

7.96
BILLION
WORLD POPULATION2.3
BIRTHS
GLOBAL TOTAL
FERTILITY RATE14.9
MILLION
EXCESS DEATHS DUE TO
THE COVID-19 PANDEMIC
2020 AND 2021 TOTAL*

WORLD POPULATION DATA SHEET

2022

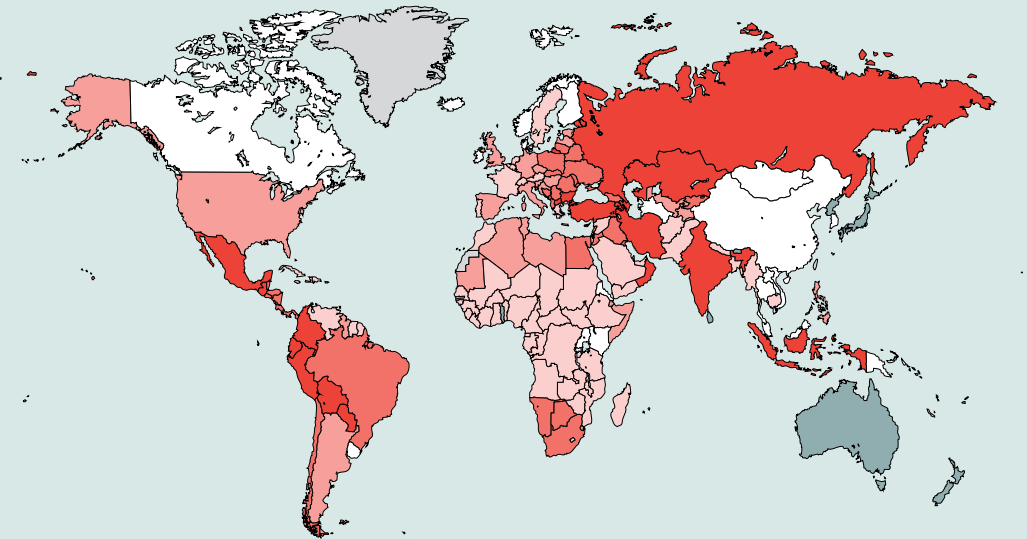
SPECIAL FOCUS ON THE
DEMOGRAPHIC IMPACTS OF COVID-19

The COVID-19 Pandemic Has Fueled Excess Deaths

Excess deaths refers to deaths occurring directly or indirectly because of the pandemic, including deaths from COVID-19 itself and from delayed or unavailable health care. It also accounts for decreases in deaths from other causes, such as traffic accidents and influenza, due to changes in people's behaviors. Excess deaths vary across regions and countries, reflecting variations in population age structures, health infrastructures, COVID-19 containment measures, including vaccination rates, and social and economic conditions.

Excess Deaths Due to the Pandemic as a Percent of Total Deaths, 2020-2021

◊ 0% ◊ 0% to 4% ◊ 5% to 9% ◊ 10% to 14% ◊ 15% to 19% ◊ ≥20% No data

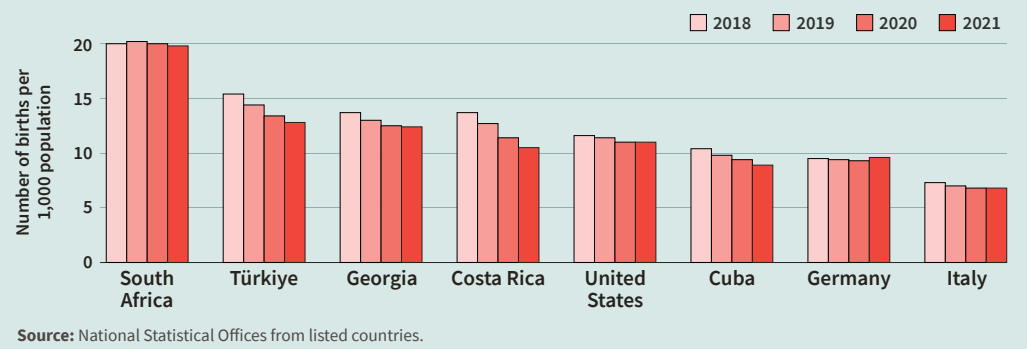


Notes: Data reflect 2020-2021 annual average.
Source: World Health Organization, Global Excess Deaths Associated With COVID-19 (modelled estimates) data set.

