

Social determinants of health, equity and the COVID-19 pandemic in the Americas

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Director EIH

May 18, 2021.



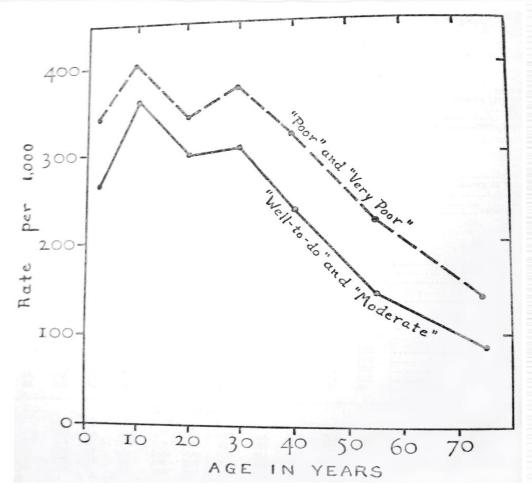
Content

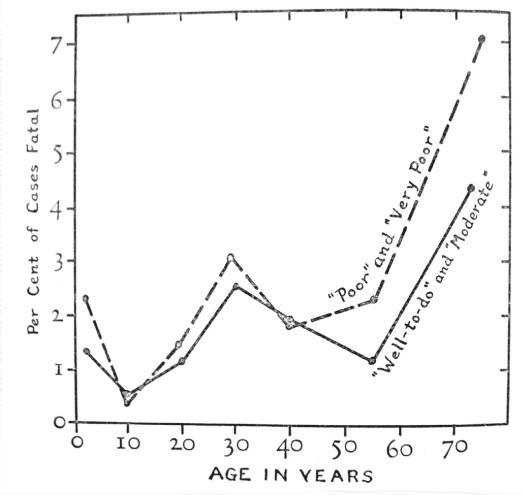
- 1. Pandemics are nor socially neutral
- 2. The Social Determinants of Health
- 3. Persistent Inequality
- 4. Health inequalities and Covid19
- 5. Covid 19 economic impact
- 6. The road to 2030 is now a postpandemic road



Pandemics are not socially neutral events







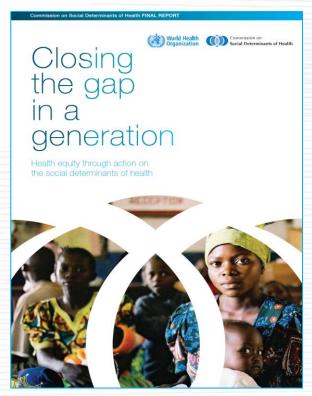
Sydenstricker E. The incidence of influenza among persons of different socioeconomic status during the epidemic of 1918. Public Health Reports 1931;46(4):154-170

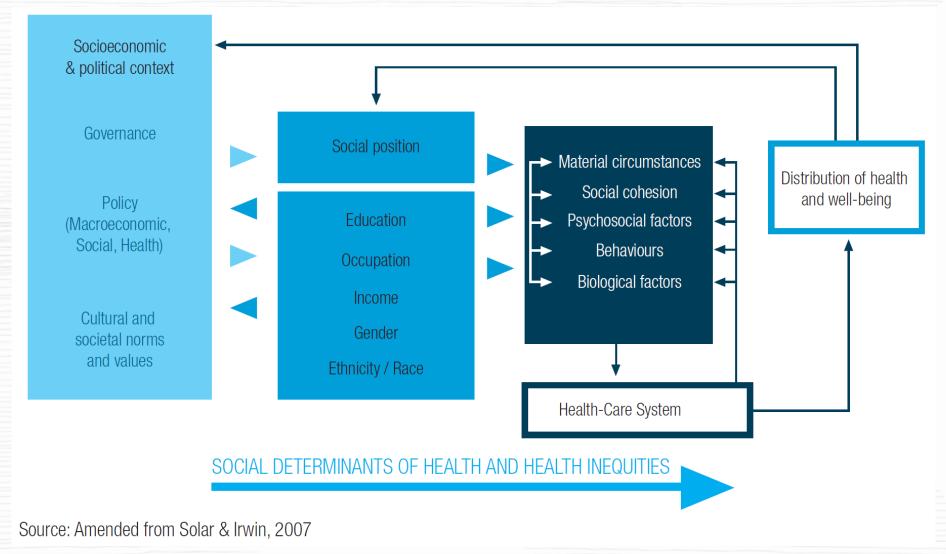






The social determinants of health conceptual framework





Final Report of the Commission of the World Health Organization on Social Determinants of Health; Geneva: 2008



