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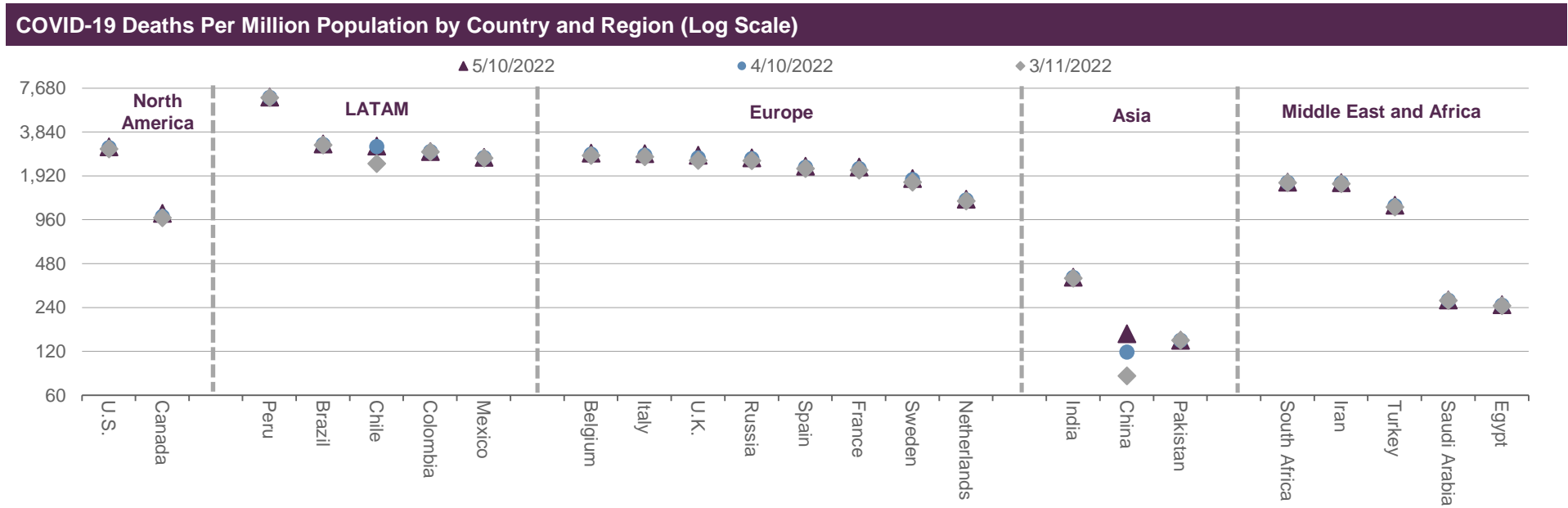
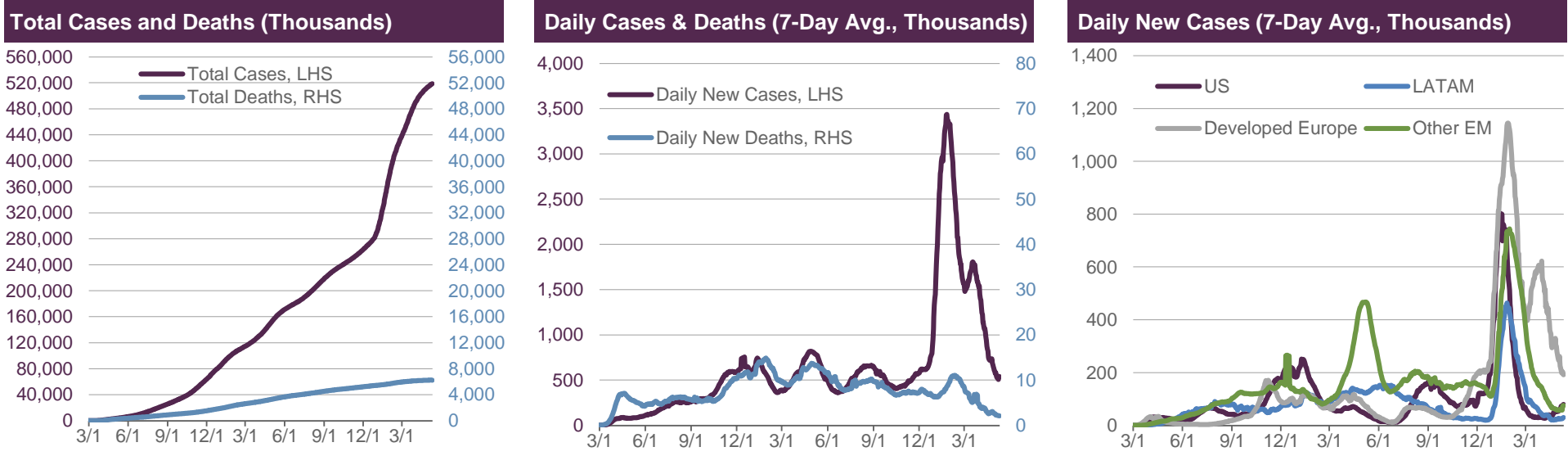
Guggenheim Partners

Global COVID-19 and Vaccine Monitor

May 11, 2022

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COVID-19 Globally



Source: Guggenheim Investments, Bloomberg, Ourworldindata.com. Data as of 5/10/2022.

Key COVID-19 Statistics

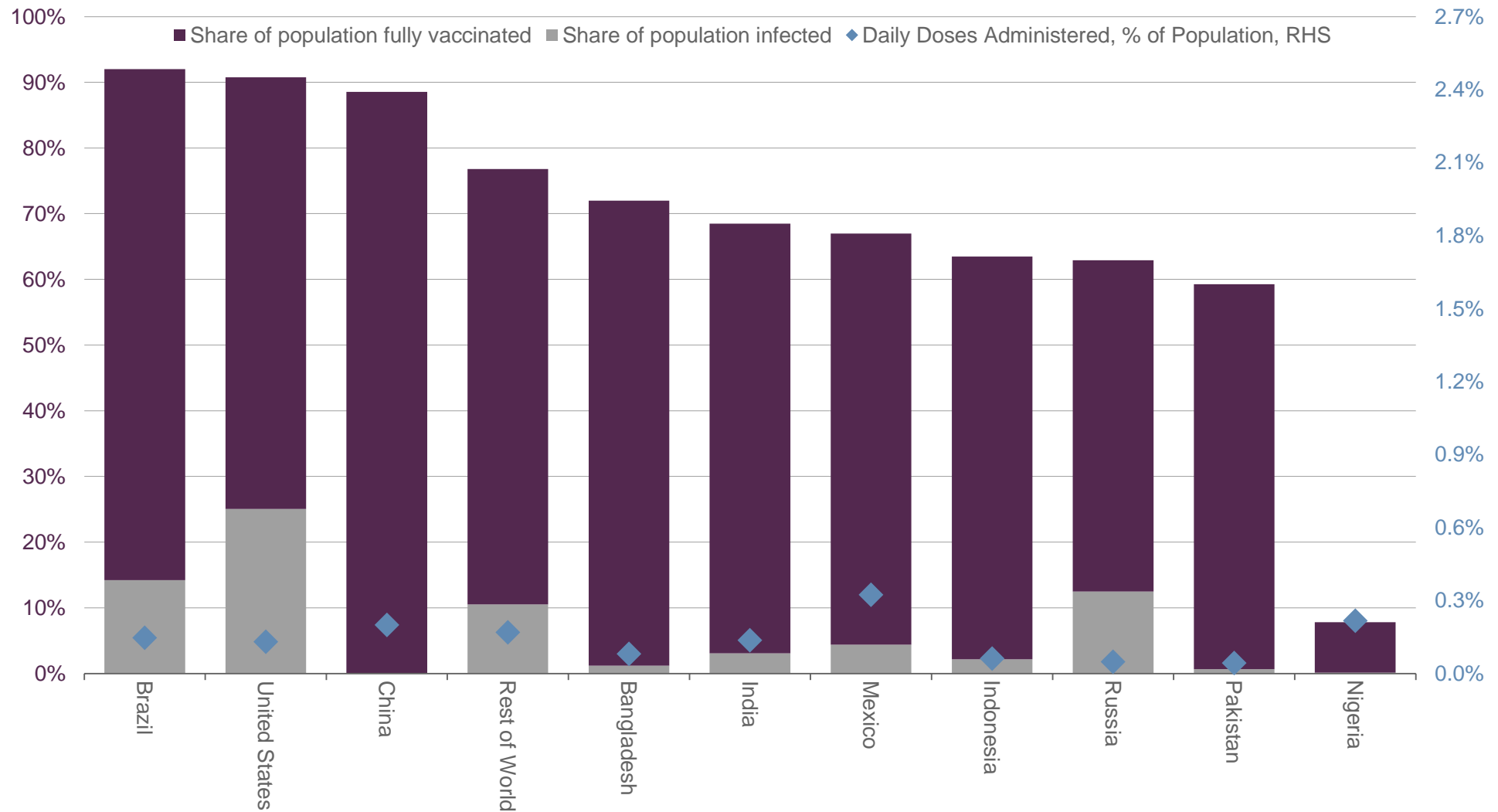
Reported COVID-19 Cases: Mortality Rates and Other Statistics