Pandemic Effects on Fertility Are Largely Limited

High-income countries like Germany and the United States mostly saw small declines in births in 2020 that rebounded or stabilized in 2021. Low- and middle-income countries such as Costa Rica and Türkiye continued to see births decline, following pre-pandemic trends. These data suggest the pandemic's impact on fertility has generally been limited and temporary.

Births per 1,000 Population, 2018-2021



Source: National Statistical Offices from listed countries.

Notes

- The 14.9 million total excess deaths due to the COVID-19 pandemic in 2020 and 2021 are based on an annual average of 7.46 million.
- Infant deaths per 1,000 live births. Rates shown with decimals indicate national statistics reported as completely registered, while those with no decimals are estimates from the sources cited on the reverse. Rates shown in *italics* are based on fewer than 50 annual infant deaths, so the figures are estimated from an average of the previous three years.
- Lifetime births per woman (see Definitions on back for more information).
- Data prior to 2016 are shown in *italics*.
- Percent of married or in-united women with a need for family planning who are using modern methods.
- In current international dollars. Data prior to 2021 are shown in *italics*.
- Estimated deaths directly and indirectly associated with COVID-19 pandemic (see Definitions for more information). Negative values indicate the number of deaths averted due to lower risks of death from causes such as traffic accidents and influenza because of changes in people's behaviors.
- South America.
- Percent of the population that countries, territories, and regions report as being fully vaccinated as of mid-2022, according to their definition of the term.
- Data refer to sexually active women, ever-married women, or all women. Data for Canada and Portugal refer to sexually active non-pregnant women and non-pregnant women, respectively.
- Special Administrative Region.
- Kosovo declared independence from Serbia on Feb. 17, 2020. Serbia has not recognized Kosovo's independence.

(—) Indicates data unavailable or inapplicable.

Data table prepared by PRB demographers Toshiko Kameda, Charlotte Greenbaum, and Carl Haub.

