

COVID-19 situation report for WHO Africa Region  
08/05/2020

Produced by the TIBA COVID-19 Pandemic Response Unit



# Contents

(Click to access)

<b>Section 1: Overview of WHO Africa Region 07/05/2020</b>	<b>4</b>
Overview . . . . .	4
Methods . . . . .	5
Summary maps . . . . .	6
Sequencing . . . . .	7
<b>Section 2: Individual country situations</b>	<b>8</b>
Algeria . . . . .	9
Angola . . . . .	10
Benin . . . . .	11
Botswana . . . . .	12
Burkina Faso . . . . .	13
Burundi . . . . .	14
Cabo Verde . . . . .	15
Cameroon . . . . .	16
Central African Republic . . . . .	17
Chad . . . . .	18
Comoros . . . . .	19
Congo . . . . .	20
Cote d'Ivoire . . . . .	21
Democratic Republic of the Congo . . . . .	22
Equatorial Guinea . . . . .	23
Eritrea . . . . .	24
Eswatini . . . . .	25
Ethiopia . . . . .	26
Gabon . . . . .	27
Gambia . . . . .	28
Ghana . . . . .	29
Guinea . . . . .	30
Guinea-Bissau . . . . .	31
Kenya . . . . .	32
Lesotho . . . . .	33
Liberia . . . . .	34
Madagascar . . . . .	35
Malawi . . . . .	36
Mali . . . . .	37
Mauritania . . . . .	38
Mauritius . . . . .	39
Mozambique . . . . .	40
Namibia . . . . .	41
Niger . . . . .	42
Nigeria . . . . .	43
Rwanda . . . . .	44
Sao Tome and Principe . . . . .	45
Senegal . . . . .	46
Seychelles . . . . .	47

Sierra Leone . . . . .	48
South Africa . . . . .	49
South Sudan . . . . .	50
Togo . . . . .	51
Uganda . . . . .	52
United Republic of Tanzania . . . . .	53
Zambia . . . . .	54
Zimbabwe . . . . .	55
<b>Appendix</b>	<b>56</b>
Data . . . . .	56
Sources and access . . . . .	56
Doubling time calculations . . . . .	56
Caveats . . . . .	56
<b>Extended Data tables</b>	<b>57</b>
Cumulative reported cases . . . . .	57
Cumulative reported cases per 10,000 population . . . . .	58
Cumulative deaths . . . . .	59
Cumulative deaths per 10,000 populations . . . . .	60
Doubling time (cases) . . . . .	61
Doubling time (deaths) . . . . .	62

Section 1: Overview of WHO Africa Region 07/05/2020

Overview



**Total Reported Cases**  
**34306**

**Total Reported Deaths**  
**1219**

## Methods

We compare the size and rate of increase of the COVID-19 epidemic across the countries included in WHO Africa Region.

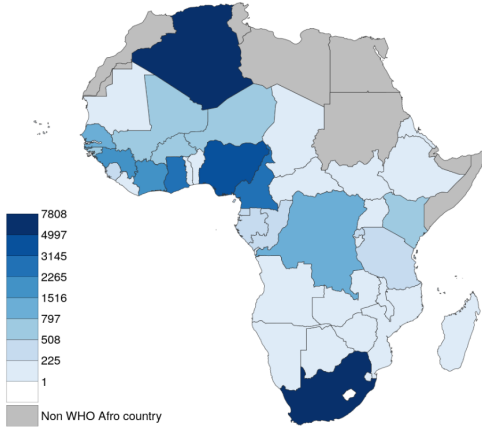
The maps below summarise the in-country situations:

- Top row: cumulative reported cases (left) and deaths (right).
- Middle row: cumulative reported cases (left) and deaths (right) per 10,000 population on a log10 scale.
- Bottom row: overview of doubling time of cumulative reported cases (left) and deaths (right). Doubling times are estimated over a 7 day period up to 07/05/2020. The lower the doubling time the faster the spread of COVID-19.

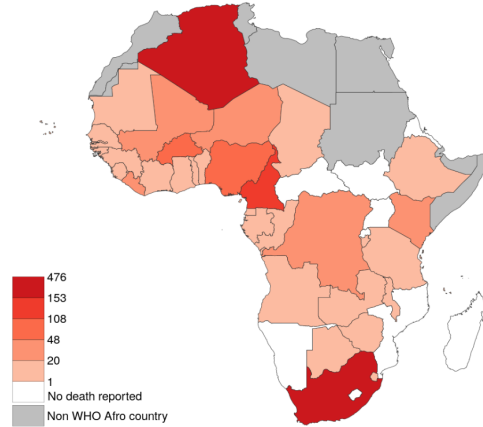
Caveat: Colour scales are non-linear and are re-calibrated every week.

# Summary maps

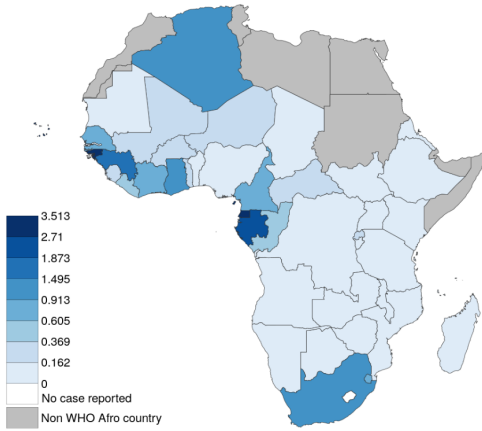
**CUMULATIVE REPORTED CASES**



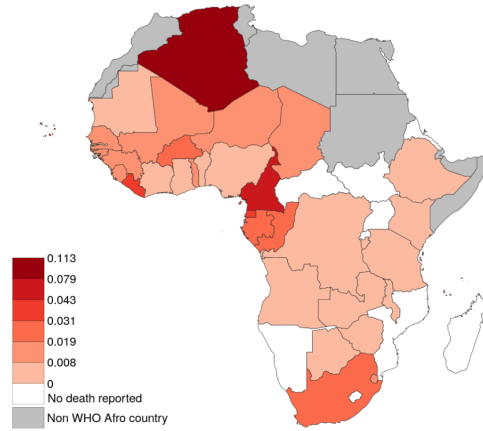
**CUMULATIVE REPORTED DEATHS**



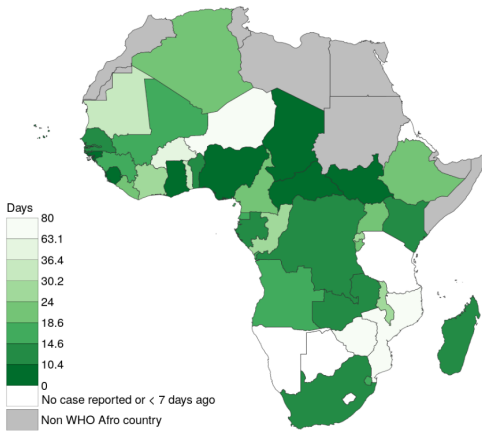
**CUMULATIVE REPORTED CASES PER 10k POPULATION**



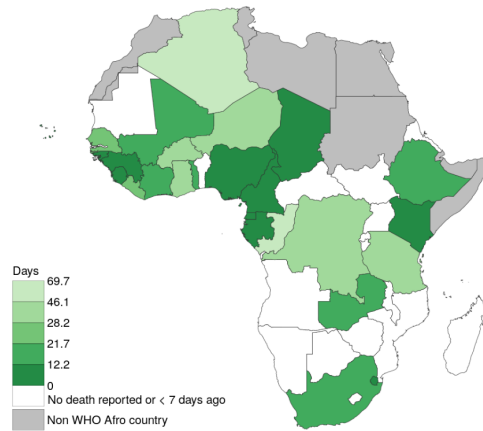
**CUMULATIVE REPORTED DEATHS PER 10k POPULATION**



**DOUBLING TIME CASES**



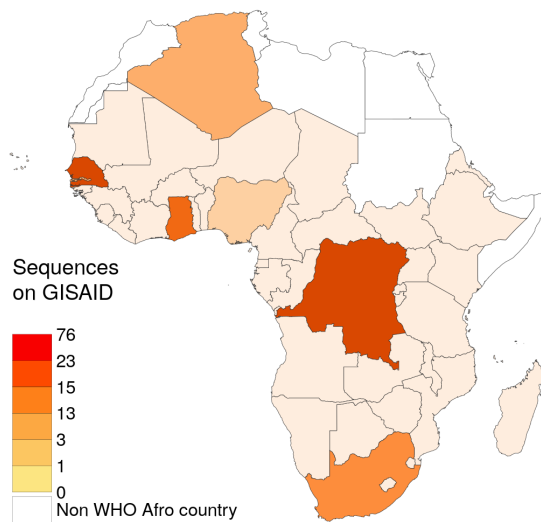
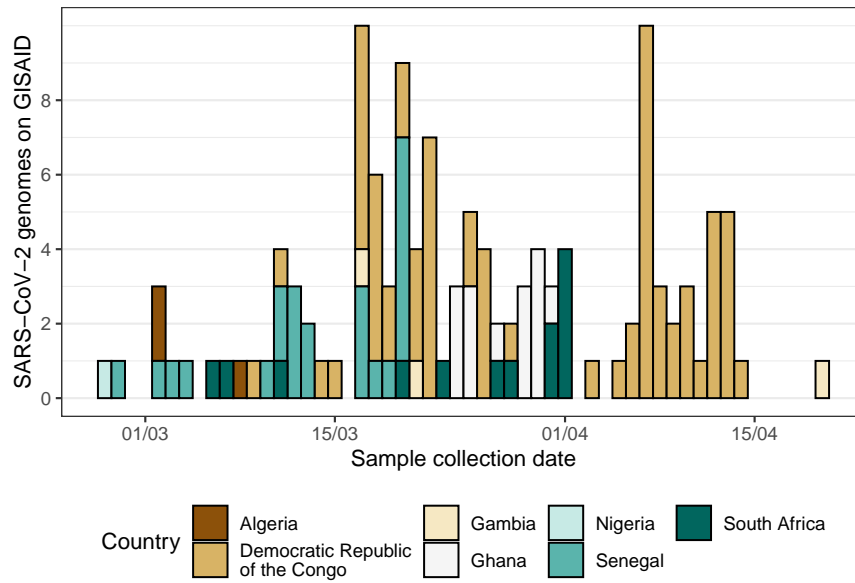
**DOUBLING TIME DEATHS**



## Sequencing

As of 07/05/2020, 134 SARS-CoV-2 genomes collected and sequenced in Africa have been submitted to GISAID. Each genome's country of origin and collection date is summarised below:

- Top graph: SARS-CoV-2 genomes available on GISAID by collection date. Six genomes from the Democratic Republic of the Congo with unknown collection dates are removed.
- Bottom map: SARS-CoV-2 genomes available on GISAID by country.



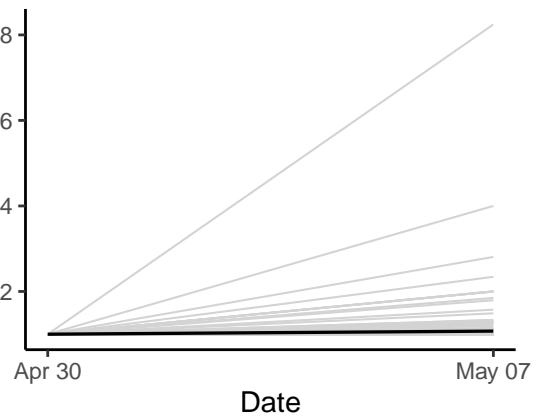
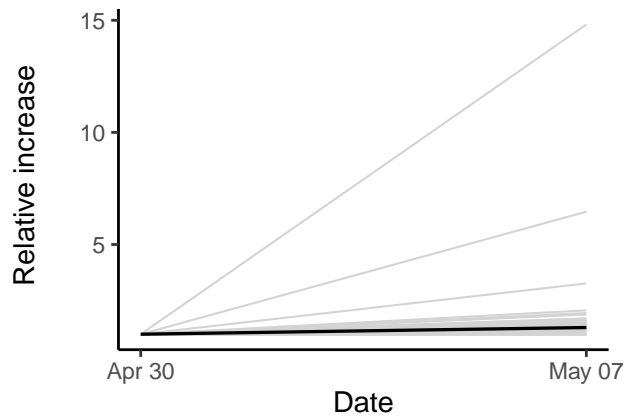
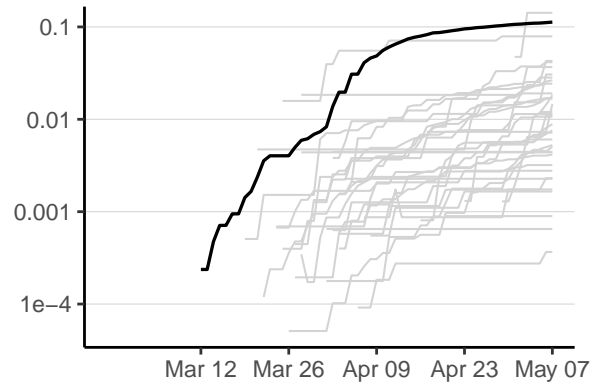
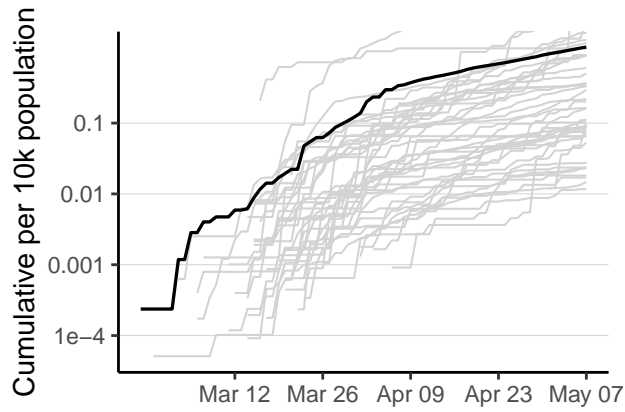
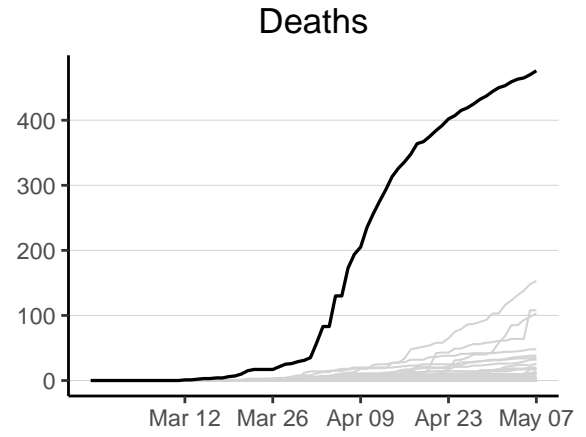
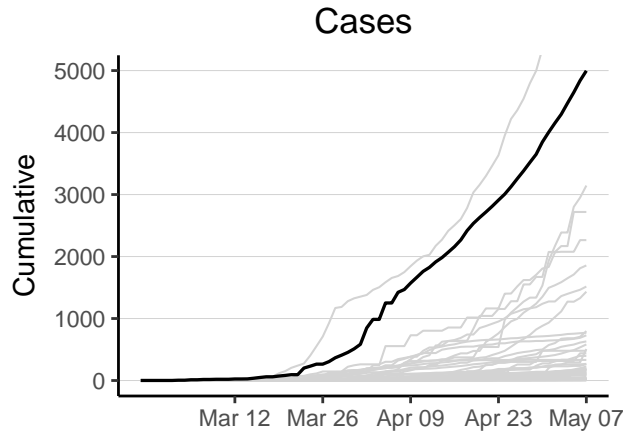
## Section 2: Individual country situations