Country	Total Cases	New Cases	Total Deaths	New Deaths	Cases Per 1M Pop.	Share of Total Cases		Share of Closed Cases		Tests Per 1M Pop.	Positive Rate (=Cases/Tests)
						Active (%)	Closed (%)	Recovered (%)	Deceased (%)		
USA	83,778,760	59,954	1,025,104	279	250,387	2%	98%	99%	1%	3,029,263	8%
India	43,110,586	2,897	524,157	54	30,681	0%	100%	99%	1%	598,890	5%
Brazil	30,594,388	20,143	664,443	195	142,064	1%	99%	98%	2%	296,142	48%
France	29,021,224	56,449	146,979	123	442,795	4%	96%	99%	1%	4,116,769	11%
Germany	25,490,156	104,449	137,222	202	302,446	7%	93%	99%	1%	1,451,500	21%
UK	22,144,628	4,341	176,424	0	323,061	2%	98%	99%	1%	7,575,380	4%
Russia	18,237,227	4,531	377,150	101	124,869	1%	99%	98%	2%	1,871,958	7%
S. Korea	17,614,895	49,896	23,462	62	343,030	N/A	N/A	N/A	N/A	307,766	111%
Italy	16,873,052	56,449	164,731	158	279,831	6%	94%	99%	1%	3,591,648	8%
Turkey	15,046,779	1,858	98,861	7	174,923	0%	100%	99%	1%	1,861,163	9%
Spain	12,058,888	12,458	105,123	62	257,733	4%	96%	99%	1%	10,067,394	3%
Vietnam	10,681,214	2,855	43,058	1	107,934	12%	88%	100%	0%	867,077	12%
Argentina	9,101,319	0	128,729	0	198,011	1%	99%	99%	1%	777,050	25%
Japan	8,133,197	33,664	29,843	30	64,673	4%	96%	100%	0%	395,219	16%
Netherlands	8,063,023	1,580	22,281	3	468,642	1%	99%	100%	0%	1,226,813	38%
Iran	7,226,219	460	141,192	3	84,042	1%	99%	98%	2%	599,914	14%
Australia	6,334,822	47946	7,565	49	243,201	5%	95%	100%	0%	2,691,704	9%
Colombia	6,093,645	0	139,809	0	117,441	0%	100%	98%	2%	666,068	18%
Indonesia	6,049,141	456	156,416	20	21,691	0%	100%	97%	3%	346751	6%
Poland	6,001,327	727	116,149	11	158,892	9%	91%	98%	2%	957,861	17%
Mexico	5,745,652	424	324,465	2	43,713	7%	93%	94%	6%	120,628	36%
Ukraine	5,006,460	0	108,449	0	115,763	N/A	N/A	N/A	N/A	451,385	26%
Malaysia	4,463,740	2,605	35,590	6	134,719	1%	99%	99%	1%	1780921	8%
Thailand	4,337,568	6,230	29,199	53	61,855	2%	98%	99%	1%	246,288	25%
Austria	4,189,700	4,022	18,271	22	460,328	2%	98%	100%	0%	20,258,998	2%
Total	518,330,750	596,137	6,280,025	1,776	N/A	10%	90%	98.7%	1.3%	N/A	N/A

Source: Guggenheim Investments, Worldometers.info. Data as of 5/10/2022.

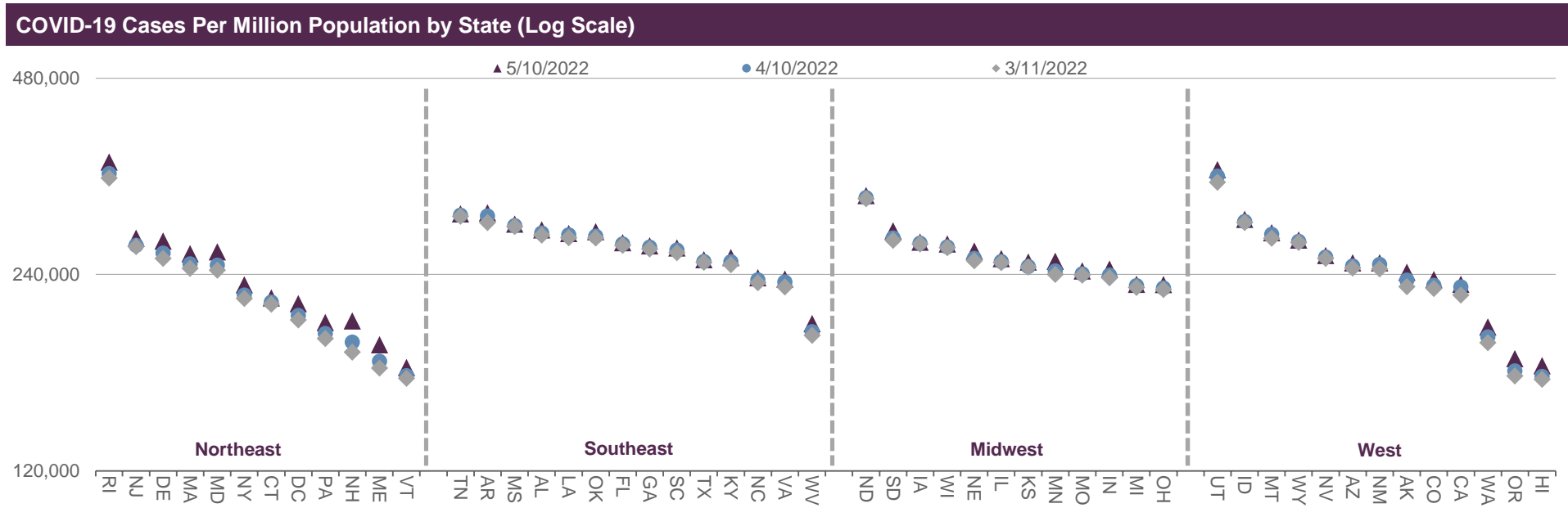
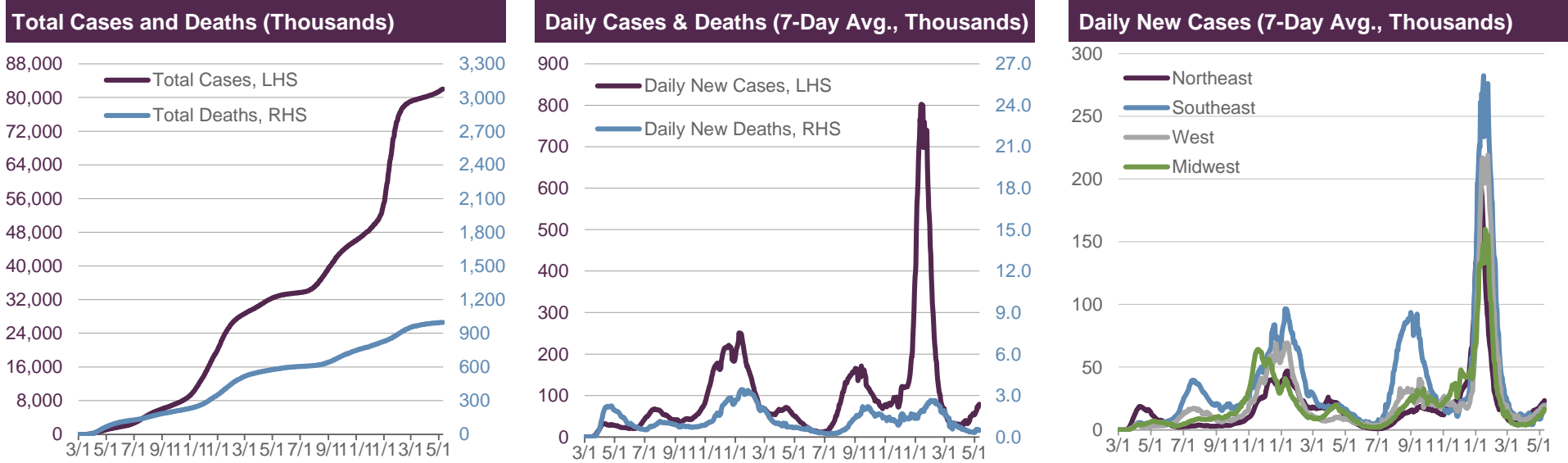
Progress Toward Herd Immunity