Population (millions)	Births per 1,000 Population	Deaths per 1,000 Population	Rate of Natural Increase (%)	Net Migration Rate	Population (millions)		Infant Mortality Rate ^a	Total Fertility Rate ^b	Percent of Population		Family Planning Among Married Women Ages 15-49 ^c				Life Expectancy at Birth (Years)		Population Ages 15-49 With HIV/AIDS (%)				Urban Population (%)	Population per km ² of Arable Land	GNI per Capita, PPP ^d	Excess Deaths Due to COVID-19 ^e				Population Fully Vaccinated Against COVID-19 (%)
					mid-2025	mid-2050			Ages <15	Ages 65+	Using All Methods (%)	Using Modern Methods (%)	Demand Satisfied by Modern Methods (%) ^f	Total	Males	Females	Males	Females	Males	Females				No. of Excess Deaths per 100,000 Population	Excess Deaths as % of Total Deaths	Excess Deaths as % of Total Deaths		
					mid-2025	mid-2050			Ages <15	Ages 65+	Using All Methods (%)	Using Modern Methods (%)	Demand Satisfied by Modern Methods (%) ^f	Total	Males	Females	Males	Females	Males	Females				No. of Excess Deaths per 100,000 Population	Excess Deaths as % of Total Deaths	Excess Deaths as % of Total Deaths		
7,963	17	8	0.9	—	8,899	9,752	29	2.3	25	10	63	55	—	72	70	75	0.6	0.8	57	2,168	16,625	1,455,097	96	12	62			
1,270	10	12	-0.2	2	1,298	1,297	4	1.5	16	20	67	57	—	78	75	82	—	—	79	685	50,865	1,824,632	142	11	70			
6,694	19	7	1.2	-0	7,601	8,454	31	2.4	27	8	62	55	—	71	69	73	—	1.1	53	2,450	12,199	5,721,468	87	11	60			
1,126	31	8	2.4	-0	1,489	1,935	43	4.0	29	4	39	55	54	64	62	67	1.0	1.7	35	1,004	3,399	5,037,787	47	7	—			
1,241	10	10	0.0	2	1,289	1,310	4	1.5	16	19	66	—	—	80	77	83	—	—	81	8,430	55,066	1,127,703	90	9	74			
5,953	17	8	0.9	-0	6,553	7,030	27	2.1	25	9	65	58	—	72	69	74	—	—	54	1,036	12,909	5,985,461	102	13	64			
2,527	10	8	0.2	-0	2,588	2,555	10	1.5	20	13	77	71	—	76	73	79	—	—	70	984	19,622	2,053,784	82	10	77			
3,427	22	7	1.5	-0	3,964	4,475	34	2.6	29	6	57	49	69	68	67	70	0.5	0.7	43	1,074	7,904	3,931,678	118	15	54			
738	35	8	2.7	-0	1,020	1,372	46	4.6	42	3	34	30	47	62	60	65	1.1	1.9	34	754	2,135	330,795	47	7	17			
1,419	33	9	2.4	-0	1,891	2,478	47	4.3	40	3	36	32	51	63	61	64	1.8	3.4	44	894	5,212	820,657	61	8	20			
251	23	6	1.6	-0	301	356	22	2.8	33	5	50	46	65	73	71	75	0.1	0.1	53	1,590	10,594	212,559	87	13	31			
44.9	22	5	1.7	-0	52.4	60.0	19	2.9	31	6	54	45	66	76	75	78	<0.1	<0.1	74	598	11,750	34,794	79	14	16			
103.5	21	7	1.4	1	122.7	144.8	16	2.5	34	4	59	57	80	75	73	76	<0.1	<0.1	44	3,077	12,910	125,551	122	18	35			
6.8	17	6	1.1	-0	7.7	8.5	9	2.4	28	5	28	16	24	72	70	75	0.2	0.1	81	396	23,550	3,931	57	12	17			
36.7	17	5	1.2	-1	40.7	43.6	15	2.1	25	8	71	59	72	74	72	76	<0.1	<0.1	64	477	8,000	11,374	47	6	63			
46.9	34	7	2.7	-0	63.6	84.5	39	4.5	41	4	22	12	30	65	63	68	0.2	0.1	36	223	4,000	19,000	43	7	9			
11.8	16	8	0.8	-1	12.9	13.7	14	2.1	25	9	51	44	63	74	71	77	<0.1	<0.1	70	456	11,270	11,911	100	14	54			
0.6	17	6	1.1	6	0.7	0.9	26	2.3	24	6	—	—	—	71	69	73	—	—	87	14,400	—	—	—	—	—			
1,168	35	9	2.6	-0	1,591	2,122	50	4.6	42	3	33	29	47	60	58	62	2.2	4.2	42	739	3,993	608,098	55	7	17			
430	36	10	2.5	-0	583	773	60	4.9	43	3	20	16	37	57	57	58	0.8	1.7	48	627	4,397	188,016	46	6	12			
13.4	36	9	2.7	-0	18.5	25.3	54	4.9	42	3	16	12	26	60	58	62	0.5	1.1	49	477	3,750	5,927	48	6	22			
22.7	35	9	2.6	-1	30.8	40.5	47	4.7	44	3	35	32	56	60	58	62	0.5	0.8	31	378	2,330	11,080	52	7	7			
0.6	15	5	0.9	-2	0.7	0.7	11	1.8	26	6	56	55	—	74	70	78	0.6	0.6	74	1,186	6,890	464	83	13	—			