As of 07/05/2020, each panel below shows for each country:

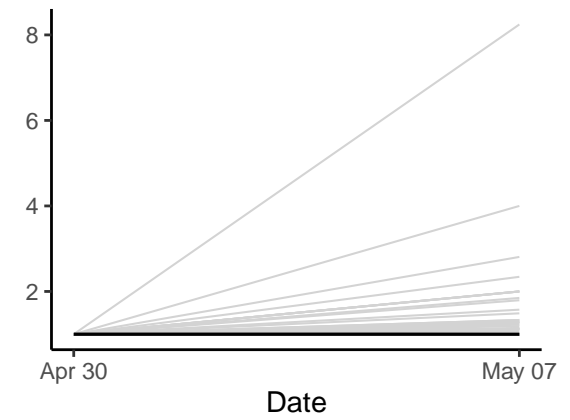
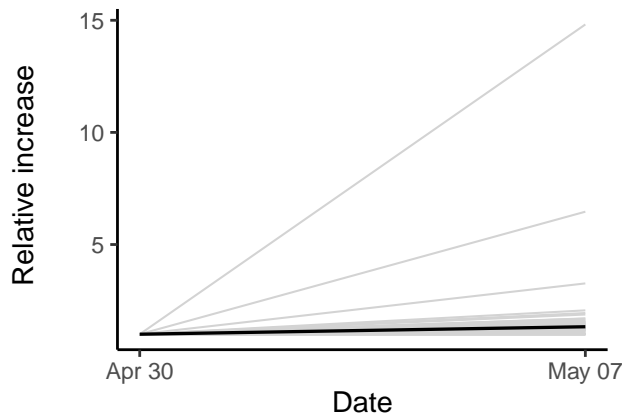
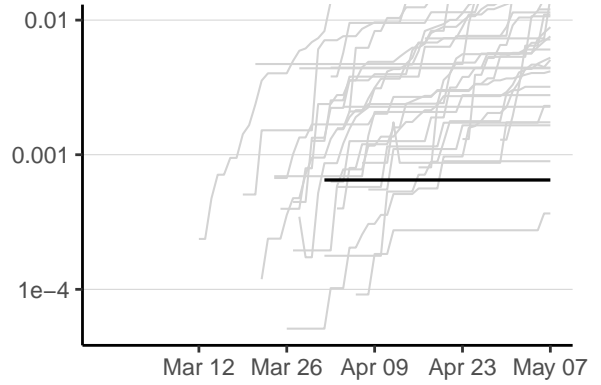
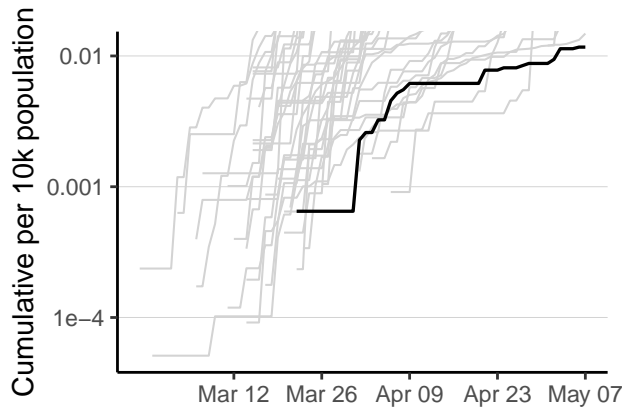
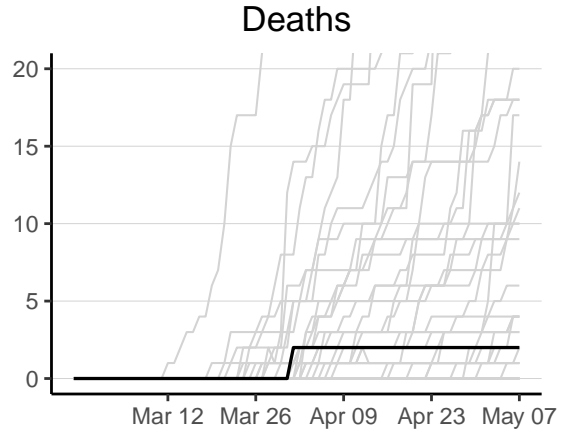
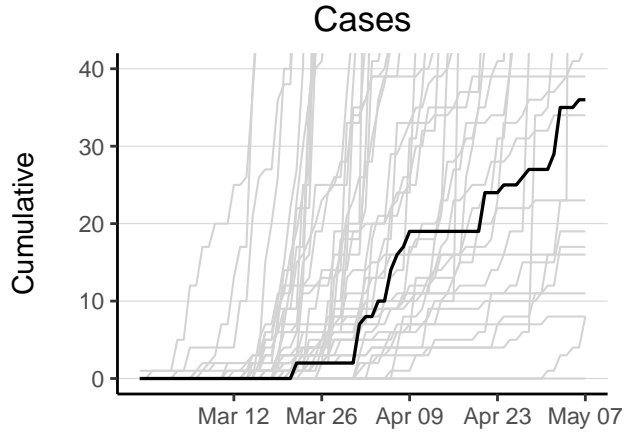
- Top row: cumulative reported cases (left) and deaths (right).
- Middle row: cumulative reported cases (left) and deaths (right) per 10,000 population on a log10 scale.
- Bottom row: relative increase in cumulative number of cases (left) and deaths (right) over the 7 day period leading up to 07/05/2020.



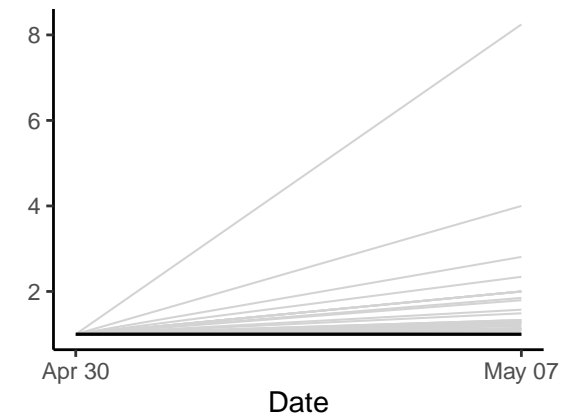
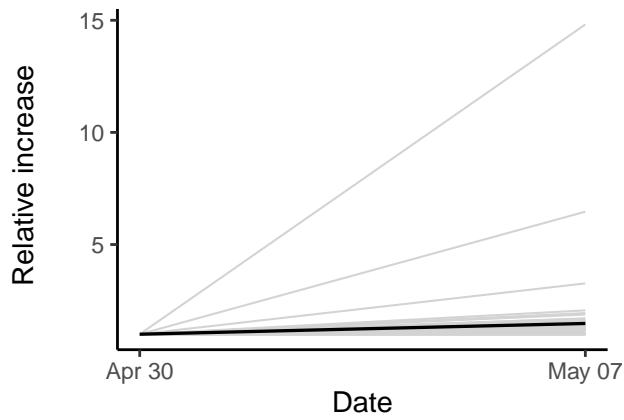
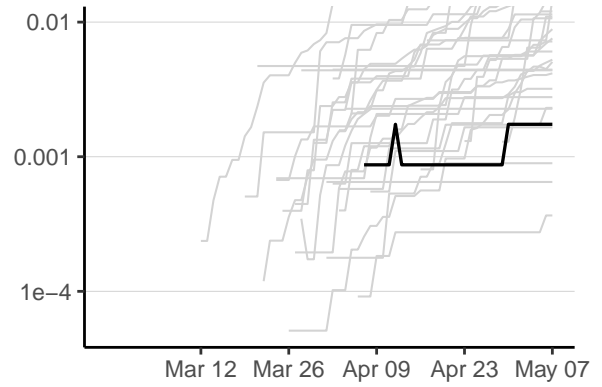
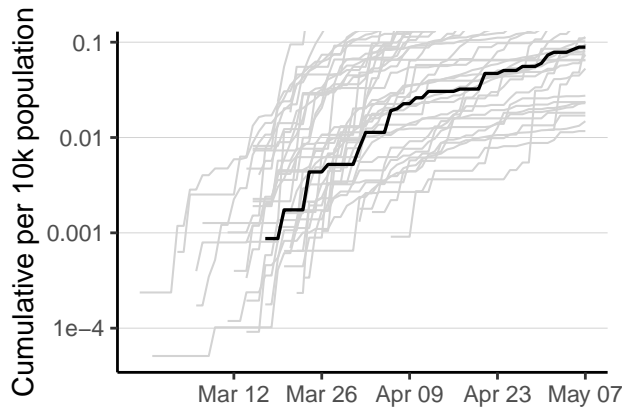
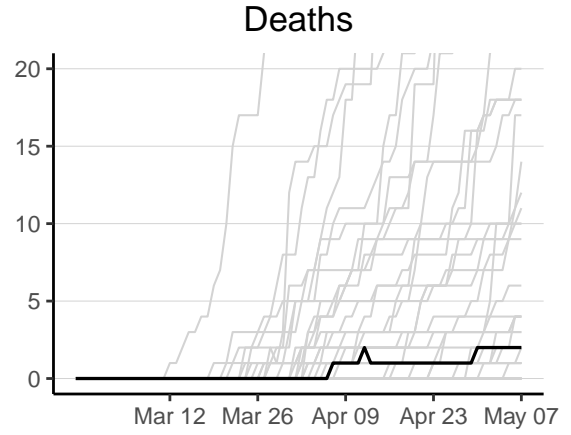
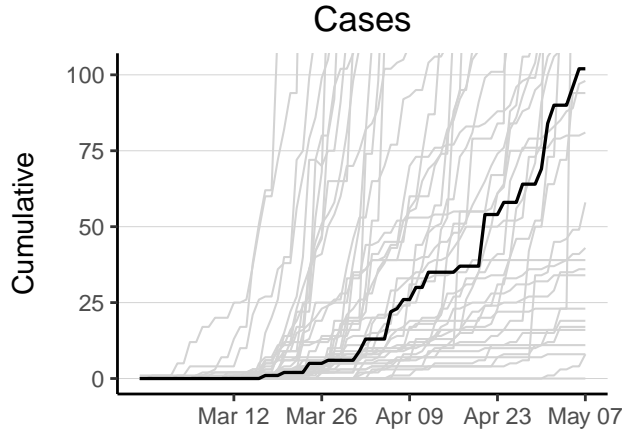
# Algeria



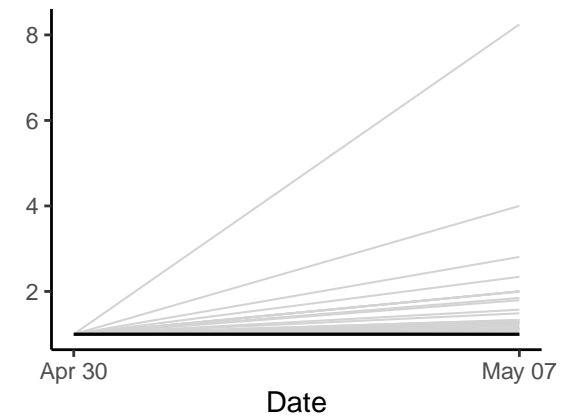
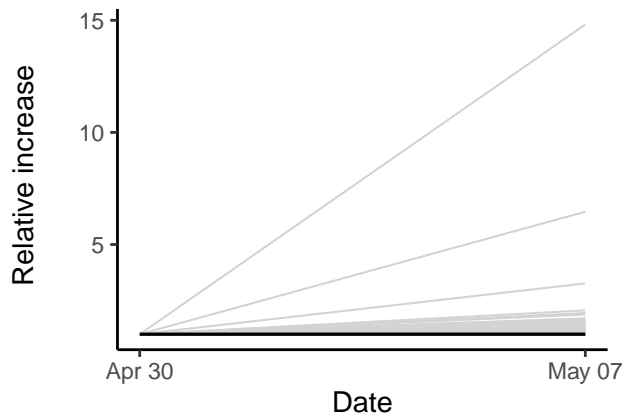
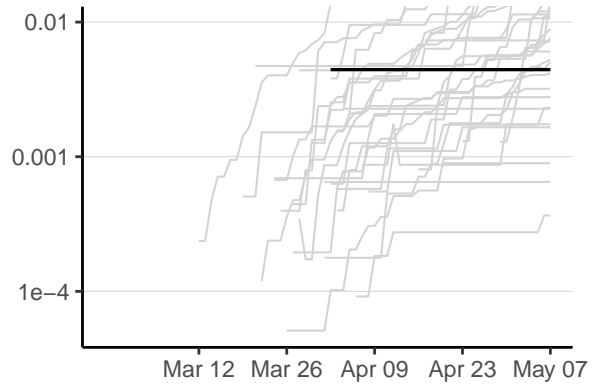
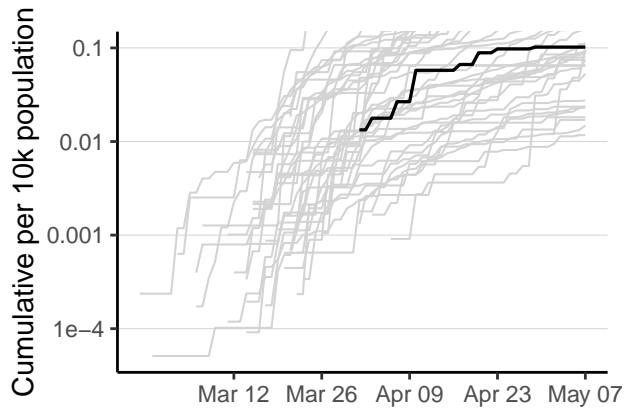
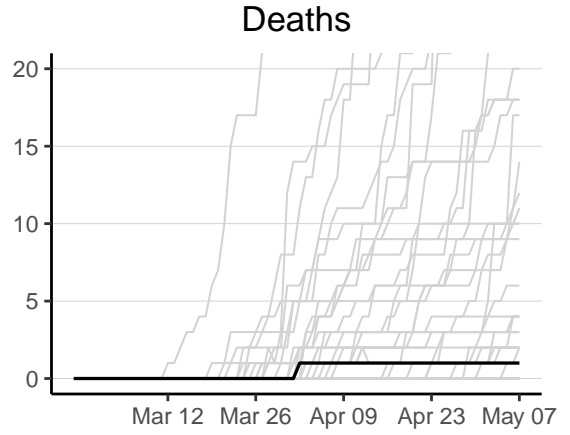
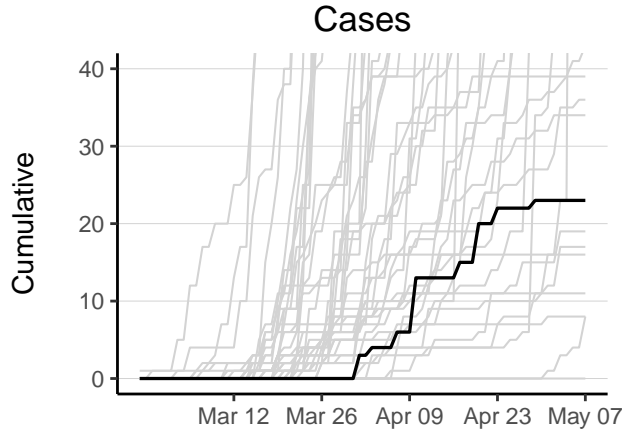
# Angola