Progress Toward Herd Immunity in the 10 Most Populous Countries



Source: Guggenheim Investments, Bloomberg, Ourworldindata.org. Data as of 5/10/2022.

COVID-19 in the U.S.



Source: Guggenheim Investments, Bloomberg. Data as of 5/10/2022.

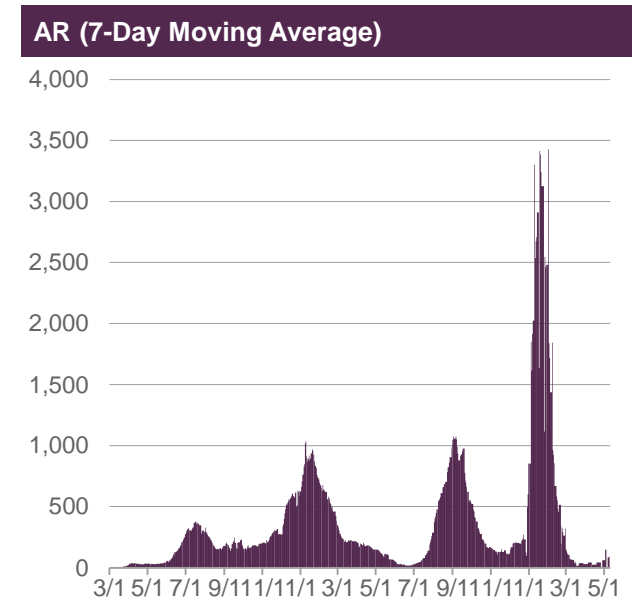
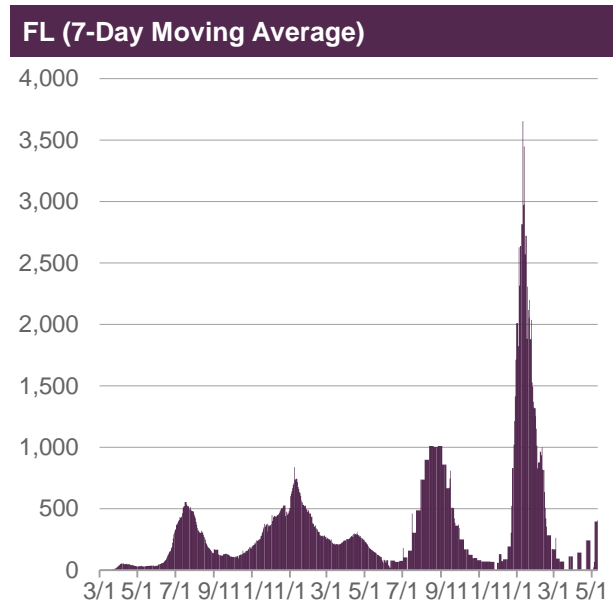
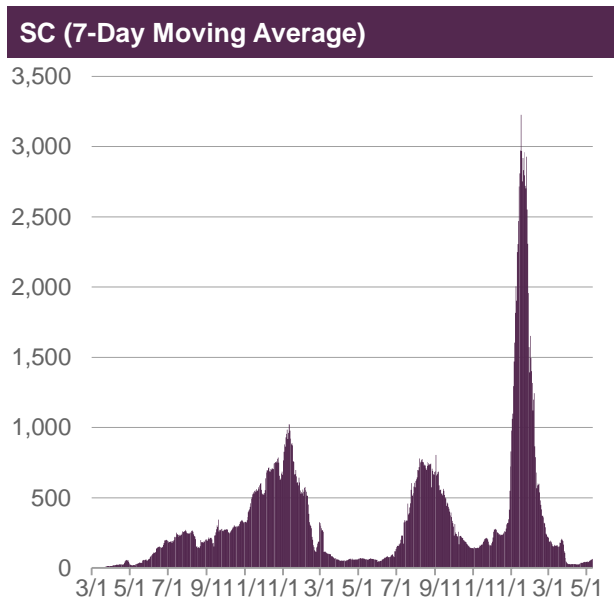
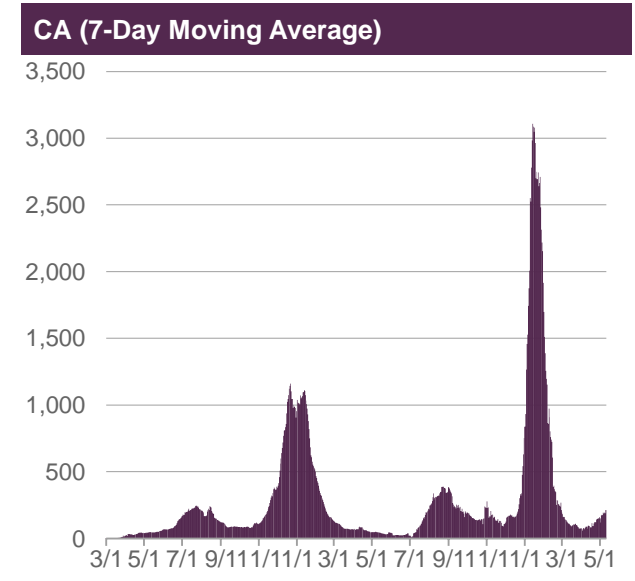
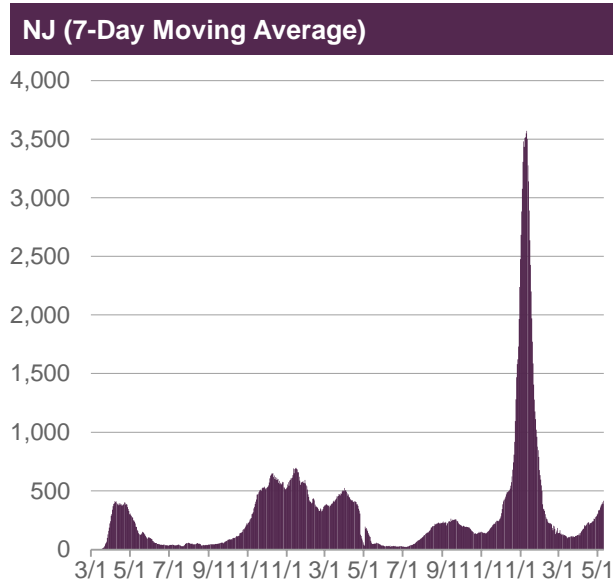
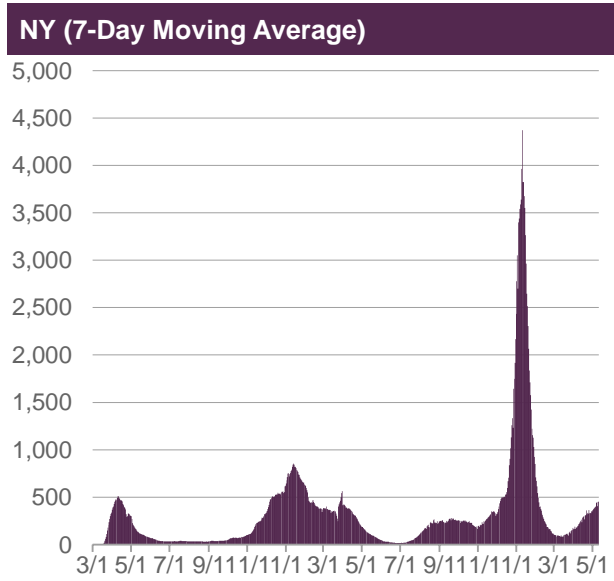
U.S. Map of Daily New Cases

