

Table S1 Distribution of SARS-CoV-2 variant lineages by continents during the first 6 months of pandemic

Continent	Time period	Sequence (N)	Proportion of variant lineages					
			GR	GH	G	V	L	S
Global	Before Feb	378	0.0%	0.3%	1.3%	7.1%	58.2%	33.1%
	Feb (1st half)	353	0.0%	2.0%	2.0%	19.3%	50.4%	26.3%
	Feb (2nd half)	664	9.3%	3.5%	10.7%	20.9%	37.8%	17.8%
	Mar (1st half)	7,003	17.5%	19.2%	18.3%	12.2%	13.6%	19.2%
	Mar (2nd half)	20,380	21.6%	25.5%	21.6%	11.9%	9.8%	9.6%
	Apr (1st half)	16,514	34.3%	21.6%	26.6%	6.6%	6.9%	4.1%
	Apr (2nd half)	10,747	40.8%	21.9%	26.1%	3.5%	5.2%	2.5%
	May (1st half)	5,866	43.3%	23.7%	25.1%	1.3%	4.2%	2.5%
	May (2nd half)	3,425	51.7%	21.9%	21.0%	0.6%	3.1%	1.8%
	Jun (1st half)	2,686	61.1%	16.6%	17.6%	0.5%	1.9%	2.4%
	Jun (2nd half)	1,555	53.3%	21.3%	20.5%	0.5%	3.0%	1.5%
Africa	Before Feb	-	-	-	-	-	-	-
	Feb (1st half)	-	-	-	-	-	-	-
	Feb (2nd half)	3	33.3%	33.3%	33.3%	-	-	-
	Mar (1st half)	25	8.0%	32.0%	52.0%	-	4.0%	4.0%
	Mar (2nd half)	156	17.3%	19.2%	36.5%	5.8%	6.4%	14.7%
	Apr (1st half)	159	3.8%	11.3%	72.3%	1.3%	0.6%	10.7%
	Apr (2nd half)	145	16.6%	11.0%	66.2%	-	2.1%	4.1%
	May (1st half)	109	30.3%	19.3%	48.6%	-	-	1.8%
	May (2nd half)	38	63.2%	10.5%	26.3%	-	-	-
	Jun (1st half)	192	39.6%	7.8%	52.1%	-	-	0.5%
	Jun (2nd half)	117	65.8%	1.7%	31.6%	-	-	0.9%
Asia	Before Feb	337	-	-	1.2%	5.3%	59.9%	33.5%
	Feb (1st half)	321	-	2.2%	1.2%	17.1%	52.3%	27.1%
	Feb (2nd half)	294	-	3.7%	0.3%	32.7%	48.0%	15.3%
	Mar (1st half)	510	9.8%	10.0%	9.0%	10.8%	37.5%	22.9%
	Mar (2nd half)	985	24.9%	21.0%	11.1%	5.7%	26.3%	11.1%
	Apr (1st half)	706	25.5%	22.8%	6.2%	2.1%	40.1%	3.3%
	Apr (2nd half)	485	18.1%	20.0%	15.1%	0.2%	41.2%	5.4%
	May (1st half)	436	28.4%	11.9%	22.2%	-	28.2%	9.2%
	May (2nd half)	429	34.3%	25.9%	20.0%	-	17.9%	1.9%
	Jun (1st half)	513	42.1%	26.3%	22.2%	-	8.0%	1.4%
	Jun (2nd half)	181	53.0%	17.1%	7.7%	-	21.5%	0.6%
Europe	Before Feb	12	-	8.3%	8.3%	41.7%	25.0%	16.7%
	Feb (1st half)	24	-	-	12.5%	50.0%	33.3%	4.2%
	Feb (2nd half)	226	24.8%	3.5%	28.3%	17.3%	20.8%	5.3%
	Mar (1st half)	4,352	23.7%	13.4%	23.3%	16.3%	13.0%	10.4%
	Mar (2nd half)	12,334	28.5%	11.0%	28.3%	16.7%	11.5%	4.0%
	Apr (1st half)	11,617	43.7%	8.8%	31.3%	8.6%	5.8%	1.8%
	Apr (2nd half)	7,612	52.4%	9.1%	28.7%	4.7%	4.0%	1.1%
	May (1st half)	3,843	57.4%	11.0%	26.7%	1.9%	2.4%	0.7%
	May (2nd half)	2,161	59.1%	13.6%	24.9%	0.9%	1.1%	0.4%
	Jun (1st half)	1,022	69.8%	7.3%	20.5%	1.3%	0.9%	0.2%
	Jun (2nd half)	562	76.0%	6.2%	15.5%	1.2%	1.1%	-
	Before Feb	14	-	-	-	7.1%	57.1%	35.7%
	Feb (1st half)	4	-	-	-	25.0%	25.0%	50.0%
	Feb (2nd half)	117	4.3%	2.6%	0.9%	1.7%	39.3%	51.3%
	Mar (1st half)	1,784	4.7%	38.0%	7.7%	2.9%	7.0%	39.8%
	Mar (2nd half)	4,943	4.1%	63.8%	7.0%	2.6%	3.4%	19.1%

