Transmission Type
		Confirmed	Probable	Confirmed	Probable			
North America	Canada	49,014	11	2,766		17,846	4%	Community transmission
	Mexico	15,529		1,434		2,288	6%	Community transmission
	United States of America (the)†‡	983,457		50,492	5,228	94,014	2%	Community transmission
	Subtotal	1,048,000	11	54,692	5,228	114,148	2%	
Central America	Belize	18		2		6	0%	Sporadic cases
	Costa Rica	697		6		287	0%	Clusters of cases
	El Salvador	345		8		97	7%	Clusters of cases
	Guatemala	530		15		49	6%	Clusters of cases
	Honduras	702		64		73	6%	Clusters of cases
	Nicaragua	13		3		7	0%	Undetermined
	Panama	6,021		167		455	4%	Community transmission
Subtotal	8,326	0	265	0	974	4%		
South America	Argentina	4,019		197		1,162	3%	Community transmission
	Bolivia	1,014		53		98	7%	Clusters of cases
	Brazil	66,501		4,543		31,142	7%	Community transmission
	Chile	14,365		207		7,710	4%	Community transmission
	Colombia	5,597		253		1,210	4%	Community transmission
	Ecuador§‡	24,258		871	1,212	2,832	4%	Community transmission
	Paraguay	230		9		95	1%	Community transmission
	Peru¶	28,699		782		8,425	4%	Community transmission
	Uruguay	620		15		386	2%	Clusters of cases
	Venezuela (Bolivarian Republic of)	329		10		142	1%	Clusters of cases
Subtotal	145,632	0	6,940	1,212	53,202	6%		
Caribbean and Atlantic Ocean Islands	Anguilla	3				1	0%	Sporadic cases
	Antigua and Barbuda	24		3		10	0%	Clusters of cases
	Aruba	100		2		73	0%	Clusters of cases
	Bahamas (the)	80		11		23	0%	Clusters of cases
	Barbados	80		6		39	1%	Clusters of cases
	Bermuda	110		6		44	1%	Clusters of cases
	Bonaire, Sint Eustatius, and Saba	6				3	0%	Sporadic cases
	Cayman Islands	70		1		10	0%	Clusters of cases
	Cuba	1,437		58		575	3%	Clusters of cases
	Curacao	16	0	1		12	0%	Sporadic cases
	Dominica	16				13	0%	Clusters of cases
	Dominican Republic (the)	6,416		286		1165	2%	Community transmission
	Falkland Islands (the) [Malvinas]	13				11	0%	Clusters of cases
	French Guiana	124		1		91	12%	Clusters of cases
	Grenada	18				7	0%	Clusters of cases
	Guadeloupe	149		11		95	0%	Clusters of cases
	Guyana	74	1	8		15	0%	Clusters of cases
	Haiti	76		6		8	3%	Clusters of cases
	Jamaica	364		7		28	19%	Clusters of cases
	Martinique	175		14		77	0%	Clusters of cases
	Montserrat	11		1		2	0%	Sporadic cases
	Puerto Rico **	1,400		54	32		1%	Clusters of cases
	Saint Barthelemy	6				6	0%	Sporadic cases
	Saint Kitts and Nevis	15				4	0%	Sporadic cases
	Saint Lucia	15				15	0%	Sporadic cases
	Saint Martin	38		3		24	0%	Sporadic cases
	Saint Pierre and Miquelon	1					0%	Sporadic cases
	Saint Vincent and the Grenadines	15				8	0%	Sporadic cases
	Sint Maarten	75	1	13		33	1%	Clusters of cases
	Suriname	10		1		7	0%	Sporadic cases
Trinidad and Tobago	116		8		59	0%	Sporadic cases	
Turks and Caicos	12		1		5	0%	Sporadic cases	
Virgin Islands (UK)	6		1		2	0%	Sporadic cases	
Virgin Islands (US)	59		4		51	0%	Clusters of cases	
Subtotal	11,130	2	507	32	2,516	2%		
Total	1,213,088	13	62,404	6,472	170,840	3%		

*Recovered counts as indicated by reporting Member States

†Data reported by state/district/territory public health authorities. Confirmed case and death totals may include a small proportion of probable cases and deaths due to differences in reporting. Excludes counts for Guam, Commonwealth of the Northern Marianas, Puerto Rico, and the United States Virgin Islands

‡Probable deaths are those reported and defined by New York City, available at: <https://on.nyc.gov/2RloJdU>

§Probable deaths as defined by the Ecuador Ministry of Public Health, available at: <https://bit.ly/2RZtqjR>

‡‡Recovered counts include both those defined by the Ecuador Ministry of Public Health as discharged from the hospital and recovered cases

¶Total confirmed cases reported as per Peru Ministry of Health, of which 13,132 cases tested positive by RT-PCR and the remaining 15,567 cases tested positive by rapid diagnostic tests (RDTs); however, to date, these RDTs are not recommended for use by WHO

|| Total cases reported as per the Puerto Rico Department of Health (DoH), of which 898 cases tested positive by RT-PCR and the remaining 502 cases tested positive by serological tests.

**Probable deaths as defined by the Puerto Rico DoH, available at: <https://bit.ly/2WjksQ>

Note: WHO recommends using the following categories to describe **transmission patterns** at national and sub-national levels (wherever possible) to guide decisions for preparedness, readiness and response activities.

Category number	Category name	Definition
1	No cases	Countries/territories/areas with no cases
2	Sporadic cases	Countries/territories/areas with one or more cases, imported or locally detected
3	Clusters of cases	Countries/territories/areas experiencing cases, clustered in time, geographic location and/or by common exposures
4	Community transmission	Countries/area/territories experiencing larger outbreaks of local transmission defined through an assessment of factors including, but not limited to: <ul style="list-style-type: none"> - Large numbers of cases not linkable to transmission chains - Large numbers of cases from sentinel lab surveillance - Multiple unrelated clusters in several areas of the country/territory/area