Daily New Cases by State (7-Day Moving Average)



Source: Guggenheim Investments, Bloomberg. Data as of 5/10/2022; Start date: 1/23/2020.

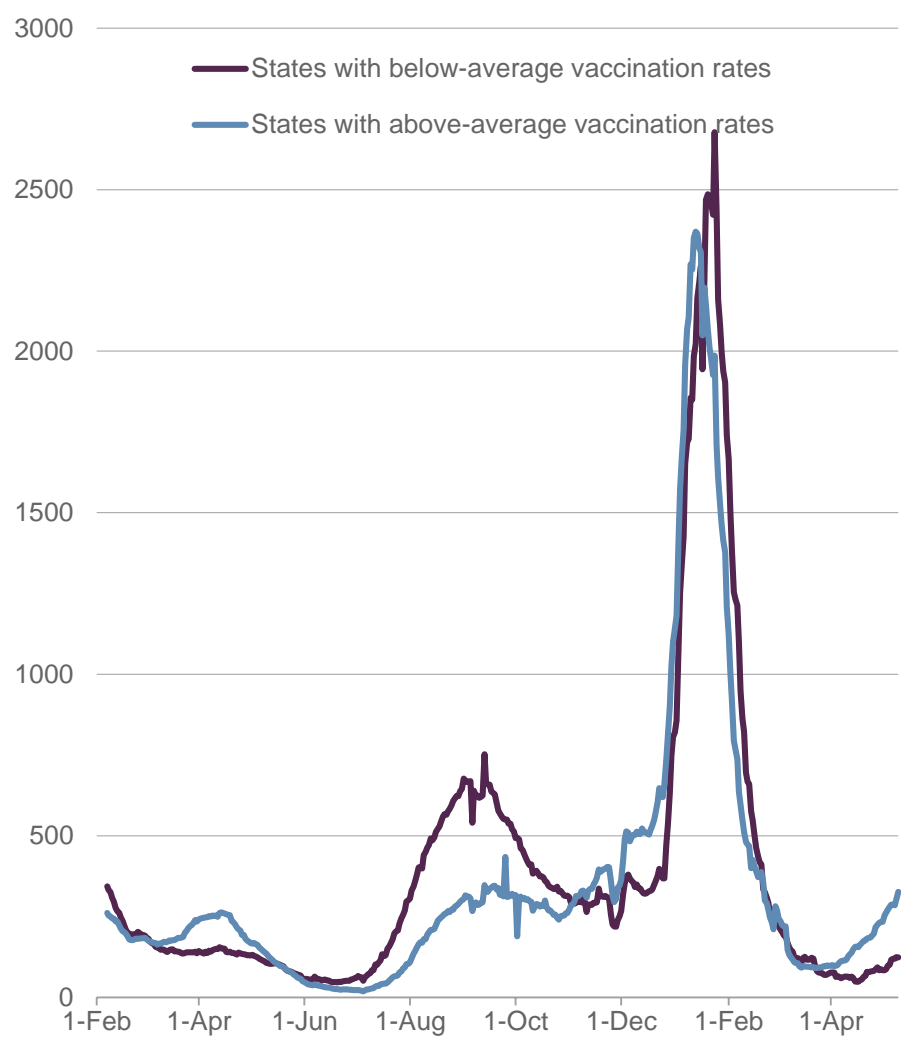
Daily New Cases per Million Population in Major Epicenters: The U.S.



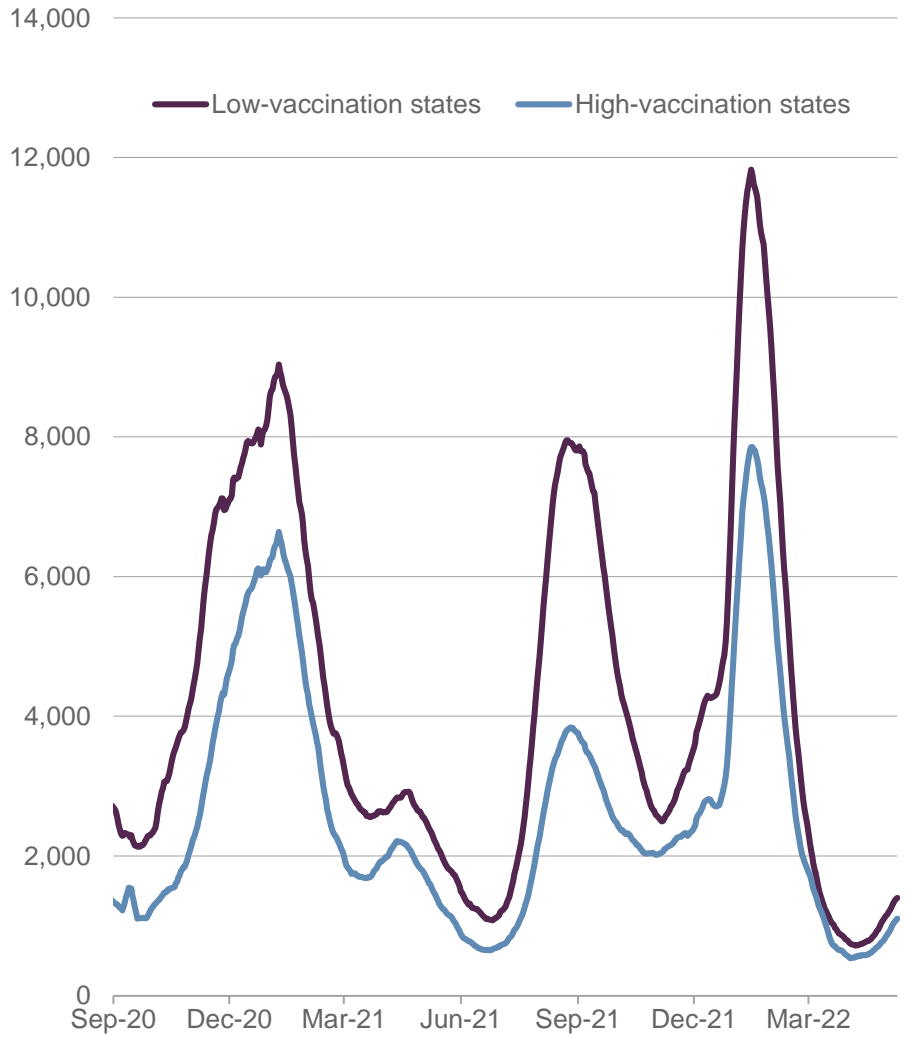
Source: Guggenheim Investments, Bloomberg. Data as of 5/10/2022.