28.2	34	9	2.5	-1	38.3	51.4	57	4.4	41	2	28	22	41	59	57	60	1.2	2.7	52	805	5,760	12,717	48	6	21			
2.7	33	8	2.6	-1	3.6	4.7	31	4.7	43	2	19	17	40	62	61	64	1.3	2.1	63	615	2,370	1,452	59	9	15			
33.5	28	8	2.0	-0	42.2	52.2	32	3.6	37	4	31	25	—	64	62	66	1.0	2.4	58	1,332	6,020	10,454	33	5	26			
13.9	34	10	2.4	-0	18.4	23.7	64	4.4	42	3	11	11	32	59	58	60	0.9	2.0	37	447	2,540	6,265	47	5	26			
2.1	31	9	2.2	-1	2.7	3.4	51	4.0	40	3	21	20	48	60	57	62	2.2	4.0	45	702	2,060	1,421	71	8	17			
5.3	31	9	2.2	-2	6.9	8.9	58	4.1	41	3	25	24	41	61	59	62	0.8	1.4	53	1,061	1,440	2,022	39	5	28			
6.0	42	9	3.2	-1	33.1	47.4	55	6.0	47	2	17	16	40	59	58	60	0.7	0.9	45	352	2,370	13,656	66	8	6			
4.7	39	7	3.2	1	6.8	9.6	41	5.2	42	3	14	13	28	65	63	66	0.3	0.3	56	1,185	5,530	2,474	74	12	29			
26.2	45	8	3.7	0	42.0	67.0	40	6.7	49	2	14	13	35	62	61	63	0.1	0.2	17	148	1,330	17,170	70	12	6			
218.5	37	12	2.4	-0	291.6	377.5	72	5.1	43	3	17	12	34	54	53	54	0.9	1.8	53	624	5,250	9,321	45	5	8			
17.9	32	5	2.7	-1	23.9	30.6	33	4.4	41	3	27	26	53	70	68	71	0.3	0.4	49	560	3,960	8,252	49	9	9			
8.7	33	10	2.3	2	11.4	14.4	75	3.9	39	3	21	21	45	58	57	60	1.0	1.8	43	549	1,750	3,943	49	6	21			
8.8	32	8	2.4	-0	11.7	15.5	44	4.3	40	3	24	21	37	62	61	62	1.2	2.5	43	334	2,390	3,495	-42	-7	19			
473	33	7	2.6	-0	643	851	41	4.3	41	3	46	41	—	63	61	66	2.3	4.1	29	904	2,692	184,612	41	6	20			
12.9	35	7	2.7	-1	17.8	24.2	37	5.1	46	2	29	23	39	62	60	64	0.7	1.2	14	1,074	800	4,669	39	6	0			
0.8	29	9	2.1	-2	1.0	1.2	46	4.0	38	4	19	14	27	63	61	66	<0.1	<0.1	30	1,268	3,260	362	41	7	35			
1.1	22	9	1.3	1	1.3	1.5	39	2.8	30	5	19	18	—	62	60	65	0.6	0.9	78	56,042	5,740	884	89	11	15			
3.7	29	7	2.2	-4	4.7	6.0	29	3.9	39	4	8	7	20	67	64	69	0.4	0.6	42	534	—	1,207	34	4	—			
123.4	32	7	2.6	-0	165.7	214.8	47	4.2	40	3	41	41	—	65	62	68	0.6	1.1	22	762	2,590	51,748	44	8	19			
54.0	28	8	2.0	-1	69.0	85.2	30	3.3	38	3	65	61	77	61	59	64	2.6	5.4	28	932	4,950	6,176	11	2	17			
29.6	35	7	2.8	-0	40.9	56.2	47	4.3	39	3	50	43	66	65	63	68	0.3	0.4	39	988	1,600	12,791	46	7	4			
20.4	33	7	2.6	-0	28.0	37.2	28	3.9	43	3	66	65	80	63	59	66	5.7	9.4	18	567	1,630	8,557	44	7	8			
1.3	10	11	0.0	-1	1.3	1.2	13.8	6.4	11	17	12	64	32	42	71	74	1.5	1.2	41	1,253	1,441	25,530	471	37	4			
0.3	34	3	1.1	7	0.4	0.6	4	4.4	44	3	—	—	—	73	73	74	—	—	46	1,768	—	—	—	—	—			
33.0	37	9	2.8	-0	46.3	63.0	52	4.6	44	3	27	25	50	59	56	62	—	—	38	584	1,310	21,366	67	7	68			
0.9	16	7	0.9	-6	1.0	1.0	7	2.5	12	14	—	—	—	80	77	83	—	—	100	2,569	—	—	—	—	—			
13.8	30	6	2.4	-0	18.0	23.0	29	3.8	38	3	64	58	75	66	64	68	1.7	3.0	18	1,196	2,440	2,701	21	4	66			
0.1	17	9	0.8	0	0.1	0.1	10.8	2.5	12	12	—	—	—	74	71	76	—	—	58	66,742	28,050	—	4	4	82			
17.6	44	12	3.2	-1	25.6	36.5	71	6.3	47	3	7	1	2	55	53	57	<0.1	<0.1	47	1,600	1,300	17,731	110	10	10			
10.9	29	11	1.8	-3	13.9	17.5	64	4.5	44	3	—	5 ^f	—	55	53	56	1.5	2.6	21	456	—	4,583	41	5	9			
65.5	36	6	3.0	-0	93.1	129.9	34	4.7	43	3	38	32	53	66	64	68	3.2	5.7	36	485	2,920	20,015	33	6	7			
47.2	37	6	3.1	1	65.6	87.6	30	4.6	45	2	50	43	60	63	60	65	3.8	6.6	26	685	3,600	10,260	22	4	24			
20.0	34	7	2.7	-0	27.8	37.5	42	4.3	2	50	48	69	62	59	65	7.7	13.8	45	527	3,300	11,777	63	9	23				
16.3	31	9	2.1	-2	21.0	26.4	37	3.5	41	3	67	66	85	59	56	62	8.7	14.4	32	408	2,380	9,316	62	7	31			
196	40	9	3.1	-1	285	406	52	5.6	45	3	22	15	29	59	57	62	1.0	2.0	51	665	2,814	104,651	58	7	—			
35.6	39	8	3.1	1	51.3	72.3	48	5.3	45	3	14	13	24	62	59	65	1.0	2.										