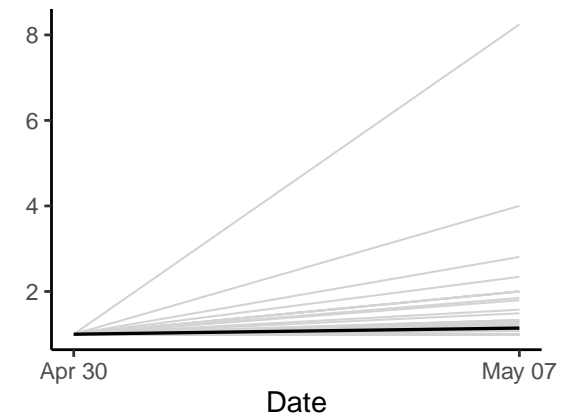
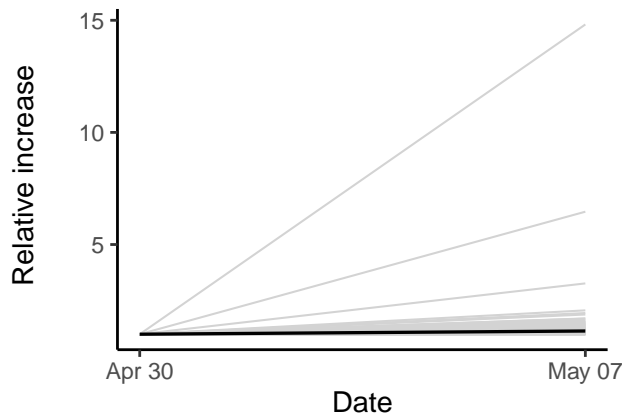
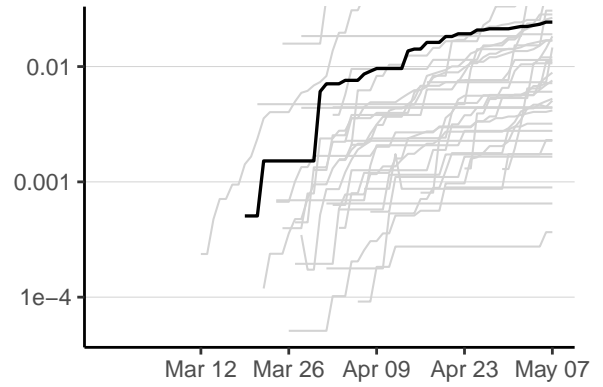
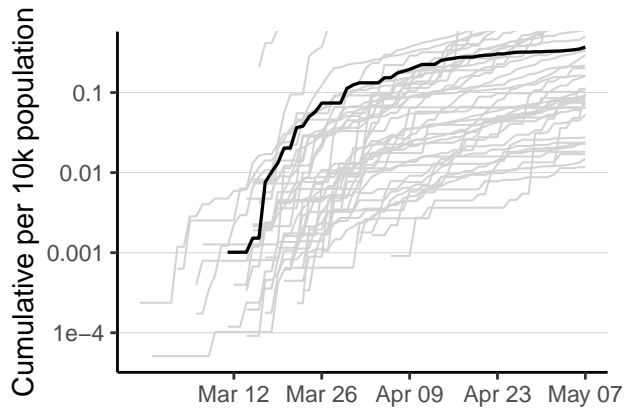
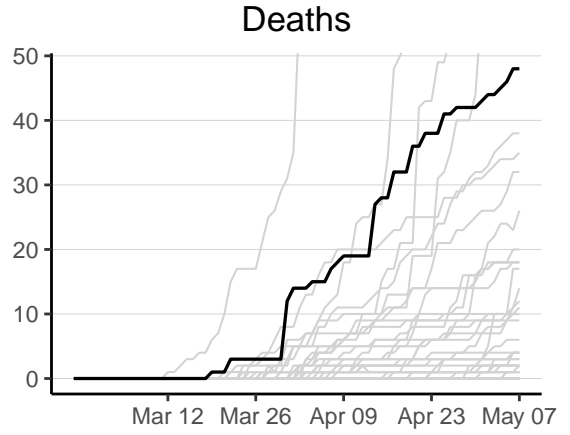
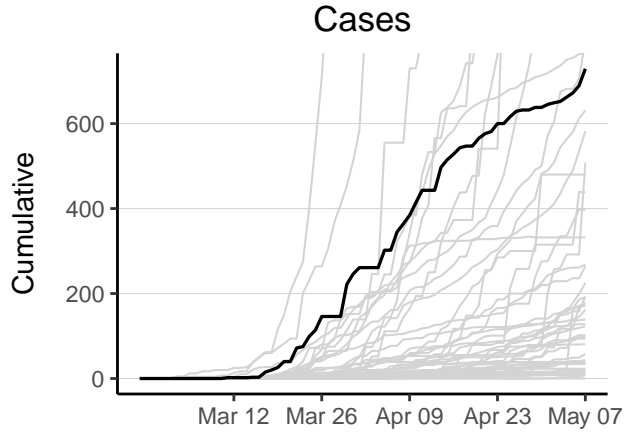
# Benin



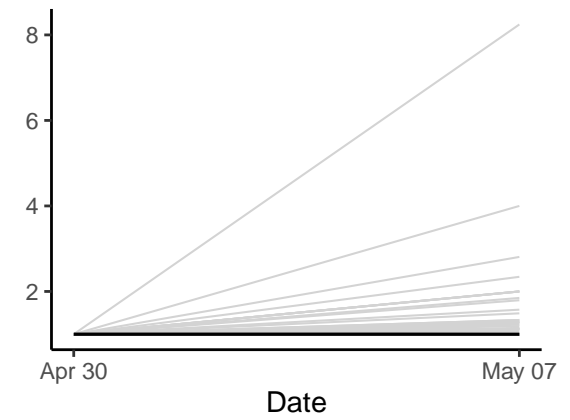
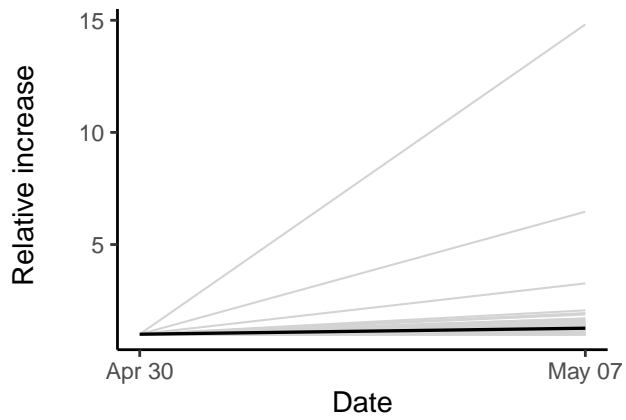
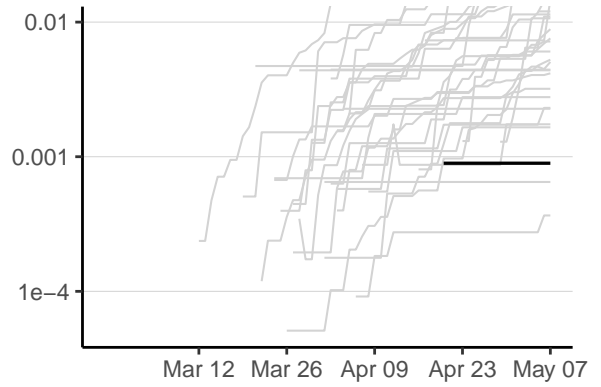
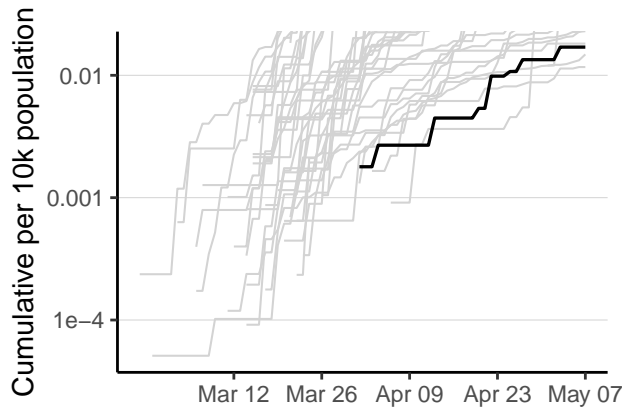
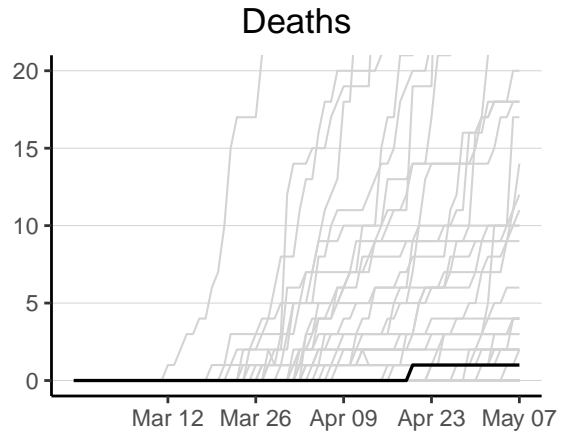
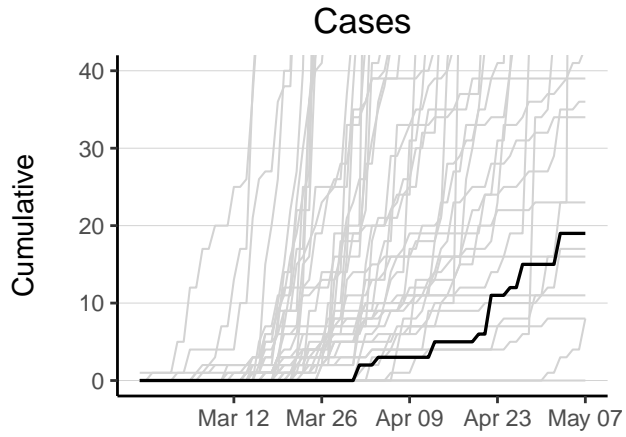
# Botswana



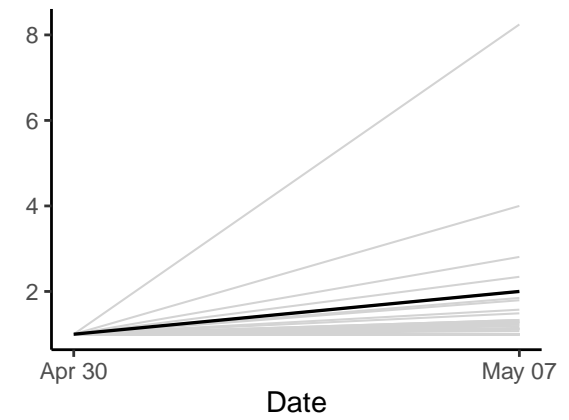
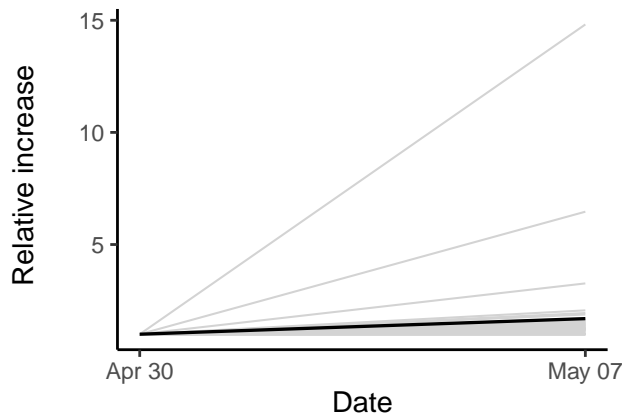
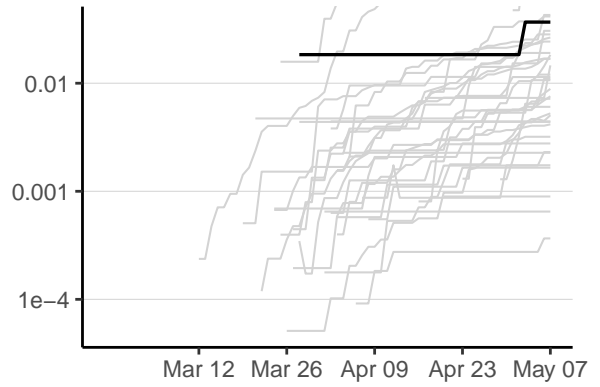
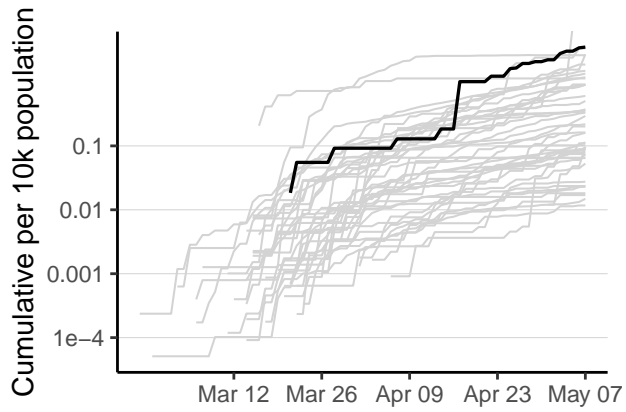
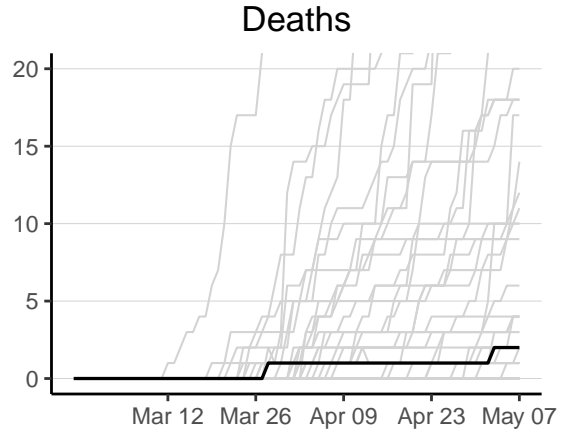
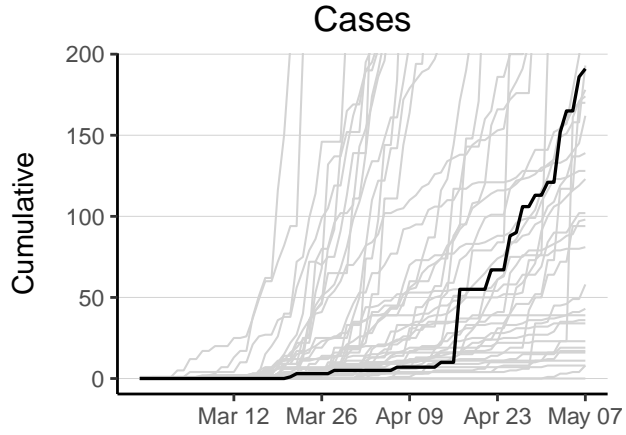
# Burkina Faso