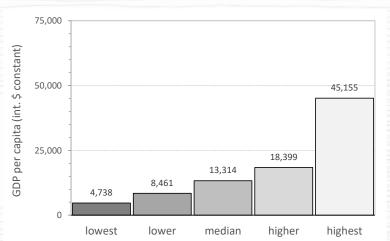




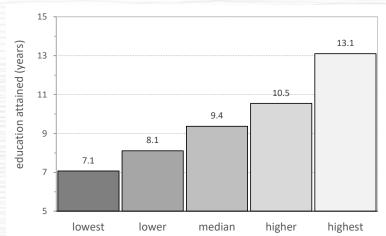
2000

Persistent inequality in the three dimensions of sustainable development

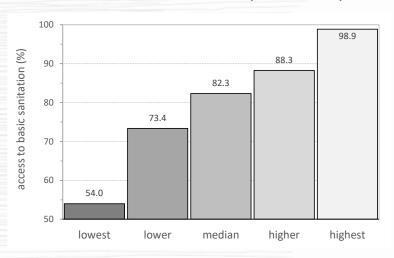




social (education)

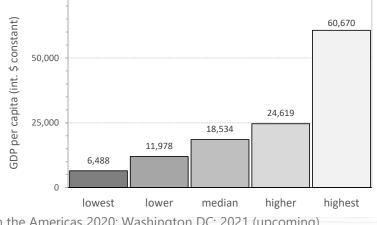


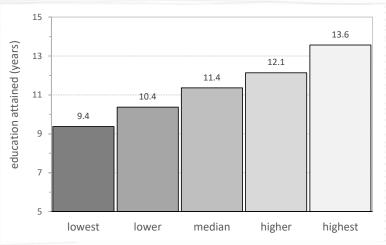
environmental (sanitation)

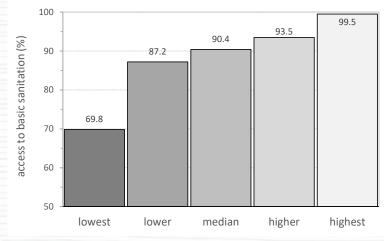




75,000







PAHO Health in the Americas 2020; Washington DC: 2021 (upcoming)





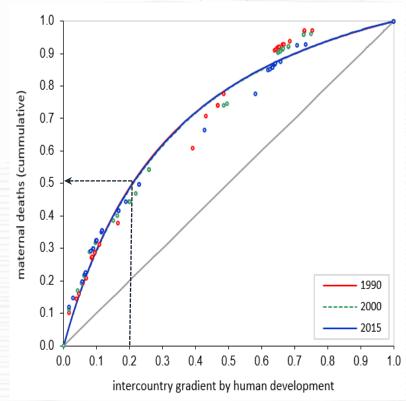


SDG-3 protopandemic precursors in the Americas

successful improvements in regional averages - no sizable changes in inequalities

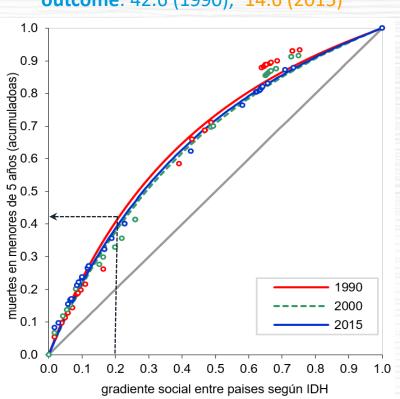
maternal mortality (MDG 5)

target: reduce 3/4 from 1990 to 2015 **outcome**: 101.8 (1990); 51.7 (2015)



child mortality (MDG 4)