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			GR	GH	G	V	L	S
North America	Apr (1st half)	3,251	3.5%	67.4%	12.2%	1.3%	4.4%	11.1%
	Apr (2nd half)	2,281	7.1%	66.5%	17.3%	0.6%	1.8%	6.8%
	May (1st half)	1,361	12.1%	60.2%	20.5%	0.3%	1.3%	5.6%
	May (2nd half)	703	41.1%	42.5%	10.1%	-	0.1%	6.1%
	Jun (1st half)	888	65.8%	22.7%	5.4%	-	-	6.1%
	Jun (2nd half)	635	29.9%	39.8%	26.9%	-	-	3.3%
Oceania	Before Feb	15	-	-	-	20.0%	46.7%	33.3%
	Feb (1st half)	4	-	-	-	-	25.0%	75.0%
	Feb (2nd half)	19	-	-	5.3%	-	89.5%	5.3%
	Mar (1st half)	190	10.5%	5.3%	13.7%	17.4%	33.2%	20.0%
	Mar (2nd half)	1,528	13.4%	23.7%	19.8%	11.1%	9.2%	22.9%
	Apr (1st half)	461	12.6%	29.1%	34.1%	3.3%	8.9%	12.1%
	Apr (2nd half)	85	12.9%	29.4%	34.1%	2.4%	20.0%	1.2%
	May (1st half)	106	7.5%	67.9%	13.2%	-	11.3%	-
	May (2nd half)	72	33.3%	51.4%	6.9%	-	4.2%	4.2%
	Jun (1st half)	69	71.0%	26.1%	-	-	2.9%	-
	Jun (2nd half)	48	70.8%	18.8%	6.3%	-	4.2%	-
South America	Before Feb	-	-	-	-	-	-	-
	Feb (1st half)	-	-	-	-	-	-	-
	Feb (2nd half)	5	-	-	60.0%	40.0%	-	-
	Mar (1st half)	142	26.8%	12.0%	33.1%	5.6%	4.9%	17.6%
	Mar (2nd half)	434	46.5%	21.4%	21.4%	1.6%	0.7%	8.3%
	Apr (1st half)	320	71.6%	12.5%	12.8%	1.6%	0.6%	0.9%
	Apr (2nd half)	139	79.9%	3.6%	16.5%	-	-	-
	May (1st half)	11	72.7%	9.1%	18.2%	-	-	-
	May (2nd half)	22	50.0%	18.2%	31.8%	-	-	-
	Jun (1st half)	2	100.0%	-	-	-	-	-
	Jun (2nd half)	12	41.7%	8.3%	50.0%	-	-	-