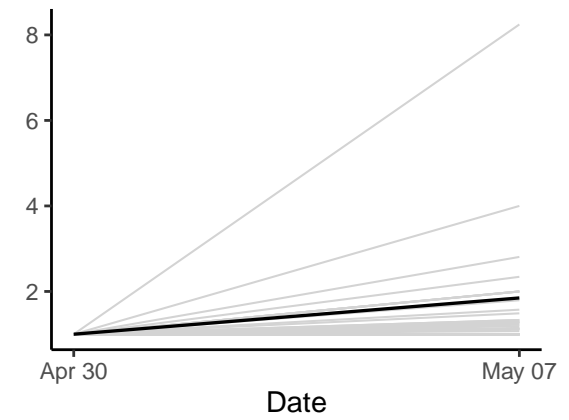
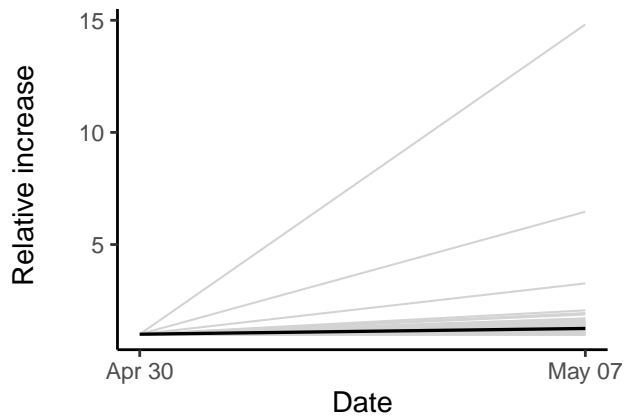
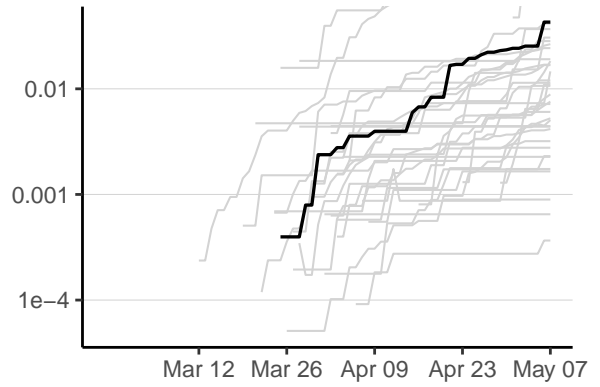
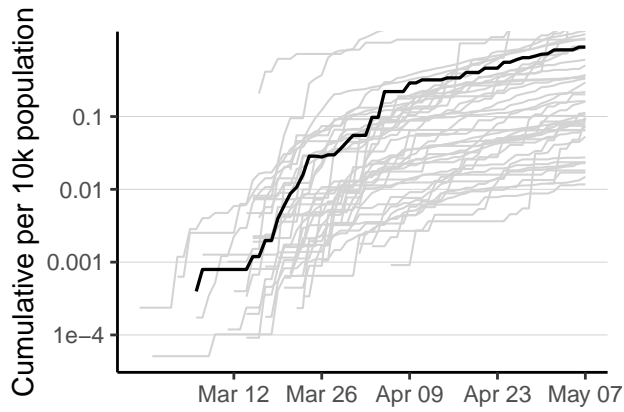
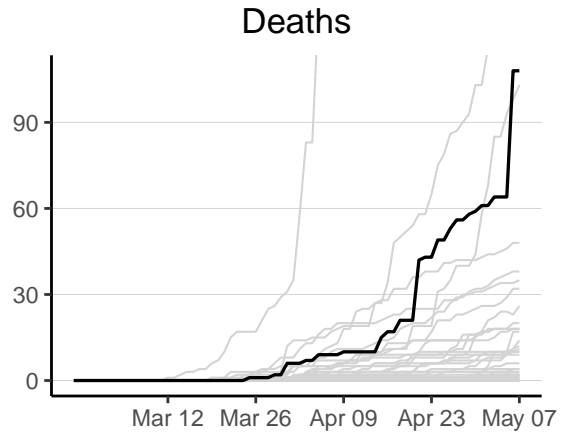
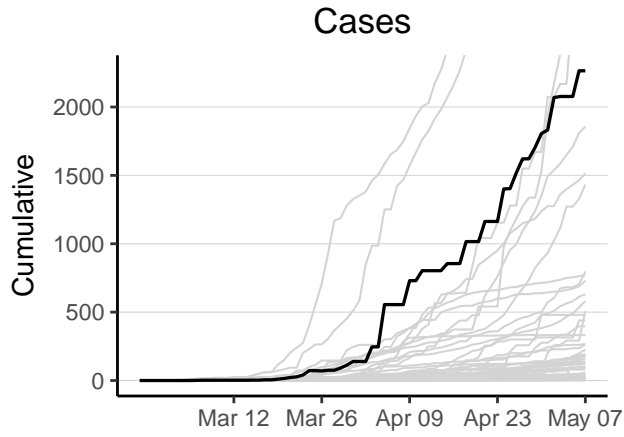
# Burundi



# Cabo Verde

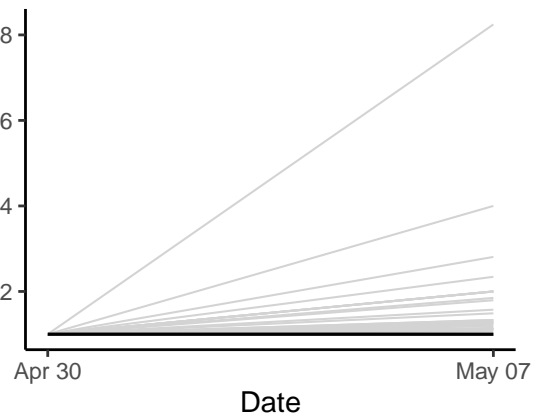
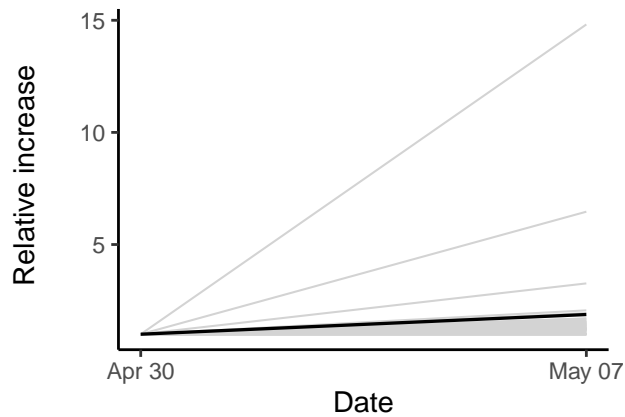
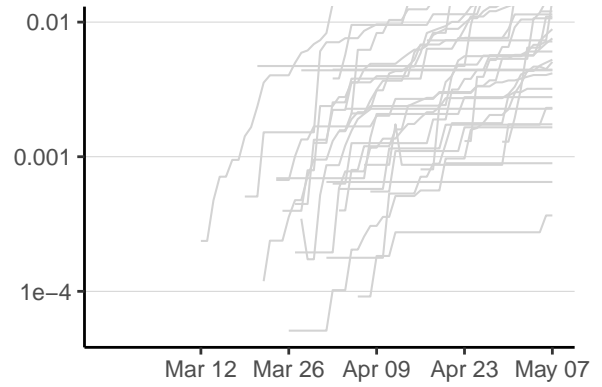
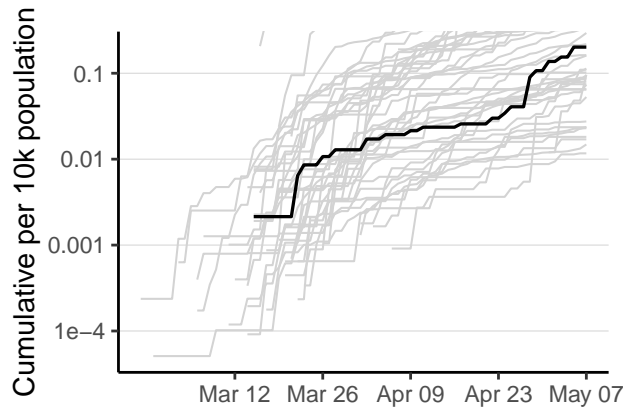
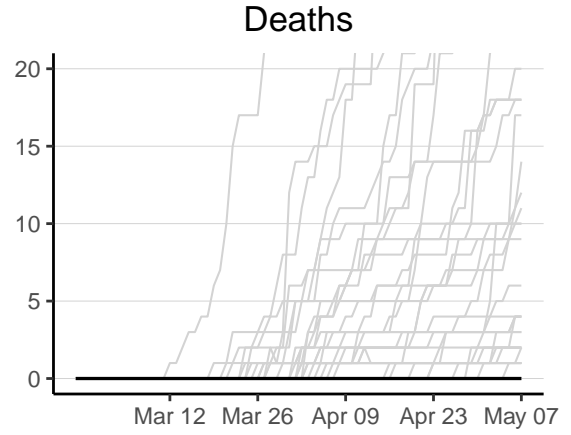
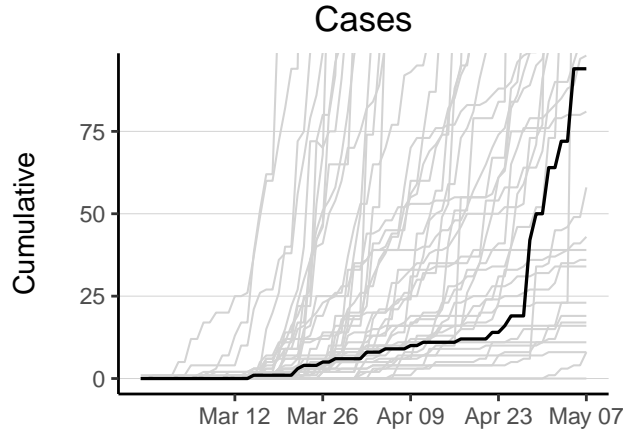


# Cameroon

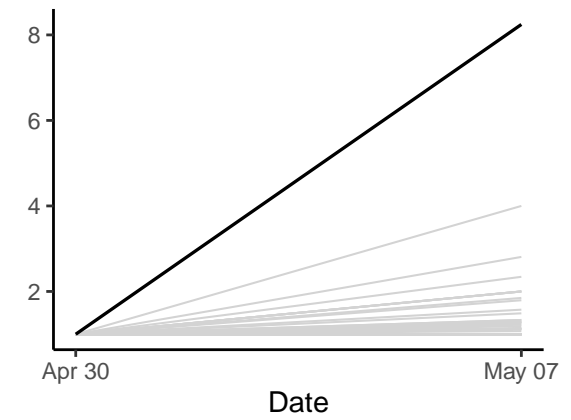
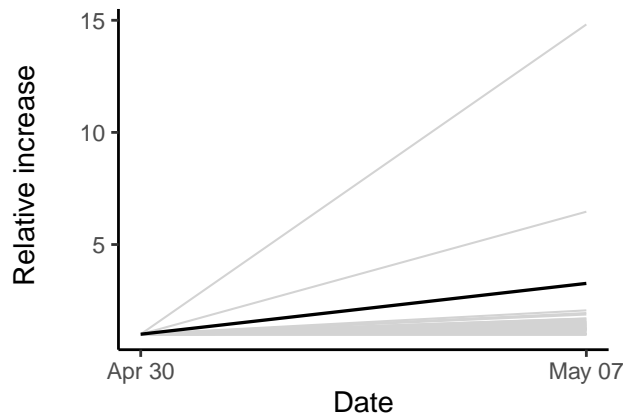
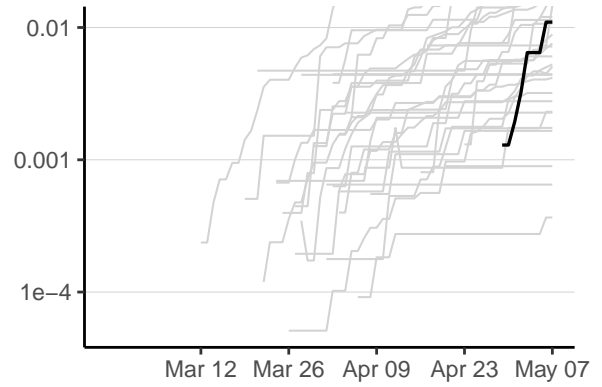
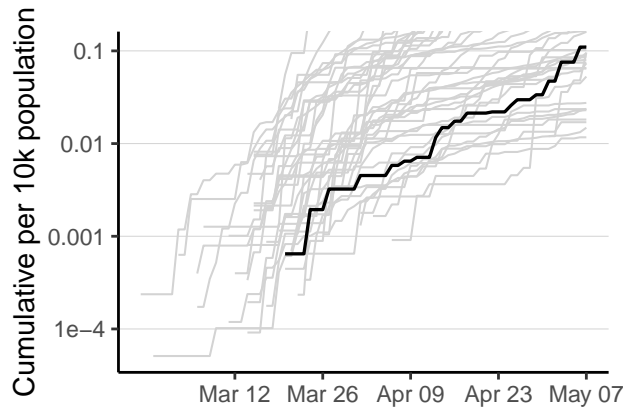
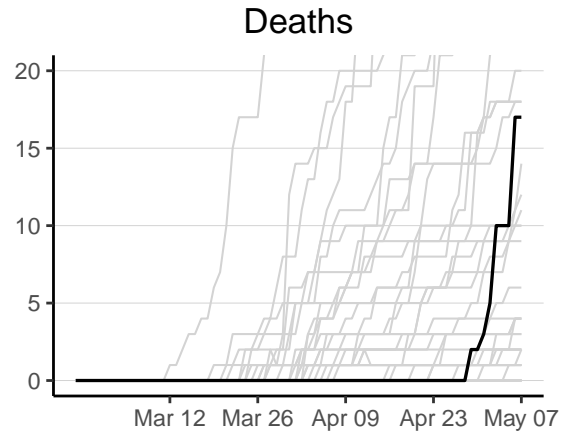
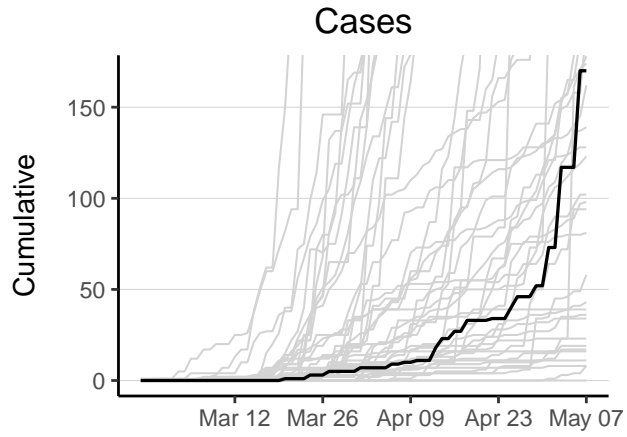