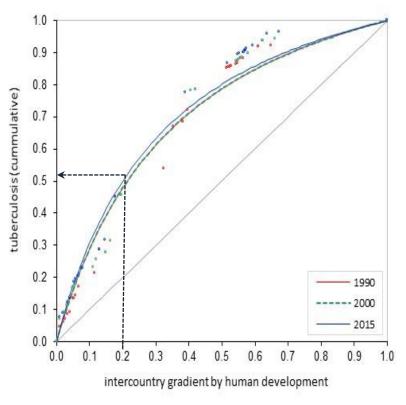
target: reduce 2/3 from 1990 to 2015 **outcome**: 42.6 (1990); 14.6 (2015)



tuberculosis incidence (MDG 6)

target: curb the incidence

outcome: 55.7 (1990); 28.4 (2015)



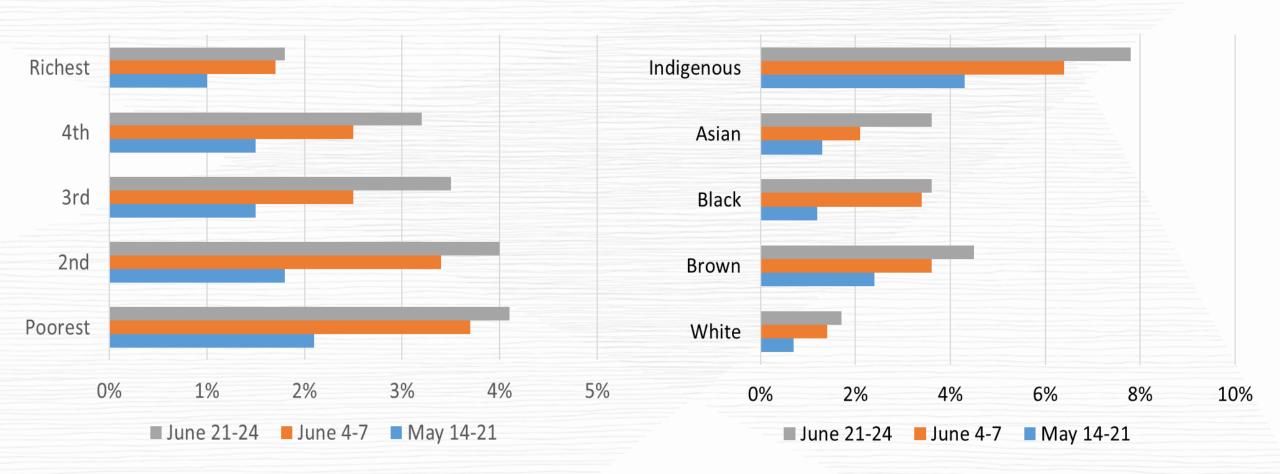
Pan American Health Organization. Health in the Americas+, 2017 Edition. PAHO: Washington DC, 2017.







Inequality gradients in SARS-CoV-2 prevalence, Brazil; May-June 2020



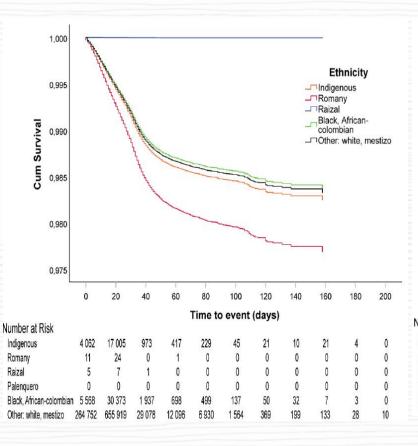
Victora C. Epidemiology and Inequalities in Brazil: the EpiCOVID19 Study. PAHO Webinar 1 on COVID-19, Health-related SDGs and Equity. July 20, 2020.