U.S. Daily Cases and Deaths in High- and Low-Vaccination States

Daily New Cases Per Million People, 7-Day Moving Average



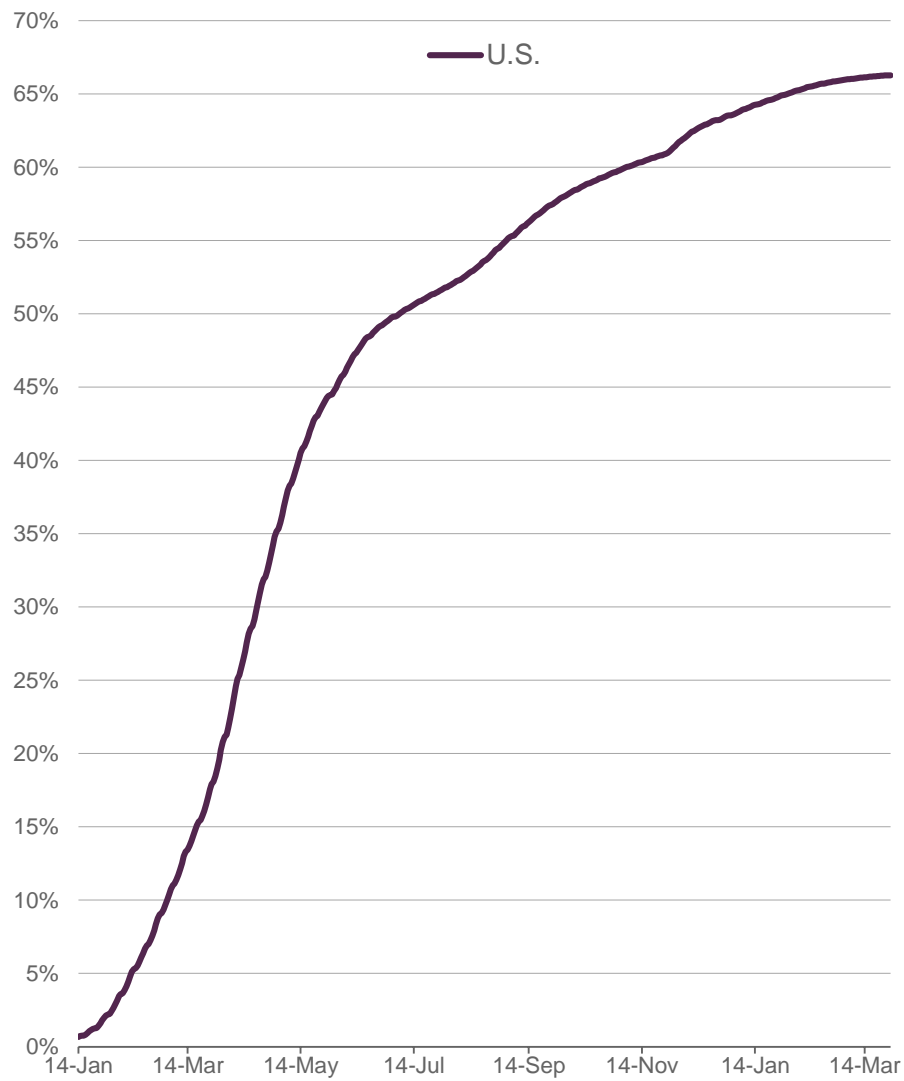
Daily Hospital Admissions Due to Covid-19, 7-Day Average



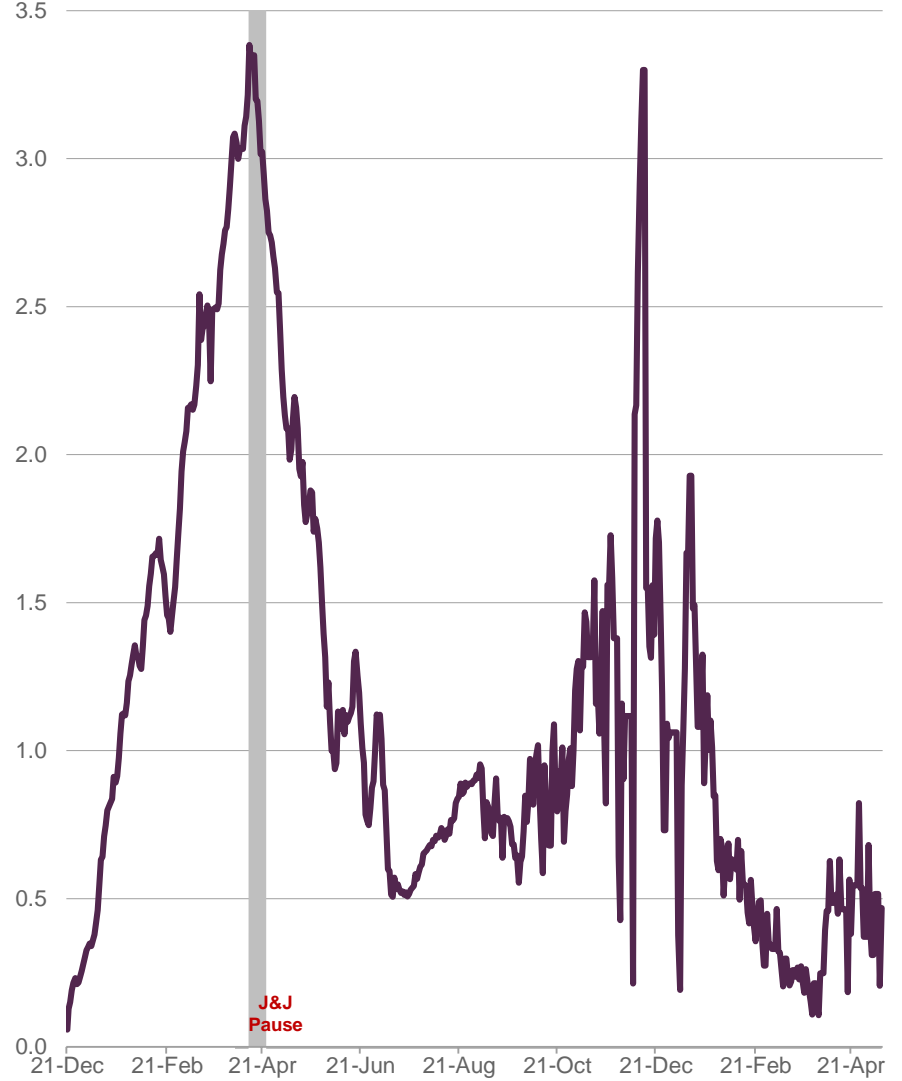
Source: Guggenheim Investments, Ourworldindata.com, Bloomberg. Data as of 5/10/2022.