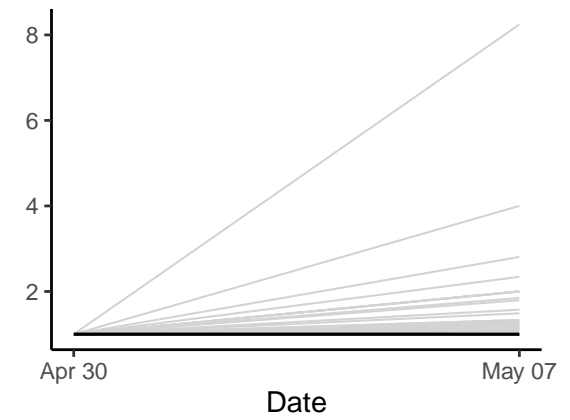
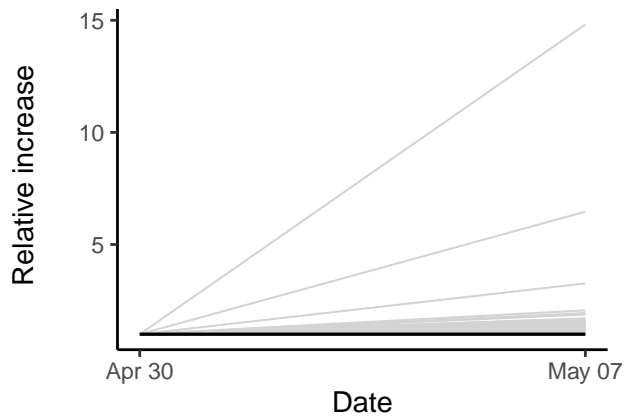
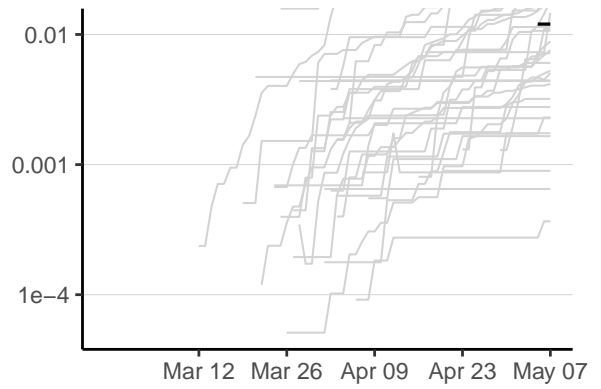
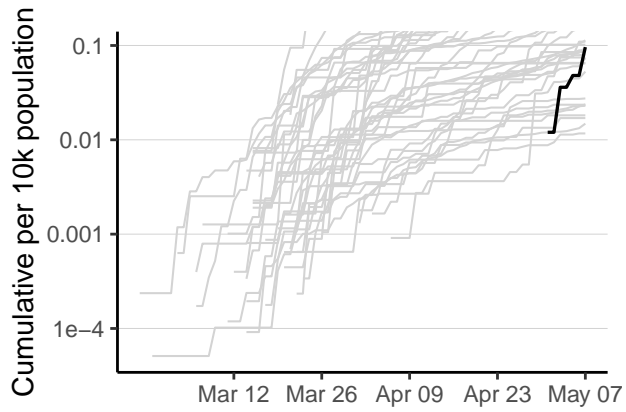
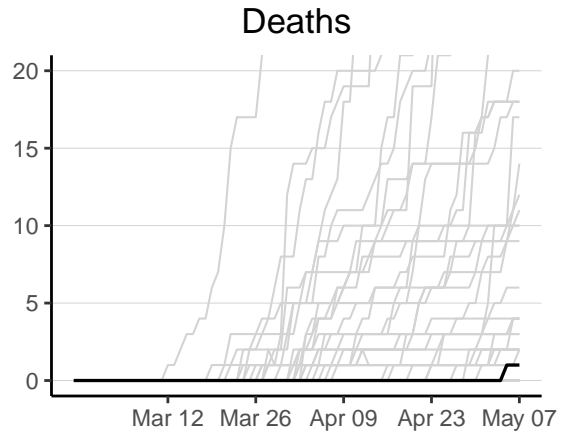
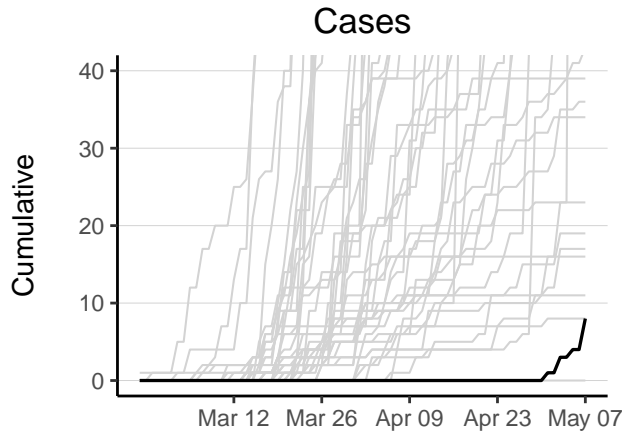
# Central African Republic



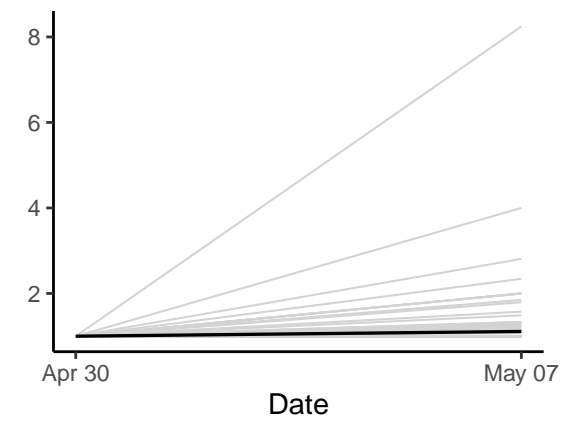
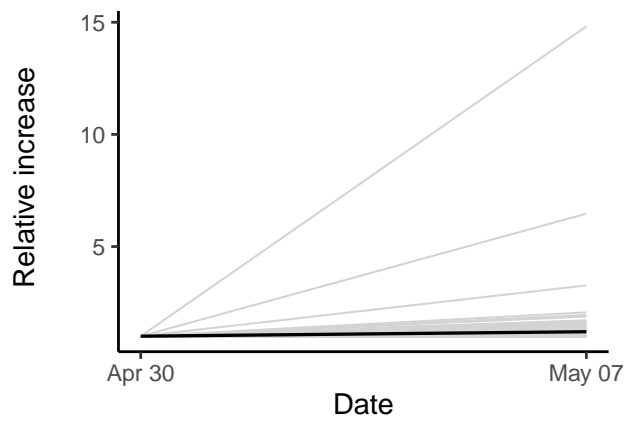
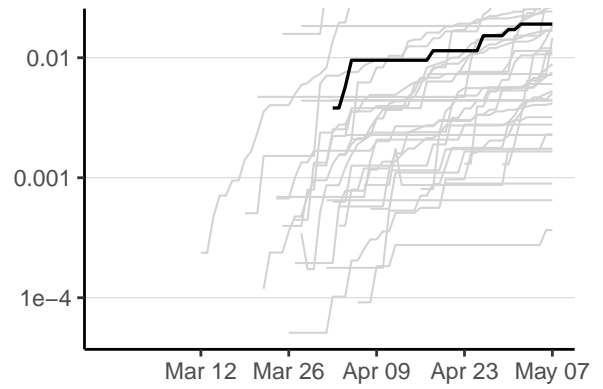
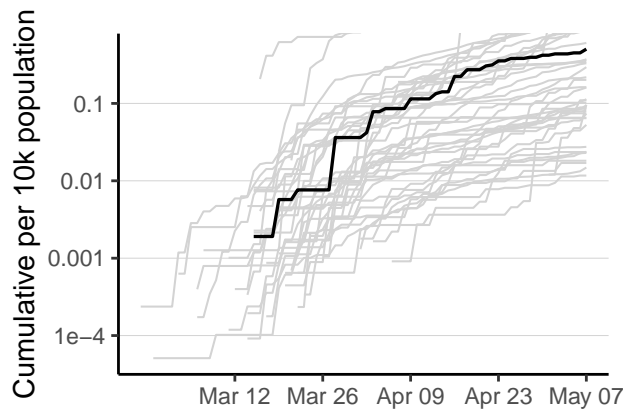
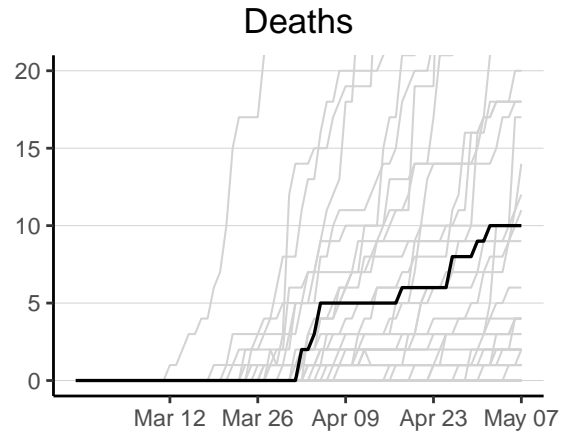
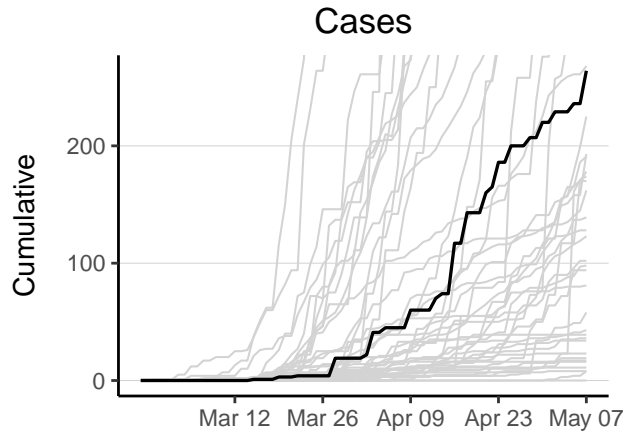
# Chad



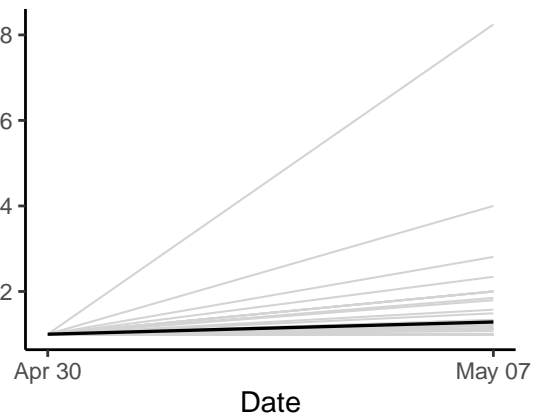
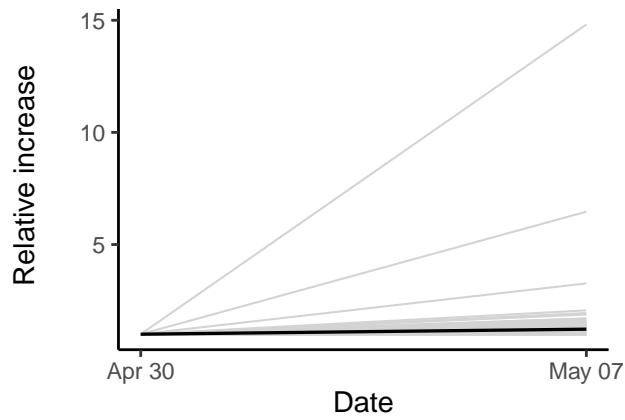
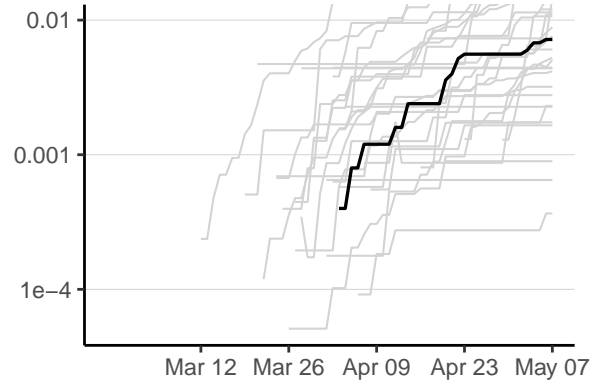
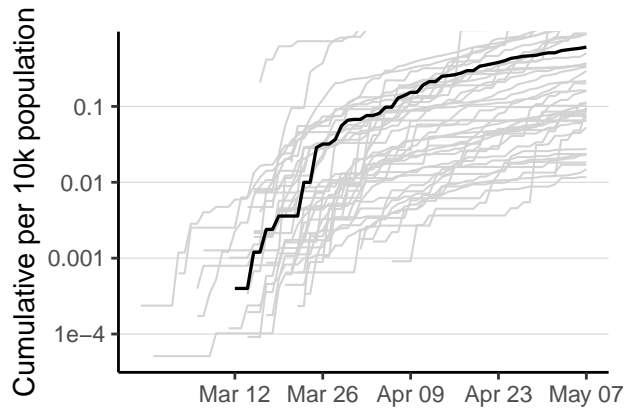
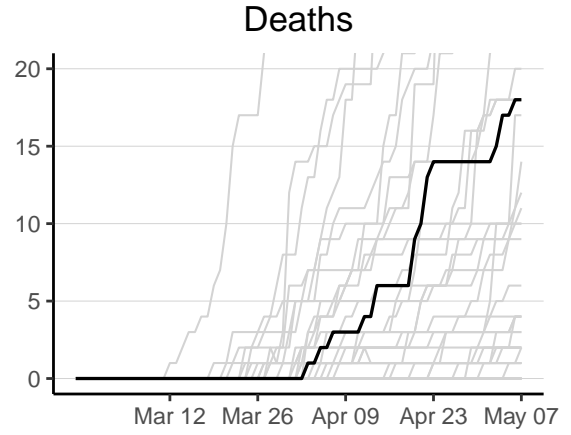
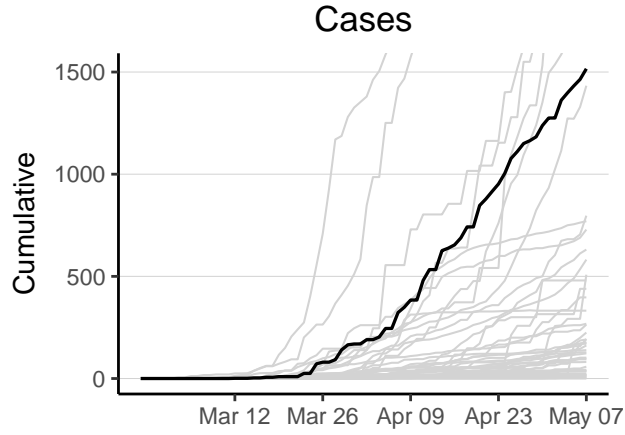
# Comoros