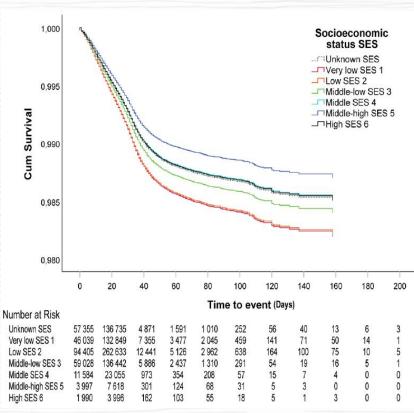


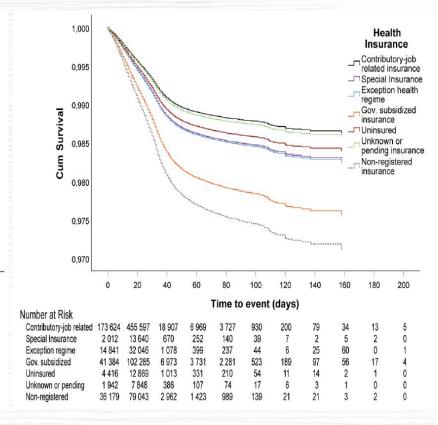




Survival curves for covid-19 in Colombia by determinants







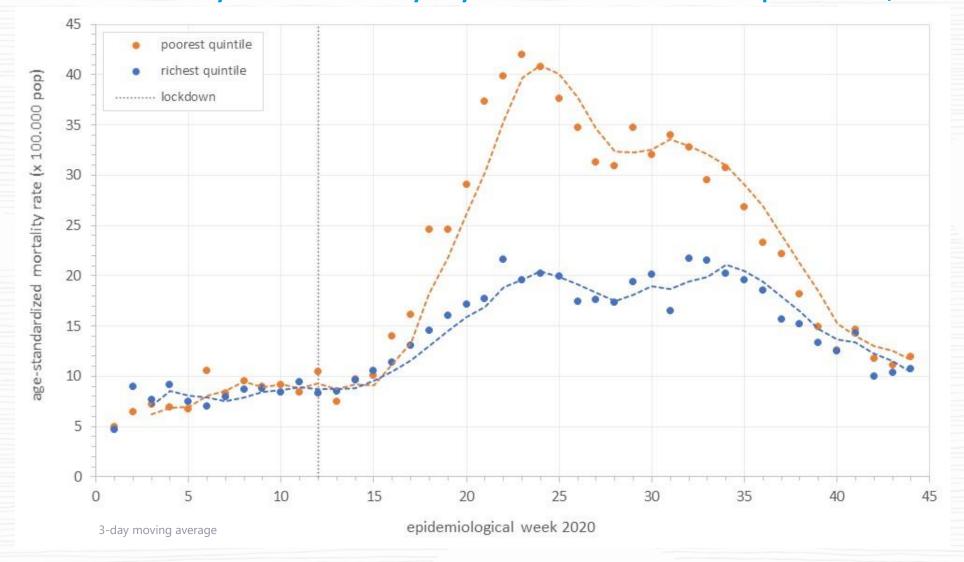
Cifuentes MP et al. J Epidemiol Community Health 2021 ahead of print [doi:10.1136/jech-2020-216275]