PRB promotes and supports evidence-based policies, practices, and decision-making to improve the health and well-being of people throughout the world.

The World Population Data Sheet, produced by PRB annually since 1962, is both a reference document and an educational tool. With two dozen critical **POPULATION, HEALTH, AND ENVIRONMENT** indicators carefully researched, developed, and vetted by PRB demographers and analysts for more than 200 countries and territories, it provides a snapshot of the demographic trends reshaping our world today and previews what we can expect in the future.

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Notes

The Data Sheet lists all geopolitical entities with populations of 150,000 or more and all members of the United Nations, including sovereign states, dependencies, overseas departments, and some territories whose status or boundaries may be undetermined or in dispute. **More-developed**, **less-developed**, and **least-developed** regions follow the UN classification (<https://www.un.org/ohrls/content/least-developed-countries>). **High-income**, **middle-income** (composed of **upper middle-income** and **lower middle-income**), and **low-income** economies follow the World Bank classification based on GNI per capita (<https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups>).

World and Regional Totals: Regional population totals are independently rounded and include small countries or areas not shown. Regional and world rates and percentages are weighted averages of countries for which data are available. Regional averages are shown when data or estimates are available for at least three-quarters of the region's population.

World Population Data Sheets from different years **should not be used as a time series**. Fluctuations in values from year to year often reflect revisions based on new data or estimates rather than actual changes in levels.

Sources

The rates and figures are primarily compiled from the following sources: online databases, reports, and other materials from national statistical offices and regional organizations; demographic and family planning surveys such as the Demographic and Health Surveys (DHS), Multiple Indicator Cluster Surveys (MICS), and Performance Monitoring for Action (PMA) Surveys; the UN *Demographic Yearbook 2020* and *Population and Vital Statistics Report* of the UN Statistics Division; *World Population Prospects: The 2022 Revision*, *World Contraceptive Use*

2021, and *World Urbanization Prospects: The 2018 Revision* of the UN Population Division; the International Data Base of the International Programs Center, U.S. Census Bureau; *World Development Indicators* online database of the World Bank; Global Excess Deaths Associated With COVID-19 (modelled estimates) data set of the World Health Organization; Johns Hopkins Coronavirus Resource Center of Johns Hopkins University & Medicine; AIDSinfo online database of UNAIDS; and FAOSTAT online database of the Food and Agricultural Organization of the United Nations. The sources also include direct communication with national statistical offices, demographers, and country experts from around the world. Specific data sources may be obtained by contacting the authors of the *2022 World Population Data Sheet*. Demographic rates for countries with complete vital registration are those most recently reported. For more-developed countries, the rates refer to 2021 or 2020. For other indicators, see Definitions for data years.

Photo Credit

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Definitions

POPULATION AND PROJECTED POPULATION, MID-2022, MID-2035, AND MID-2050
Current estimates and projections are based on recent censuses, official national data, or analyses conducted by national statistical offices, regional organizations, PRB, UN Population Division, or International Programs Center of the U.S. Census Bureau. The effects of refugee movements, large numbers of foreign workers, and population shifts due to current events are taken into account to the extent possible. Projected populations are based on reasonable assumptions on the future course of fertility, mortality, and migration.