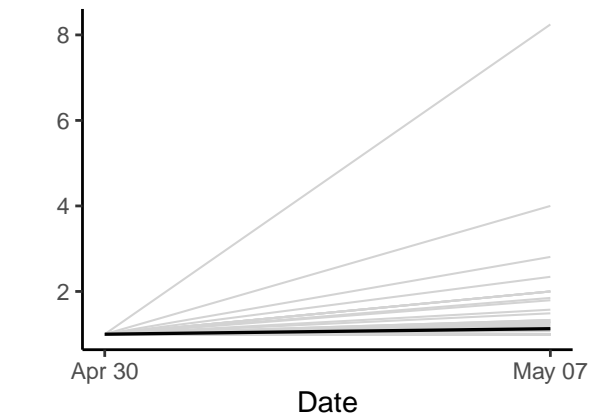
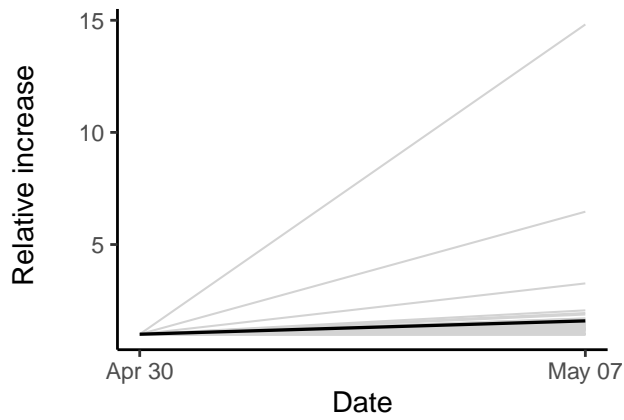
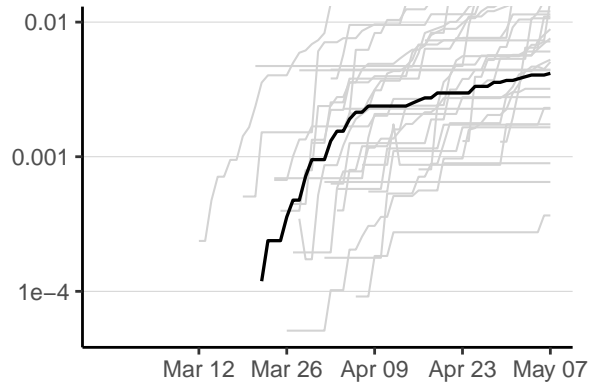
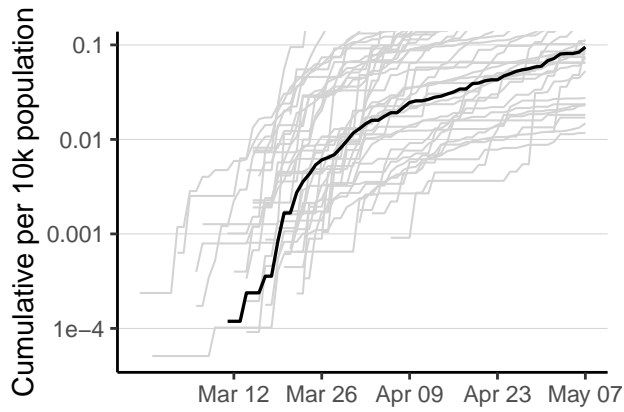
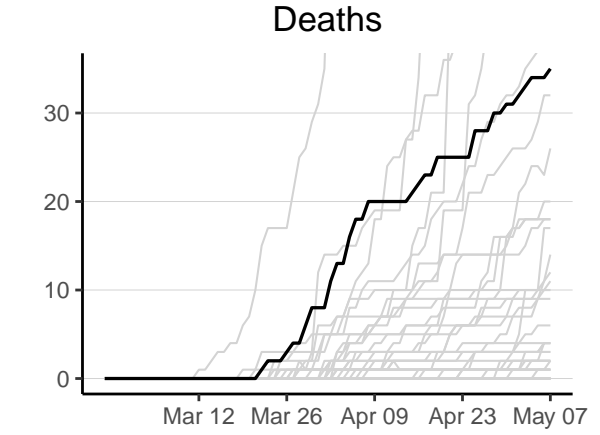
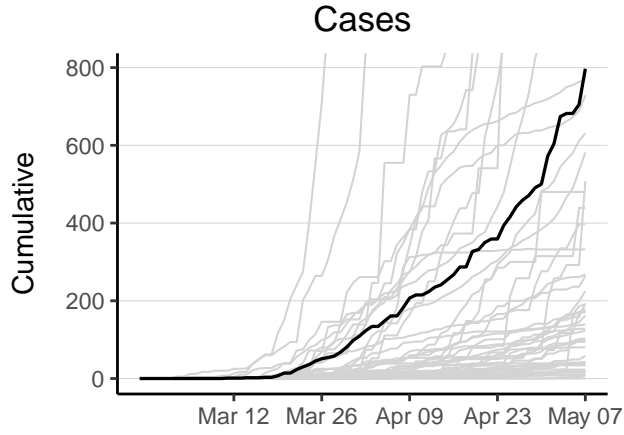
# Congo



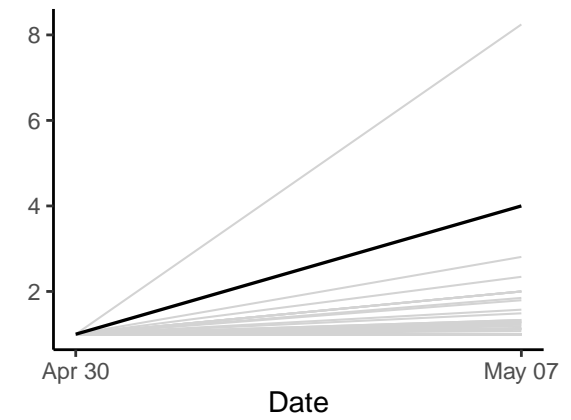
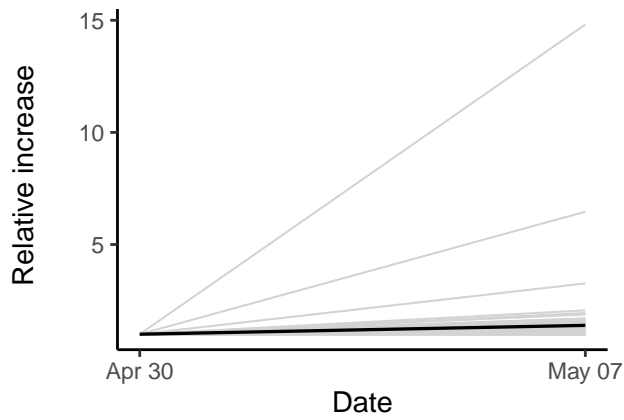
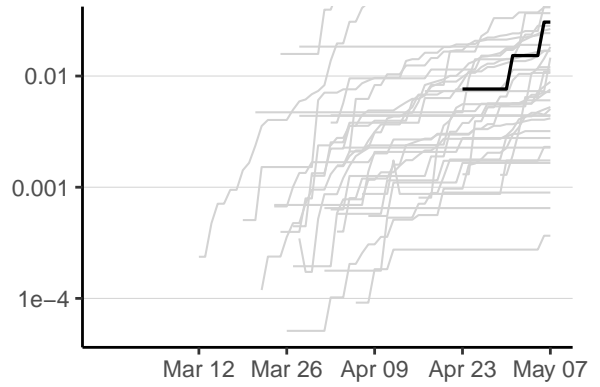
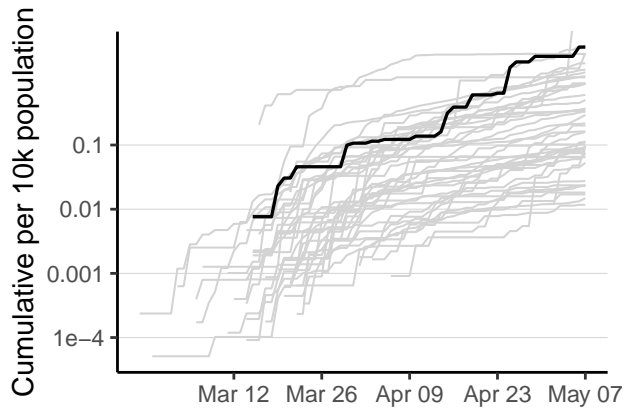
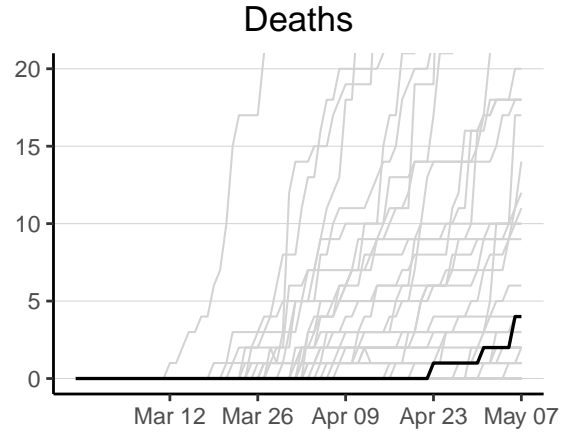
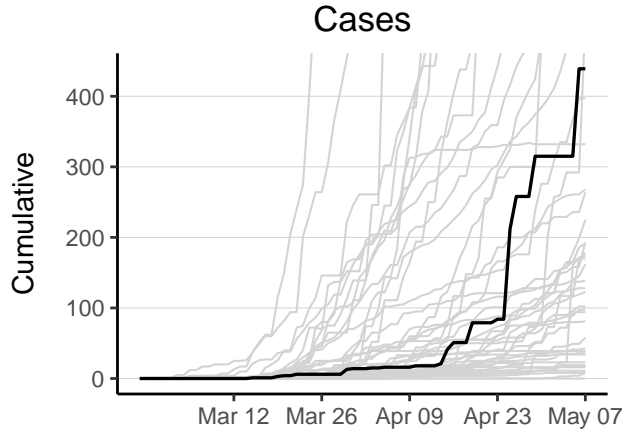
# Cote d'Ivoire



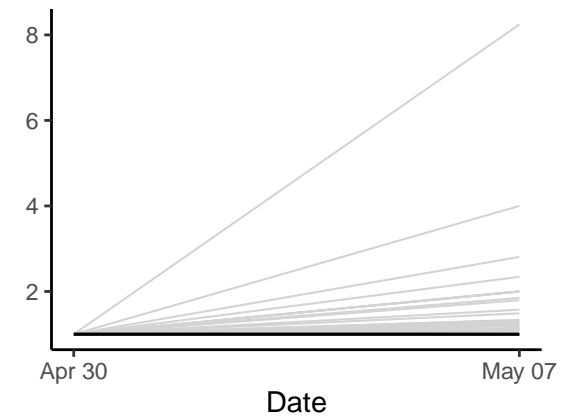
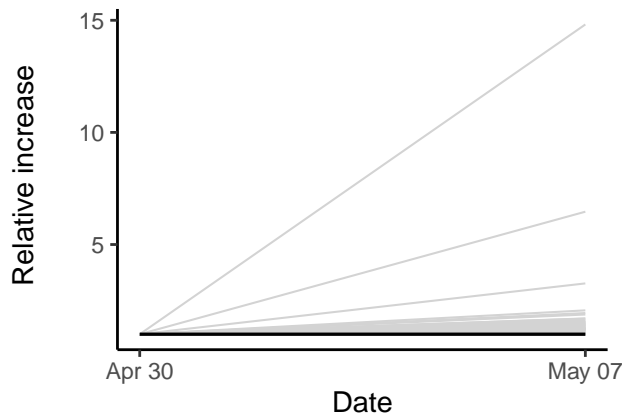
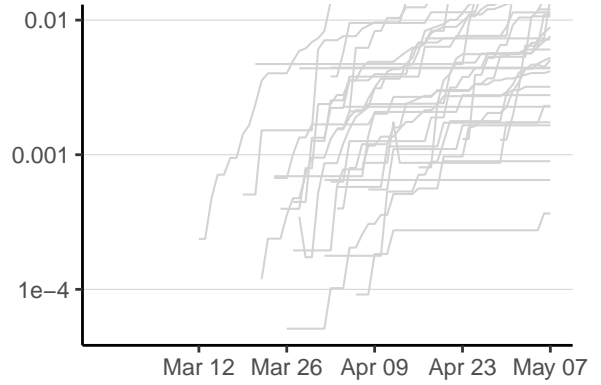
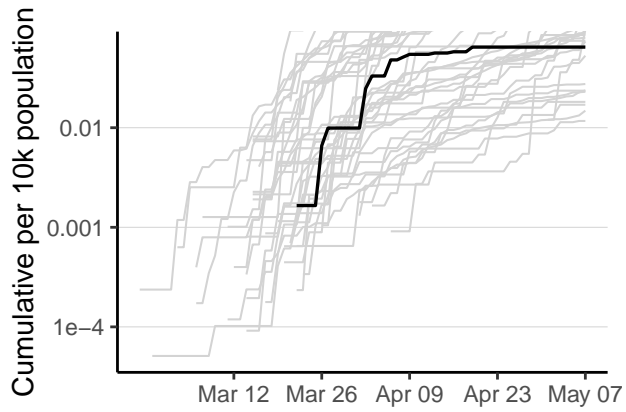
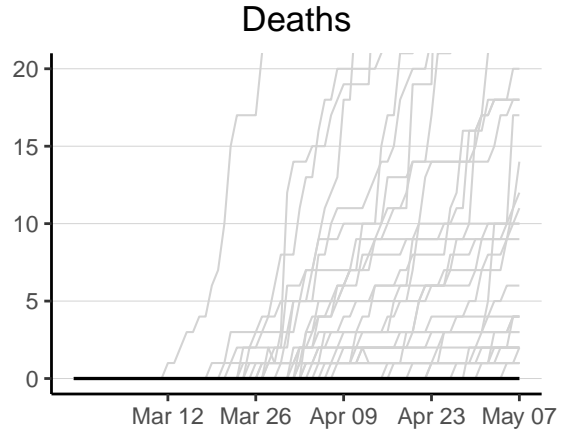
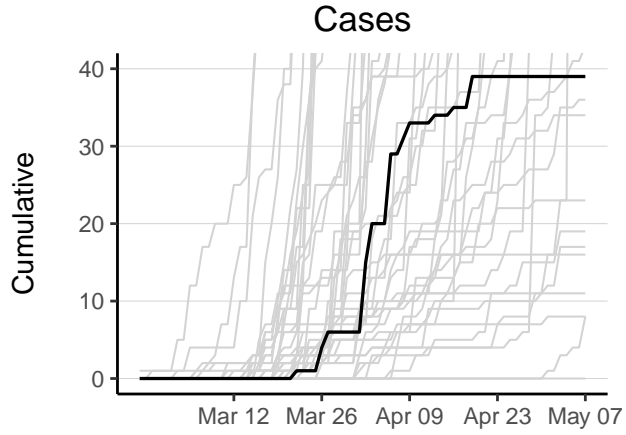
# Democratic Republic of the Congo