Excess mortality in Lima City by extreme wealth quintiles, 2020

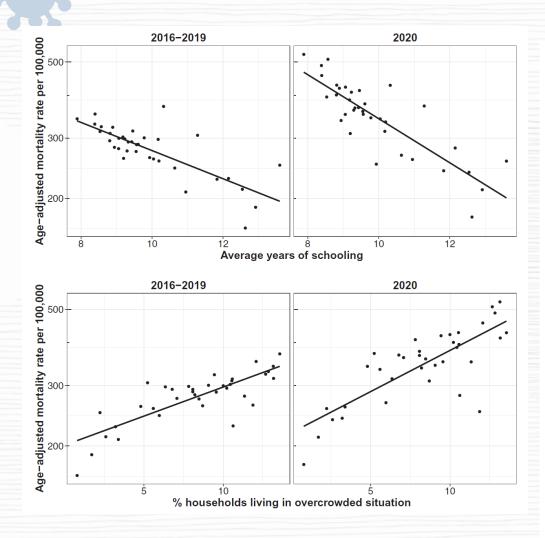


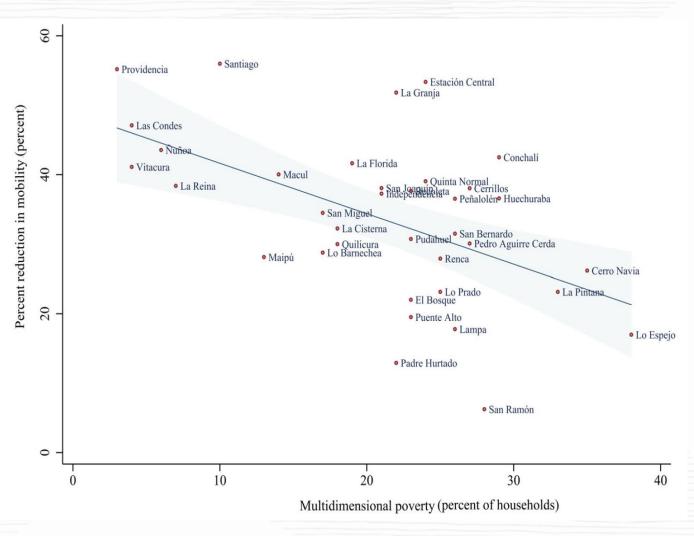
Mujica OJ, Pachas PE. Social inequalities in mortality during the COVID-19 pandemic in Lima, Peru [Spanish]. Rev Peru Med Exp Salud Publica 2021;38(1). doi: https://doi.org/10.17843/rpmesp.2021.381.6740





Social inequalities and covid-19 in Santiago de Chile City





Bilal U et al. Int J Epidemiol 2021;1-3 [doi: 10.1093/ije/dyab007]

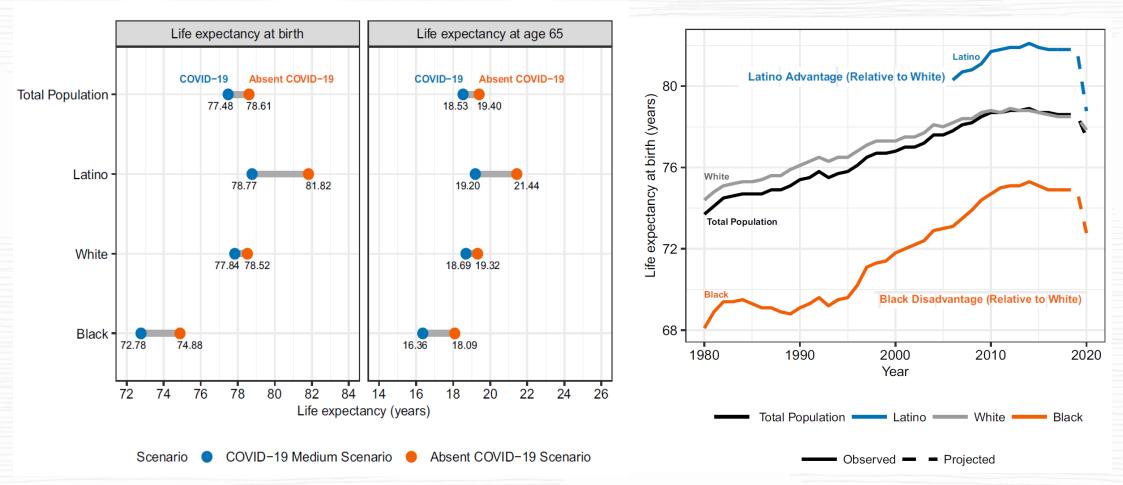
Gil M et al. Bull Latin American Research 2020;39(S1):28-34.







Reductions in Life Expectancy due to COVID-19, USA 2020



Source: Andrasfay T, Goldman N. Proc US Nat Acad Sciences 2021 [https://doi.org/10.1073/pnas.2014746118]