U.S. Vaccination Statistics

Share of Population Fully Vaccinated

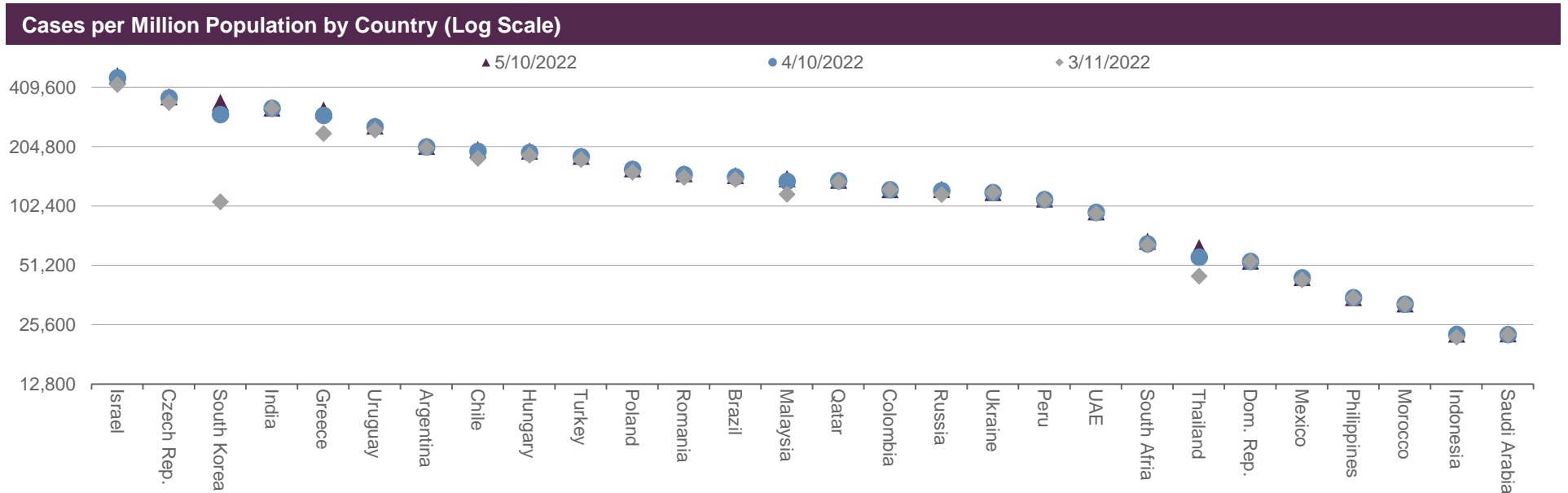
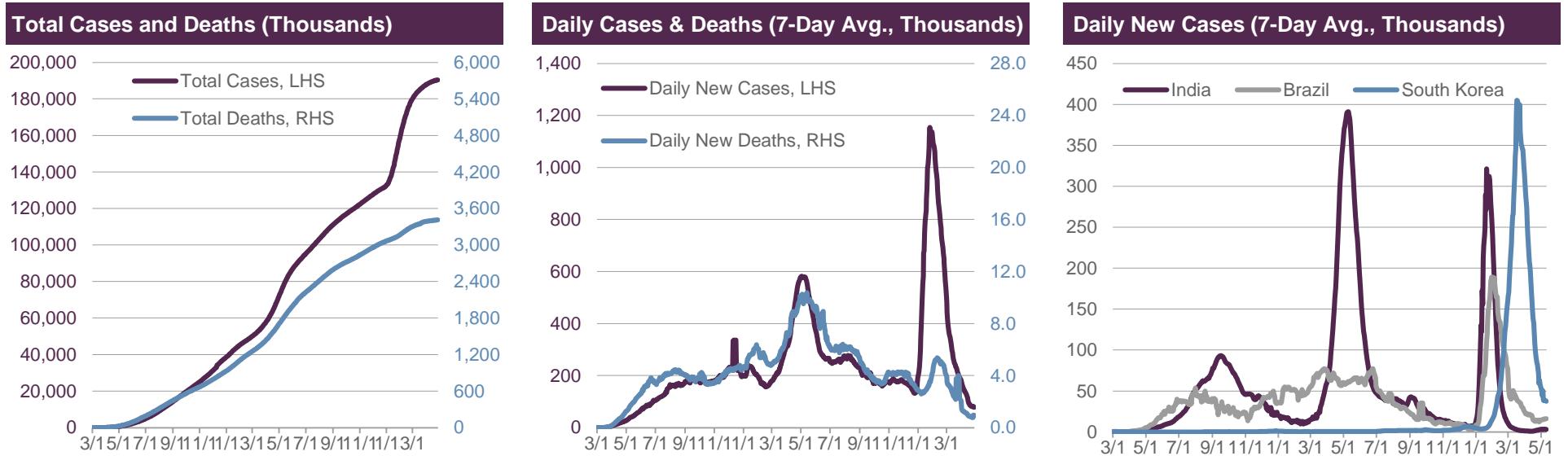


Daily Doses Administered in the U.S. (7-Day Avg., Millions)



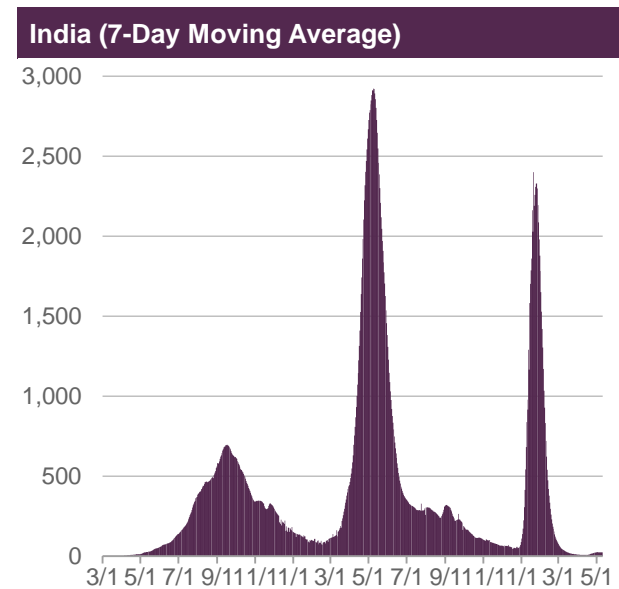
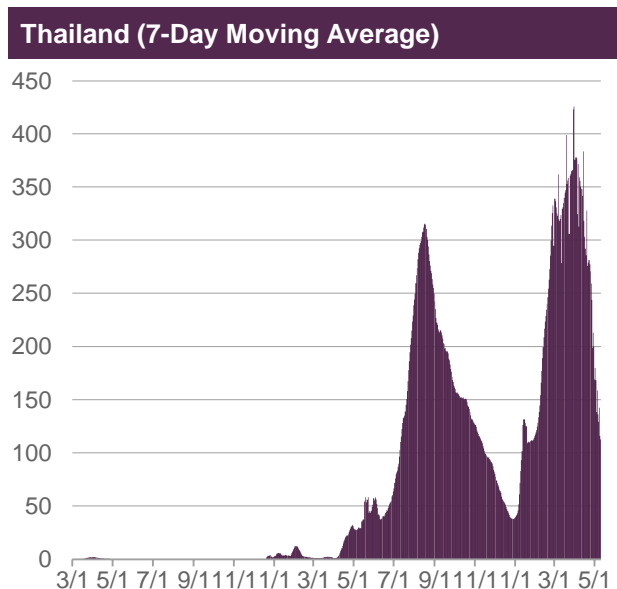
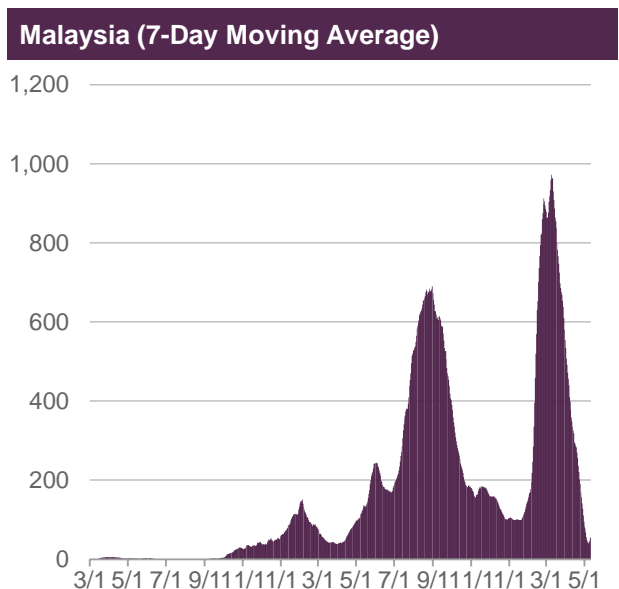
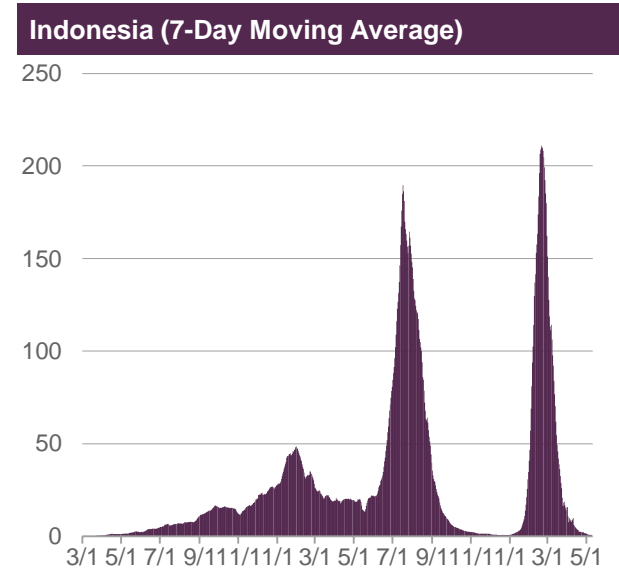
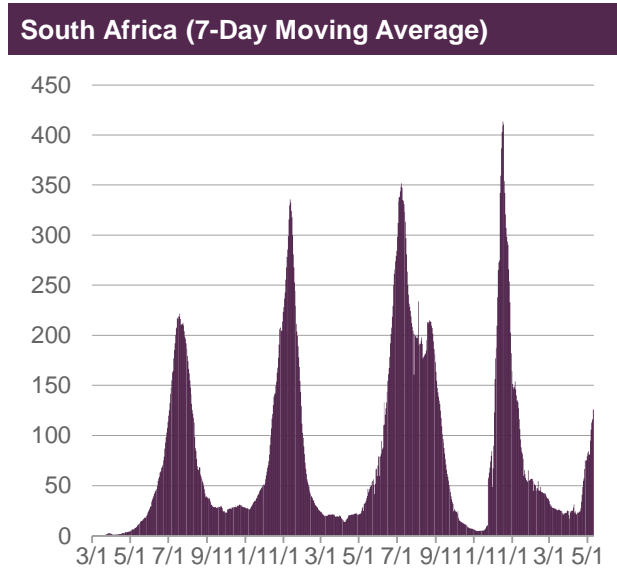
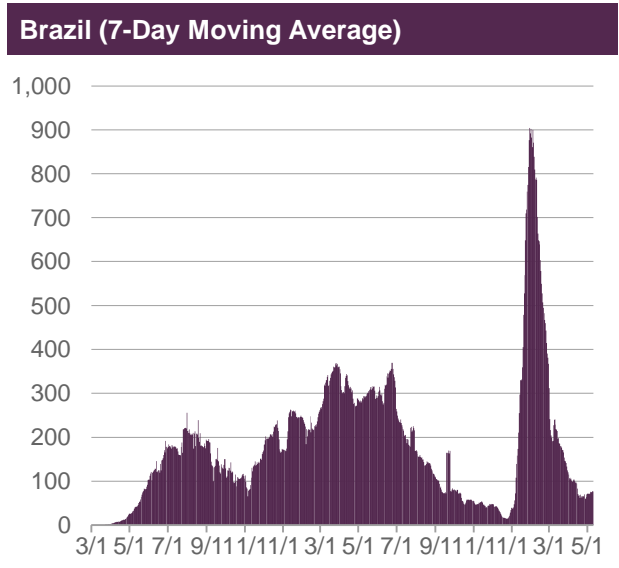
Source: Guggenheim Investments, Bloomberg, Ourworldindata.org. Data as of 5/10/2022.