# Equatorial Guinea

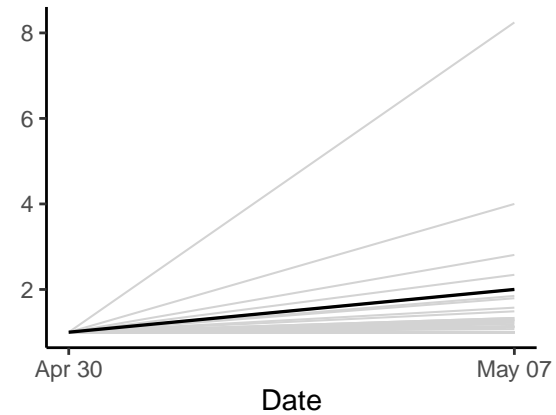
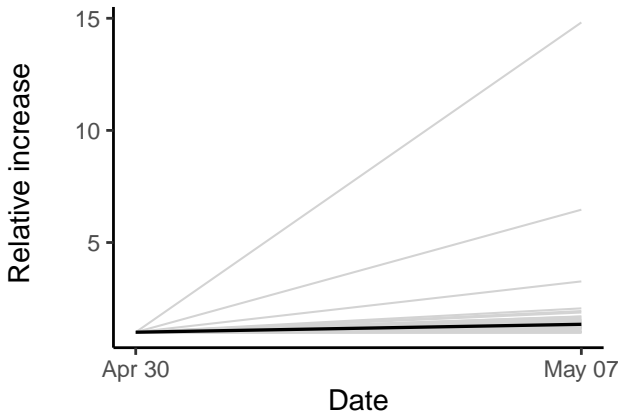
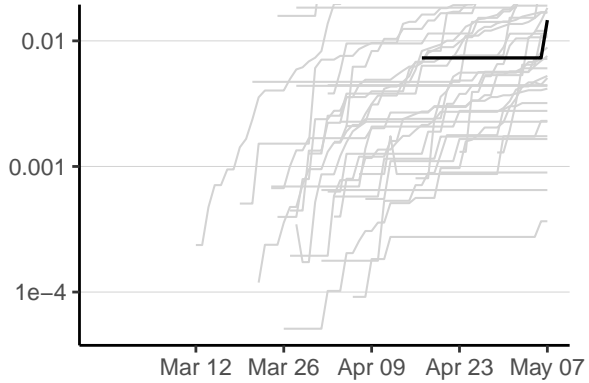
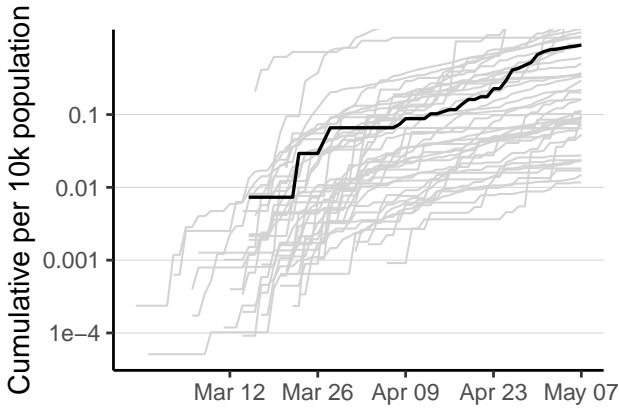
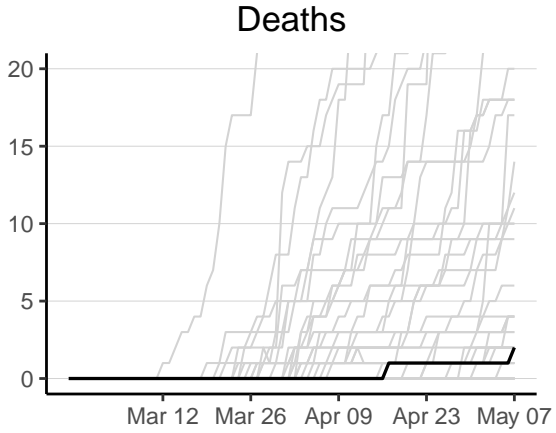
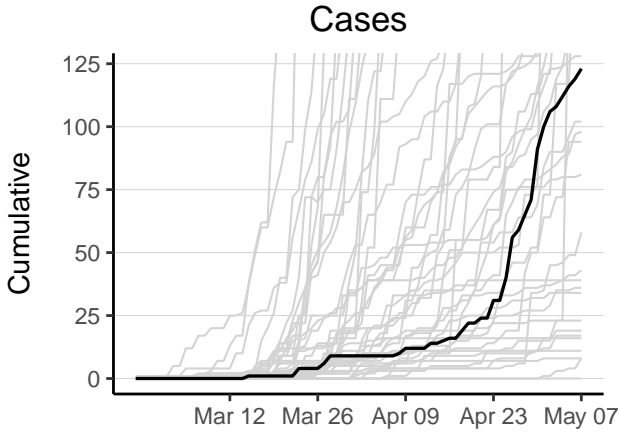


# Eritrea

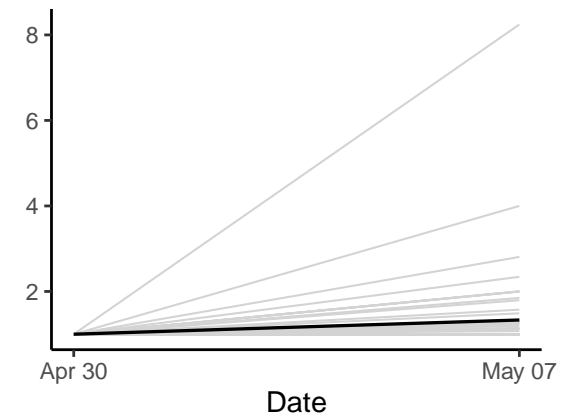
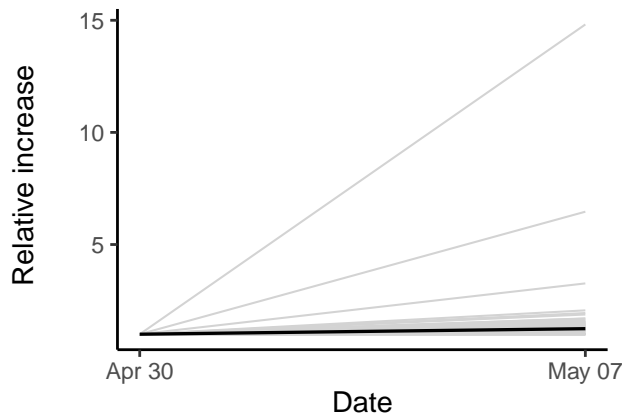
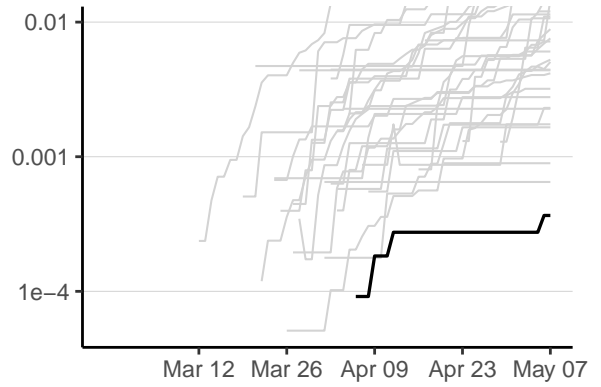
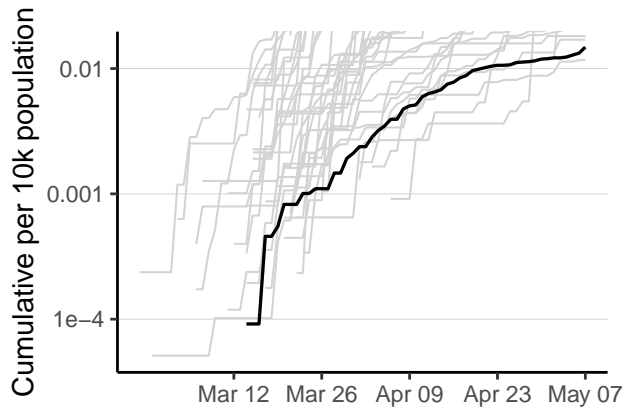
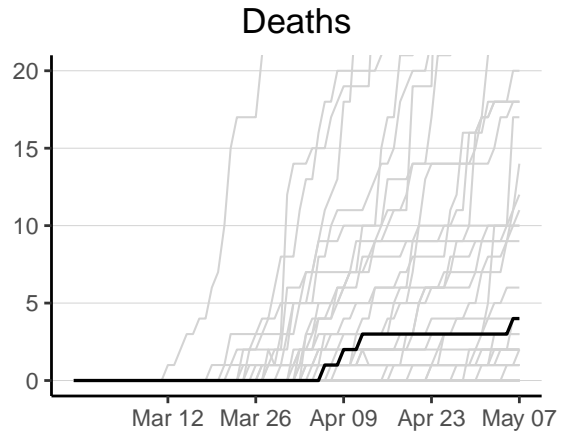
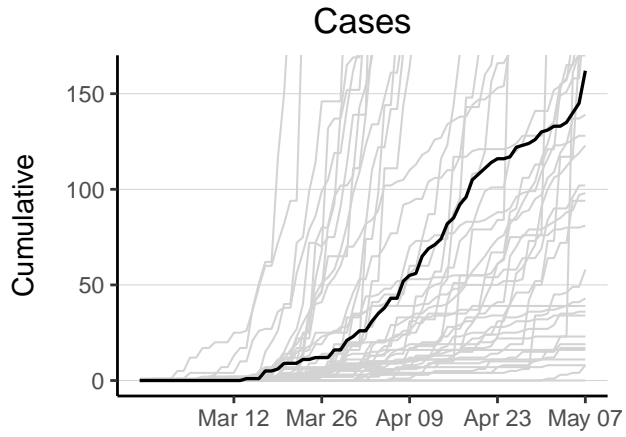




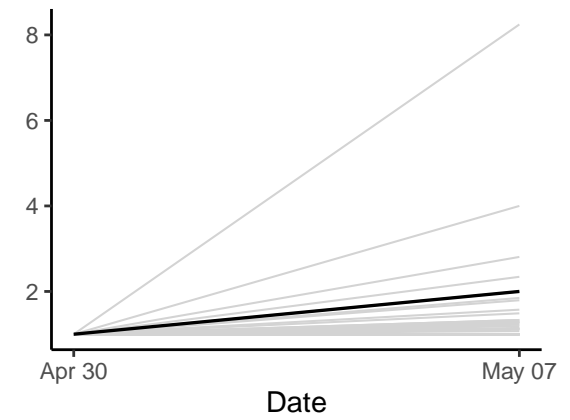
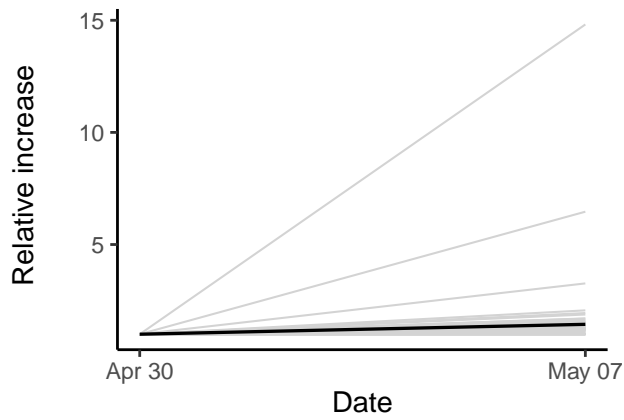
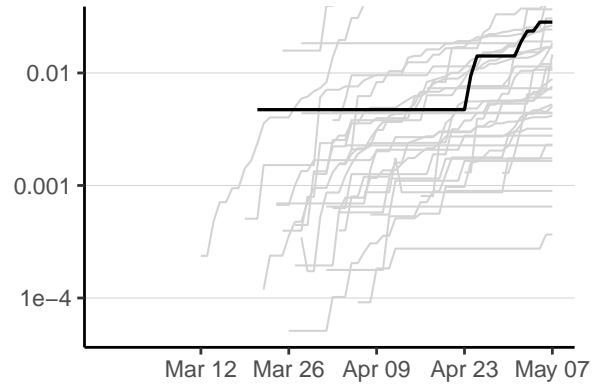
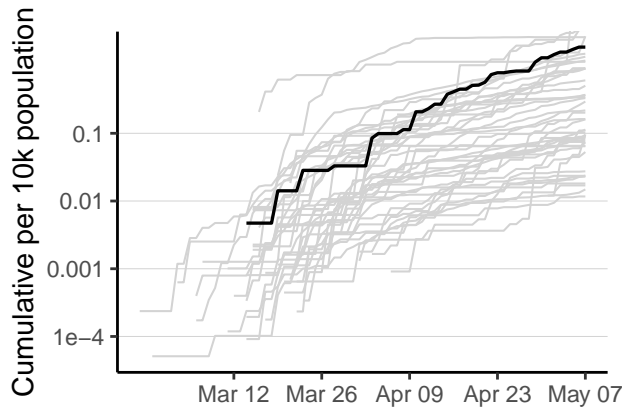
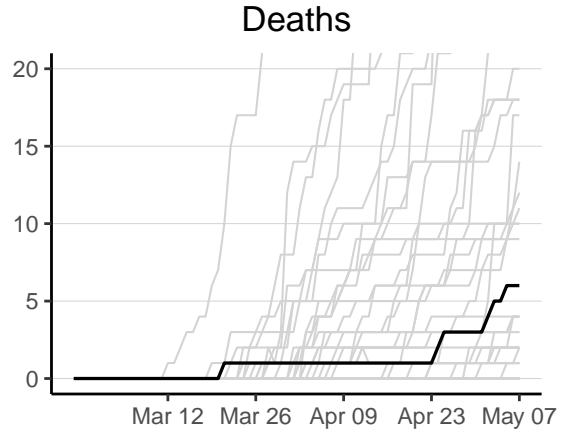
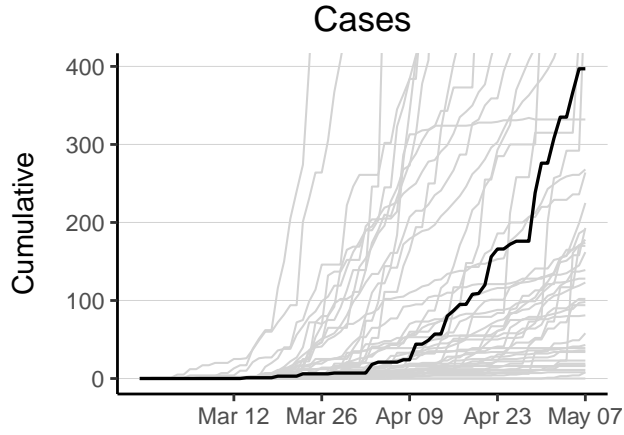
# Eswatini