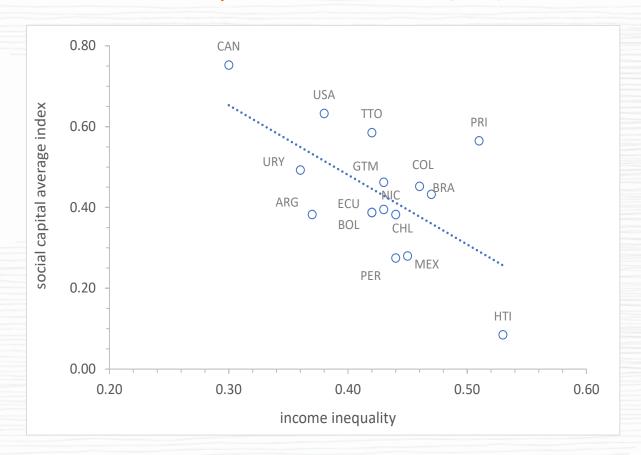


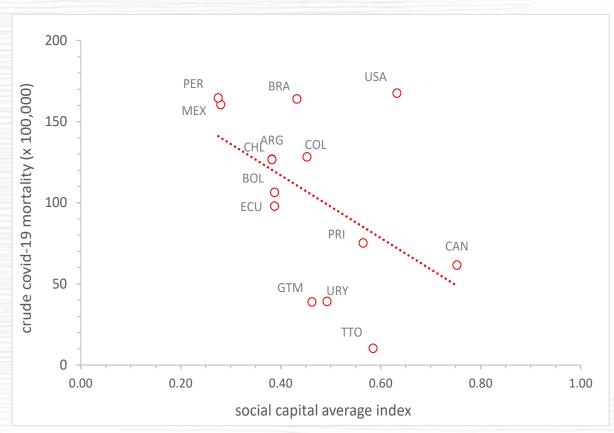




Social capital, the determinants of health, and covid-19

social capital = social trust + group affiliation + civic engagement + confidence in state institutions





PAHO/EIH, based on data from: Elgar FJ, Stefaniak A, Wohl MJA. The trouble with trust. Soc Sci Med 2020 https://doi.org/10.1016/j.socscimed.2020.113365

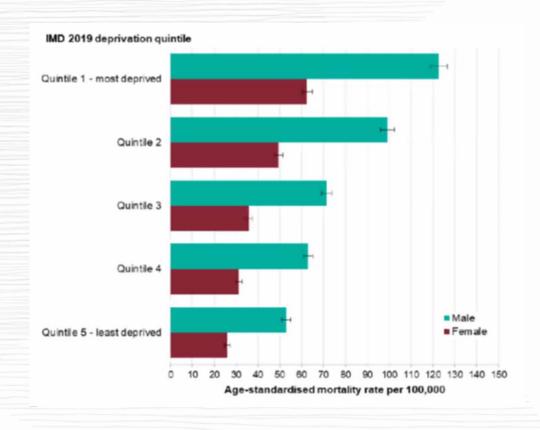






COVID-19, inequalities, and SDH: WHO systematic review (preliminary)¹³

- 46 studies (mostly ecological, mostly from North America and Western Europe)
- 44 studies show that disadvantaged groups are more negatively impacted through:
 - higher COVID-19 infection rates
 - worse COVID-19 severity
 - lack of access to treatment
 - higher COVID-19 mortality rates
- Health gradients by employment category (higher infection rates for employees than for managers)
- Health gradients by race/ethnicity identity (higher infection rates in minorities)



Valentine N. Overview: COVID-19 Impacts. WHO Webinar on Inequities in COVID-19 infection and mortality. November 4, 2020 https://bit.ly/3nkRXwX







COVID-19, inequalities, and SDH: WHO systematic review (preliminary)

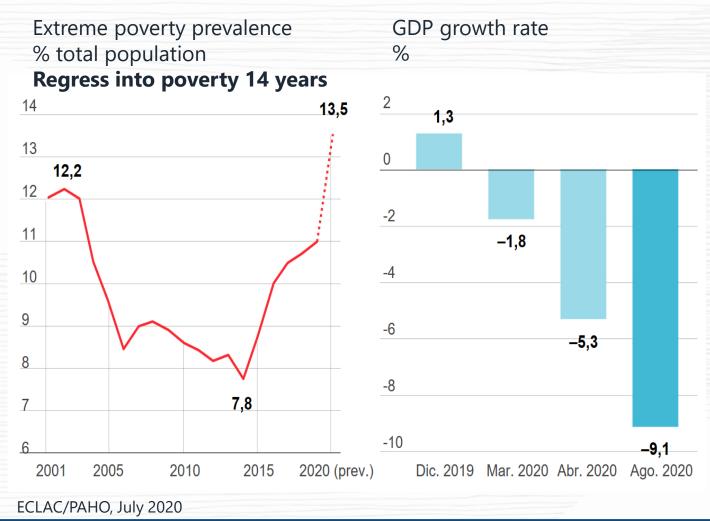
Negative impacts associated to:

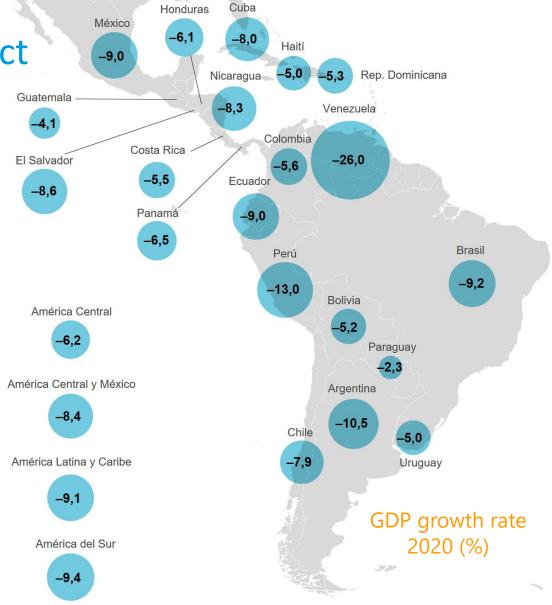
- Poverty and reliance on daily wages, or the informal economy
- Weak social assistance programs
- Deprived housing, deprived public areas and poor services
 - Housing and public area crowding
 - Poor sanitation and lack of hygiene facilities
- Poor health coverage and poor access to health care
- Poorly paid and poorly supported working conditions
- Poor/inappropriate information
- Living and working conditions requiring public transport / higher mobility

- 153/200 countries had offered cash transfers
- 94/200 offered financial obligations support
- 70% of Q1 in LMIC one member lost job

Valentine N. Overview: COVID-19 Impacts. WHO Webinar on Inequities in COVID-19 infection and mortality. November 4, 2020 https://bit.ly/3nkRXwX

COVID-19 immediate economic impact











COVID-19 immediate economic impact on income inequality

variation	country
Between 1.0% and 1.9%	Guatemala
	Paraguay
Between 2.0% and 2.9%	Honduras
	Nicaragua
Between 3.0% and 3.9%	Bolivia
	Costa Rica
	Panama
	Dominican Republic
Between 4.0% and 4.9%	Colombia
	Uruguay
Between 5.0% and 5.9%	Brazil
	Chile
	El Salvador
	Mexico
6.0% and more	Argentina
	Ecuador
	Peru

- The Gini index for the region would increase by 4.9 percentage points from 2019 to 2020.
- The increase would vary by country between 1% and 8%.
- Eight out of 10 people in the region (491 million people) will live with incomes below 3 poverty lines: \$ 500 per month.

ECLAC, July 2020: projected variation in the Gini Index in 2020; Latin America (17 countries)







COVID-19 and inequalities in the social determinants of health: reciprocal impacts

SARS-CoV-2 transmission dynamics unveils and exacerbates social inequalities:

Neither the exposure nor the susceptibility to the infectious agent is homogeneously distributed in the population; they disproportionately concentrate in socially disadvantaged, vulnerable, and excluded groups

Underlying social inequalities fuel SARS-CoV-2 transmission dynamics:

Lack of access to health care and to quality information in the socially disadvantaged leave them more exposed and more susceptible to the infectious agent

The short-, medium- and long-term consequences of the COVID-19 inequality syndemic are structural, multidimensional, and intersectional: immunization, infant mortality, maternal mortality, nutrition, fertility, domestic violence, mental health, chronic conditions, discrimination, alienation, and other numerous and unfairly distributed health and social spill over effects....

PAHO Seminar on Covid-19, SDG-health related Targets, and Equity; Washington DC: August 19, 2020.







postscript: the road to 2030 is now a post pandemic road...

- ✓ The sense of urgency to address and eliminate unfair inequalities in the opportunities for health and well-being on the road to universal health and sustainable development has been suddenly fuelled by the emergence of the new coronavirus pandemic, which has dramatically exposed and amplified social inequalities and, therefore, health inequalities.
- ✓ The road to 2030 is now a post-pandemic road and, consequently, society as a whole should review and rethink its priorities toward building resilient systems to combat future pandemics.
- ✓ Health policy makers must recognize the primacy of the principle of equity: equity is a societal value with a central role in social decision-making, the conduct of civilized life, the identity of peoples and institutions, and the promotion of population health.
- ✓ In this post-pandemic future, health policy accountability on pro-equity decisions and actions will be better informed if guided by explicit measurable goals for health inequality reduction/elimination.

Sanhueza A, Espinosa I, Mujica OJ, Barbosa J. Leaving no one behind: a methodology for SDG-related health inequality reduction target setting. Pan Am J Public Health 2020;44:e155