BIRTHS/DEATHS PER 1,000 POPULATION
Crude birth and death rates, or the annual number of births and deaths per 1,000 total population, respectively.

RATE OF NATURAL INCREASE (%)
The birth rate minus the death rate, expressed as a percentage. This value represents the estimated rate of population growth without regard for migration.

NET MIGRATION RATE
The estimated net migration (immigration

minus emigration) per 1,000 total population. For some countries, data are derived as a residual from estimated birth, death, and population growth rates. A value of “0” indicates that the net migration rate is less than 0 but greater than -0.5; a value of “0” means that the net migration rate is greater than or equal to 0 and less than 0.5.

INFANT MORTALITY RATE

The annual number of deaths of infants under age 1 per 1,000 live births. Decimals indicate national statistics reported as completely registered; those without decimals are estimates from the sources cited above. Rates shown in italics are based on fewer than 50 annual infant deaths and, as a result, are subject to considerable yearly variability; rates shown for such countries are estimated from an average of the previous three years.

TOTAL FERTILITY RATE

The average number of children a woman would have assuming current age-specific birth rates remain constant throughout her childbearing years (usually considered to be ages 15 to 49).

POPULATION AGES <15 AND AGES 65+

The percentage of the total population in those age groups, which are often considered the “dependent ages.”

FAMILY PLANNING AMONG MARRIED WOMEN (AGES 15-49): USING ALL METHODS, USING MODERN METHODS, DEMAND SATISFIED BY MODERN METHODS (%)

The percentage of currently married or in-union women (unless otherwise indicated in footnotes) of reproductive age who are currently using any form of contraception; any modern form of contraception; and among those with a need for family planning, the percentage who have their need met by modern methods. Modern methods comprise clinic and supply methods, including the pill, injectable, implant, IUD, condom, and sterilization. The inclusion of lactational amenorrhea and/or Standard Days Method in modern methods varies across countries. Data are from the most recently available national-level surveys since 2006. Data prior to 2016 are shown in italics. The classification of women as currently married or in-union may vary by country. The age range of women surveyed varies in some countries.

LIFE EXPECTANCY AT BIRTH, TOTAL AND BY SEX
The average number of years a newborn infant can expect to live under current mortality rates.

POPULATION AGES 15-49 WITH HIV/AIDS BY SEX (%), 2021

The percentage of the population ages 15-49 living with HIV/AIDS.

URBAN POPULATION (%)

The percentage of the total population living in areas termed “urban” by that country or by the UN.

POPULATION PER SQUARE KILOMETER OF ARABLE LAND

The mid-year 2022 population divided by the square kilometers of arable land last measured in 2020.

GNI PER CAPITA, PPP, 2021 (\$ CURRENT INTERNATIONAL)

Gross national income in purchasing power parity (PPP) divided by mid-year population. Data prior to 2021 are in italics.

EXCESS DEATHS DUE TO COVID-19 PANDEMIC, 2020-2021 ANNUAL AVERAGE: NUMBER, RATE PER 100,000 POPULATION, AND EXCESS DEATHS AS A PERCENT OF TOTAL DEATHS

The difference between the average annual number of deaths in 2020 and 2021 and the deaths predicted for the same period if pre-pandemic trends had continued under normal circumstances as published by the World Health Organization. The difference reflects the number of deaths associated with the COVID-19 pandemic both directly through the coronavirus, SARS CoV-2, and indirectly through changes in access to health services and in people's behaviors. Negative values indicate the number or percent of deaths averted due to lower risks from certain causes of deaths, such as traffic accidents and influenza, due to changes in people's behaviors. Mean estimates are presented; low and high estimates are available from the WHO (<https://www.who.int/data/sets/global-excess-deaths-associated-with-covid-19-modelled-estimates>).

POPULATION FULLY VACCINATED AGAINST COVID-19 (%), MID-2022

The percentage of the total population fully vaccinated against COVID-19 as of June 30, 2022, based on the number of individuals that countries, territories, and regions report as being fully vaccinated. The definition of fully vaccinated may vary by country or region. Data were compiled by the Johns Hopkins Coronavirus Resource Center.