COVID-19 Cases in Emerging Markets



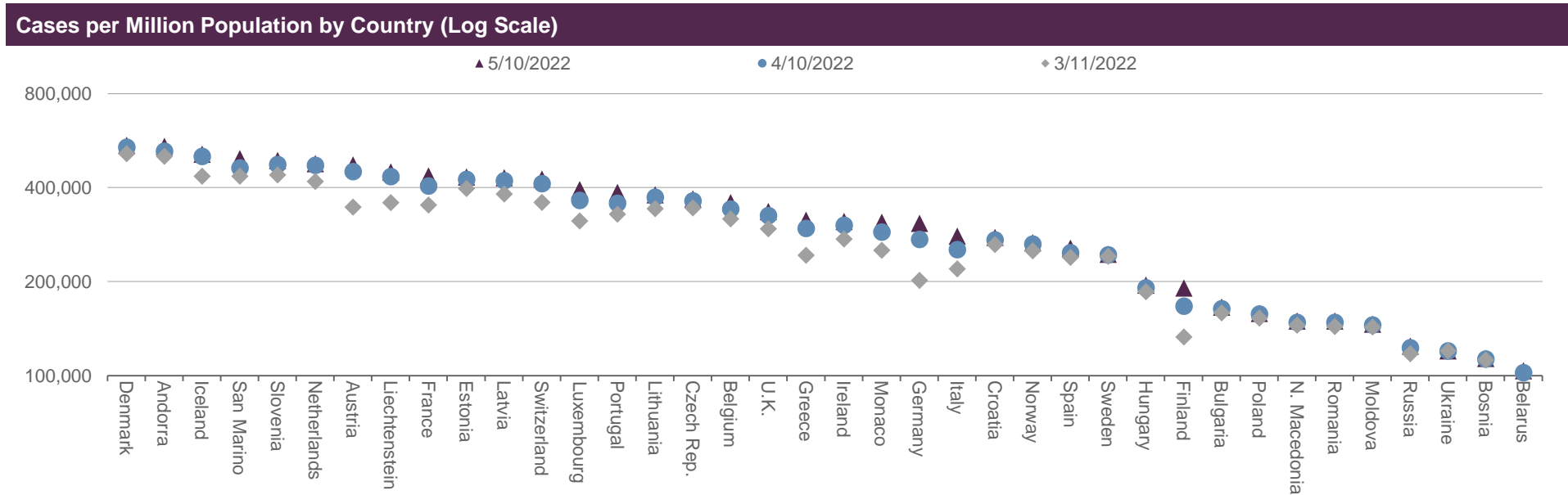
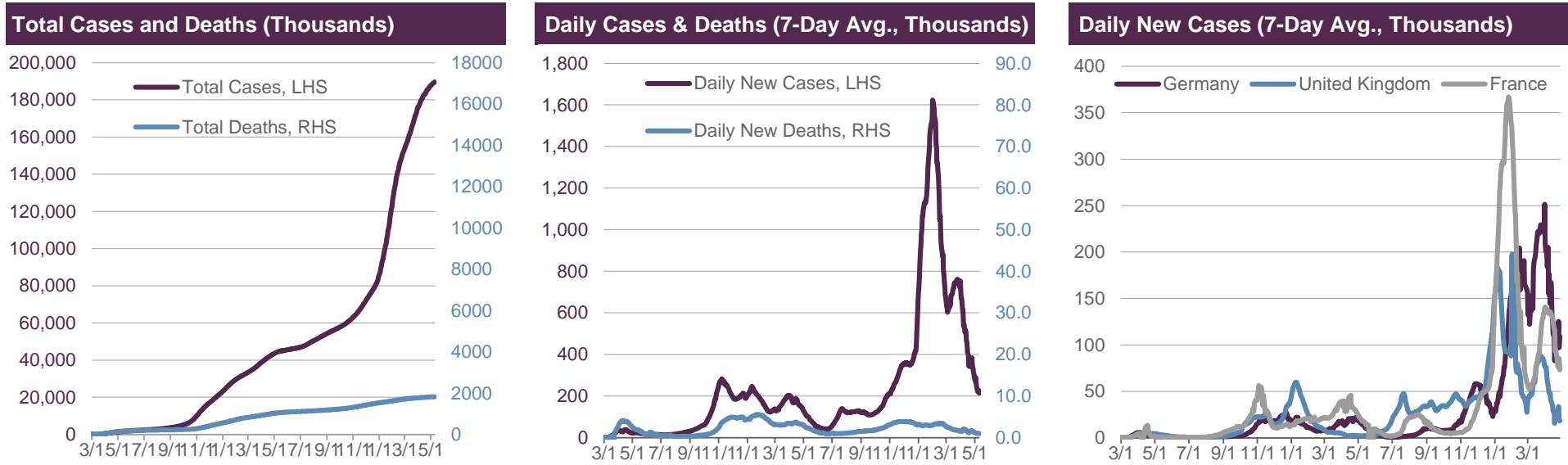
Source: Guggenheim Investments, Bloomberg. Data as of 5/10/2022. EM aggregate excludes China and Korea.

Daily New Cases per Million Population in Major Epicenters: EM



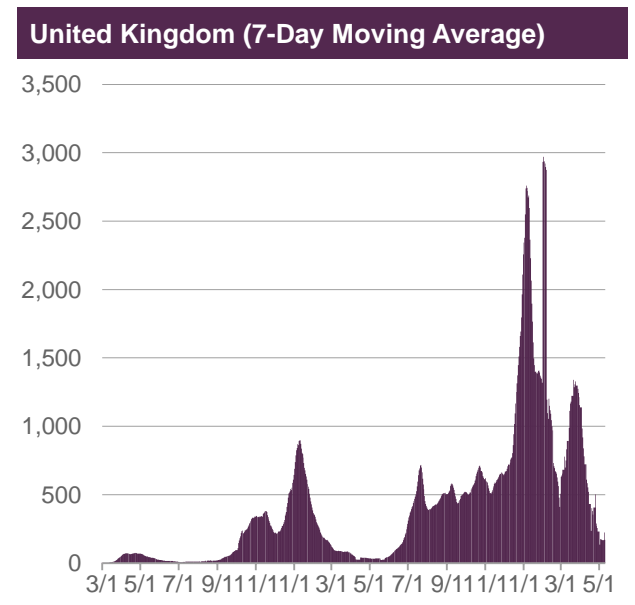
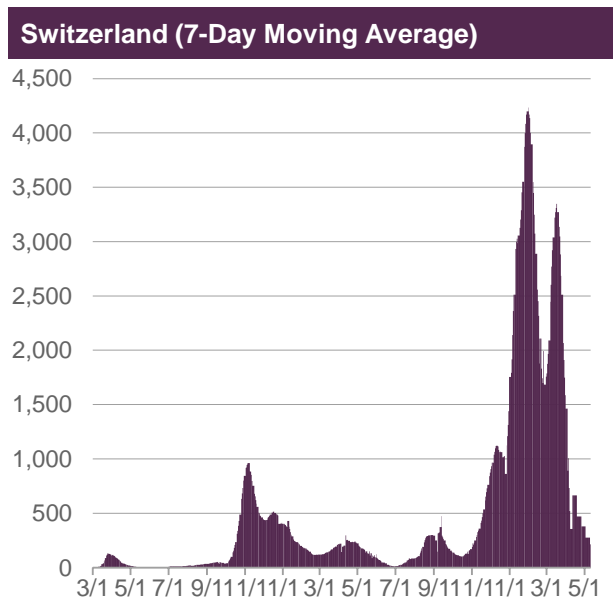
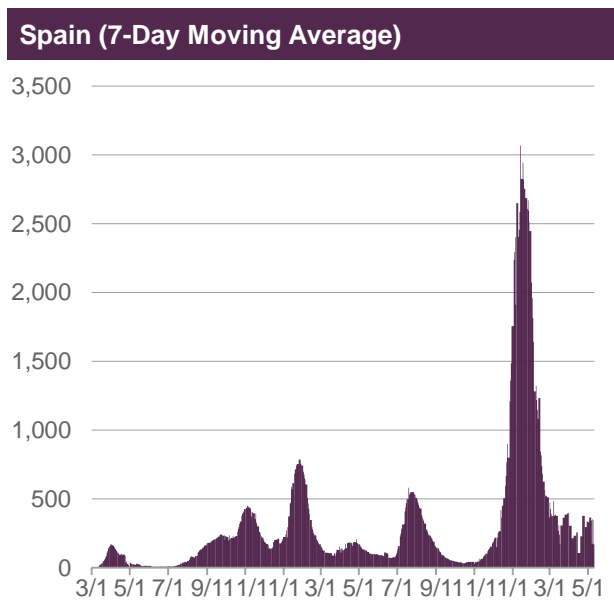
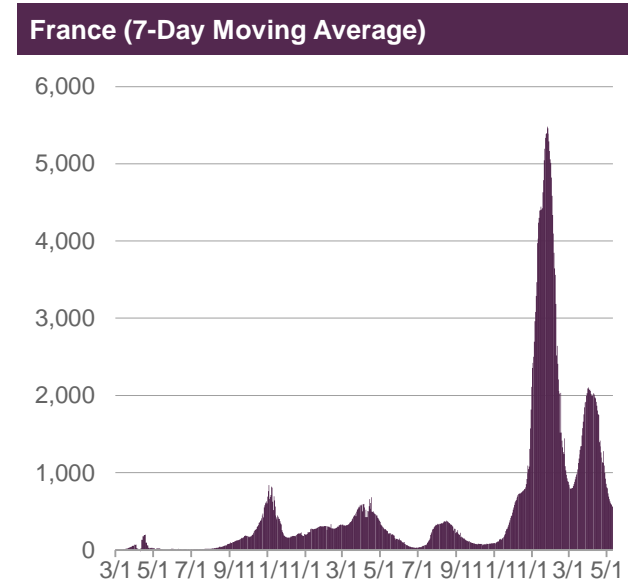
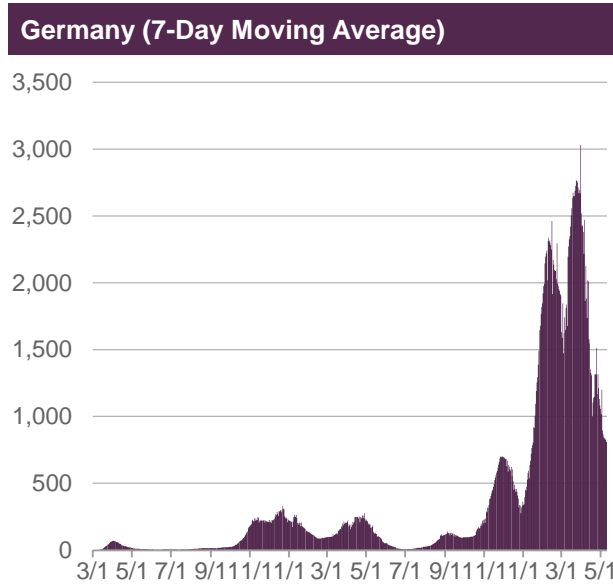
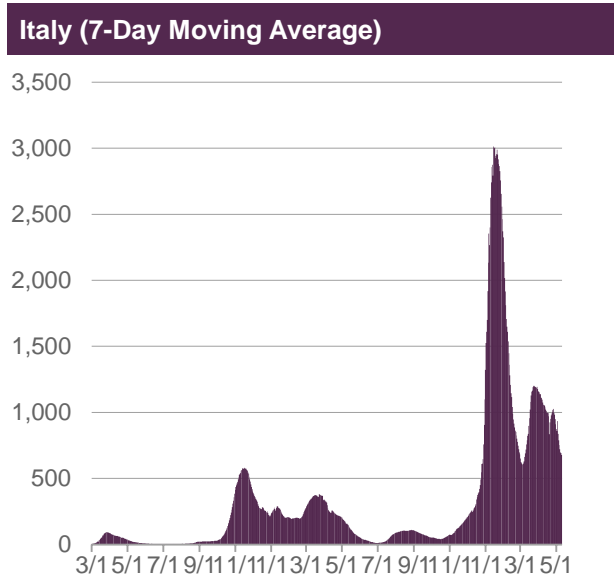
Source: Guggenheim Investments, Bloomberg. Data as of 5/10/2022.

COVID-19 Cases in Europe



Source: Guggenheim Investments, Bloomberg. Data as of 5/10/2022.

Daily New Cases per Million Population in Major Epicenters: Europe



Source: Guggenheim Investments, Bloomberg. Data as of 5/10/2022.

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