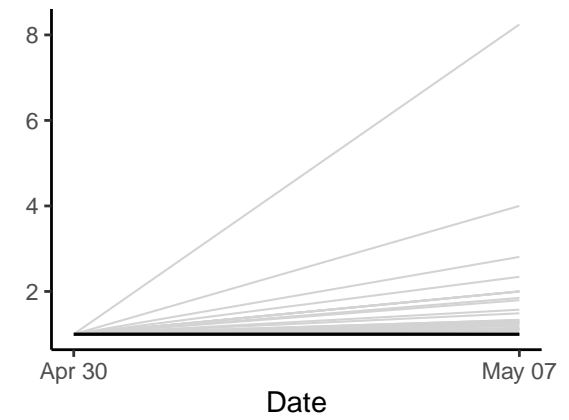
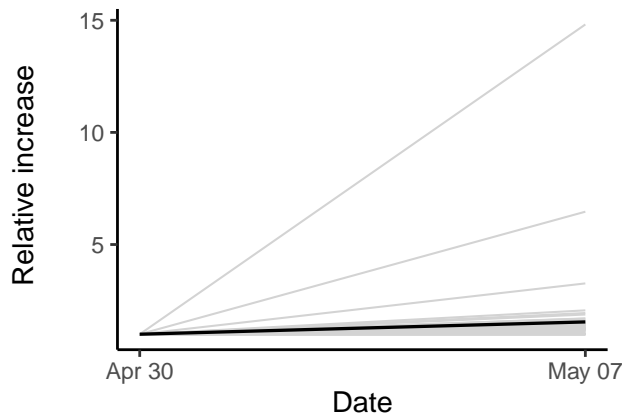
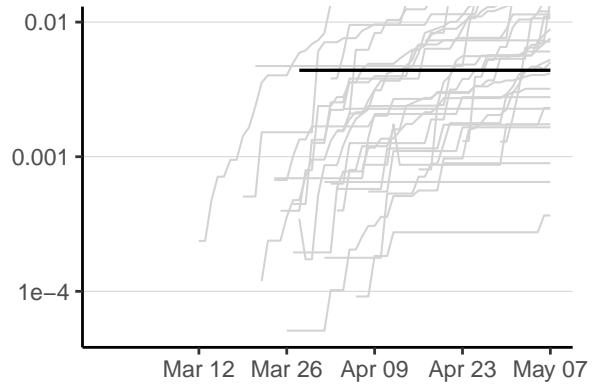
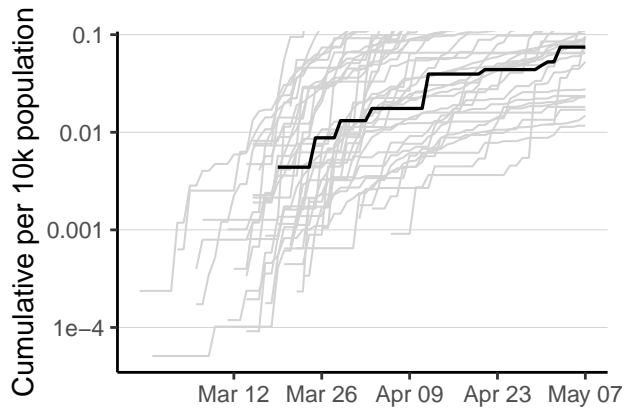
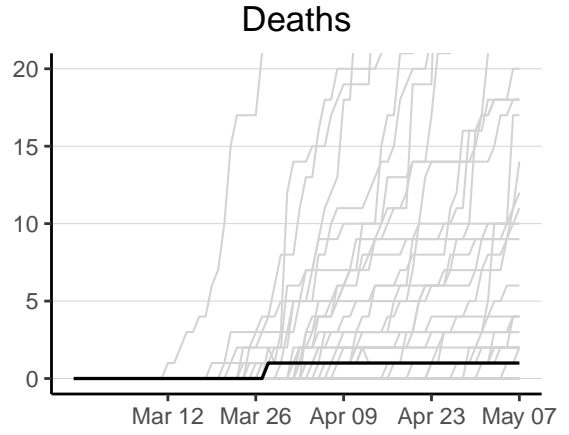
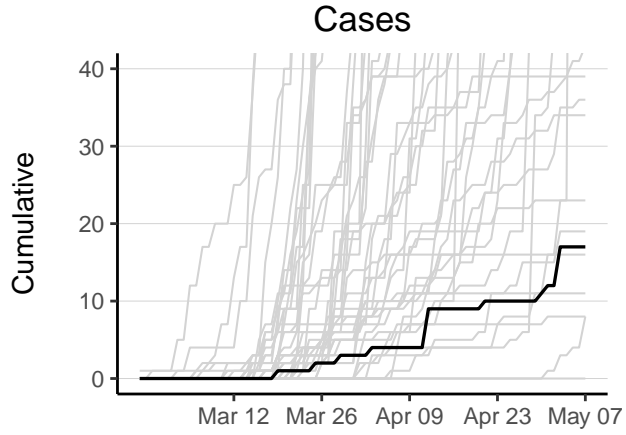
# Ethiopia



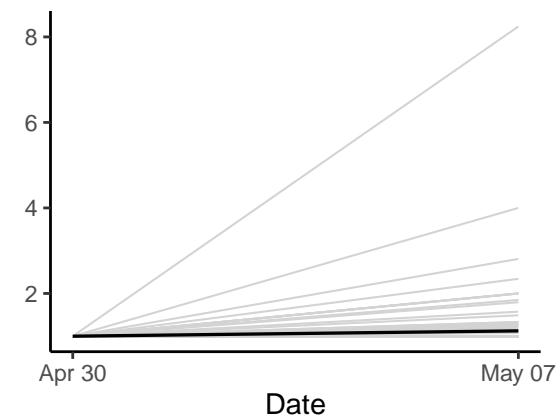
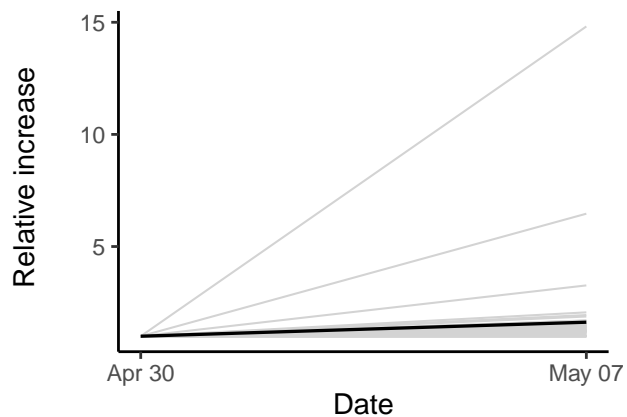
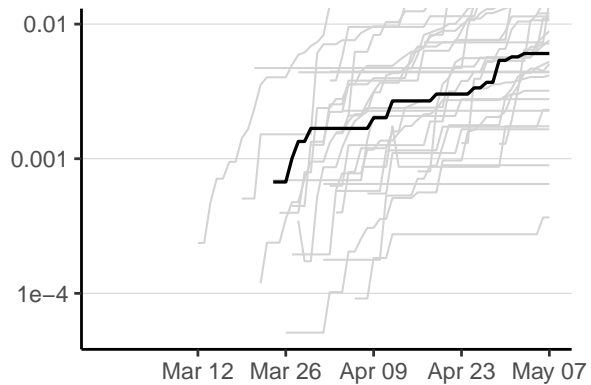
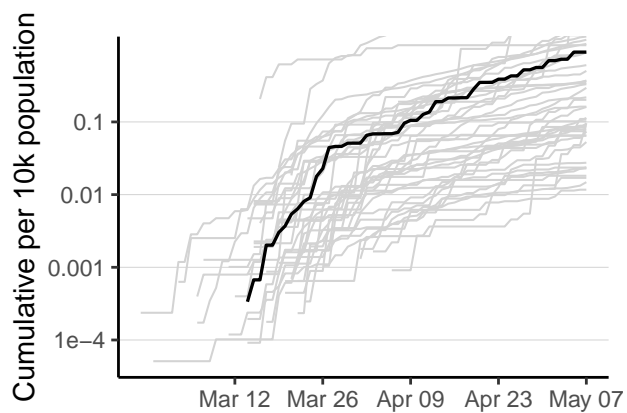
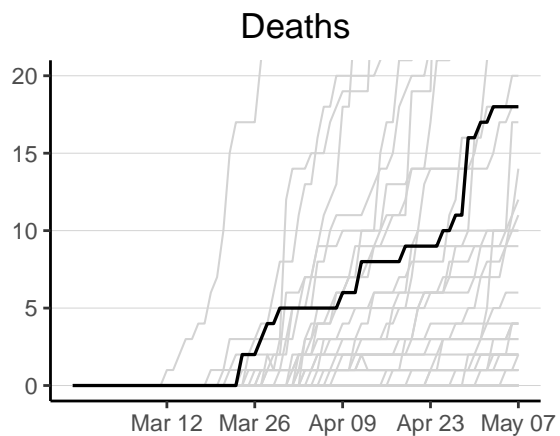
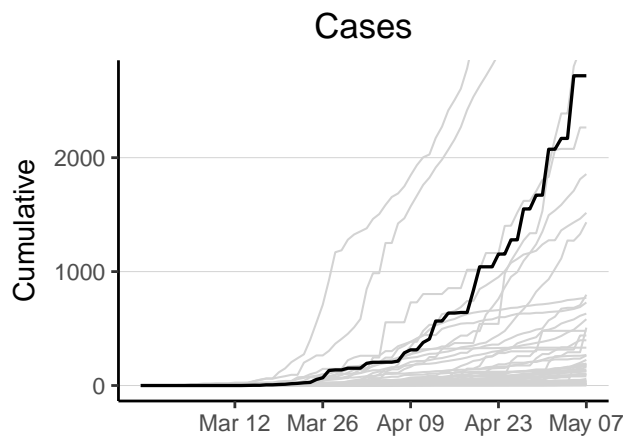
# Gabon



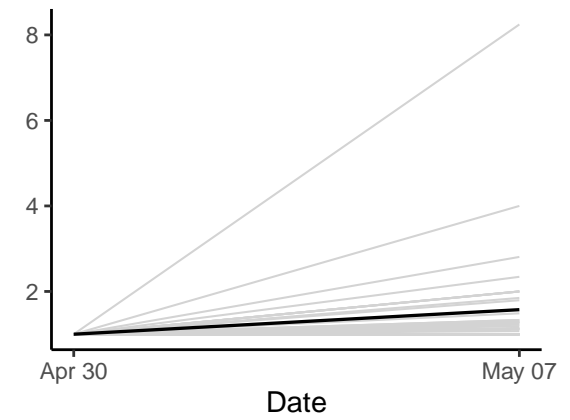
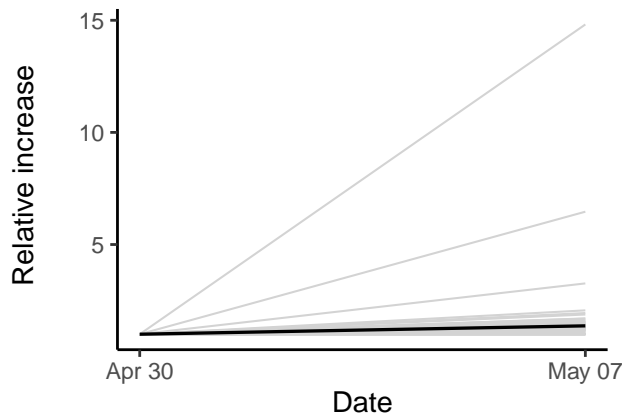
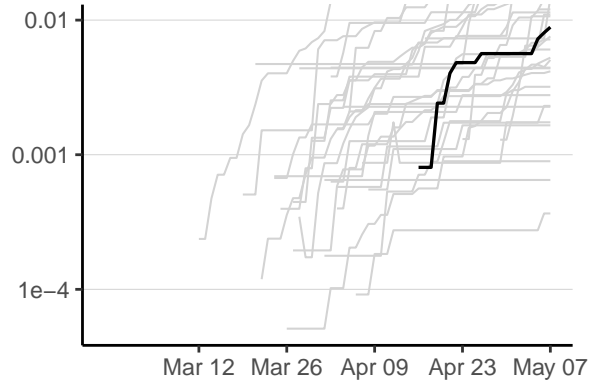
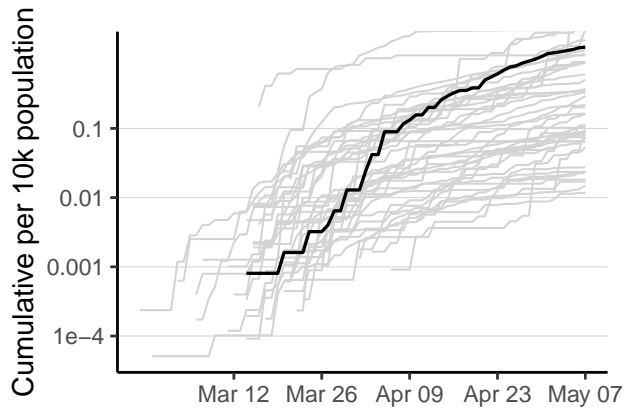
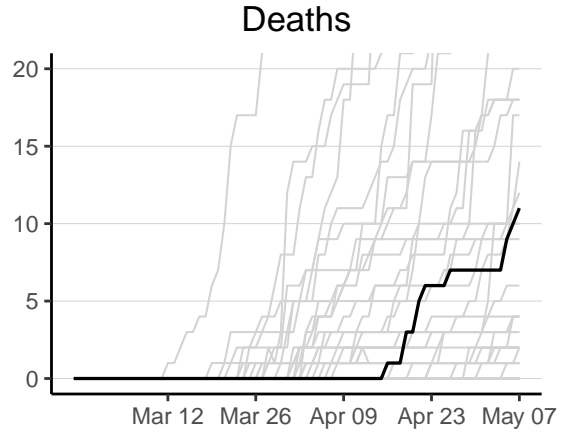
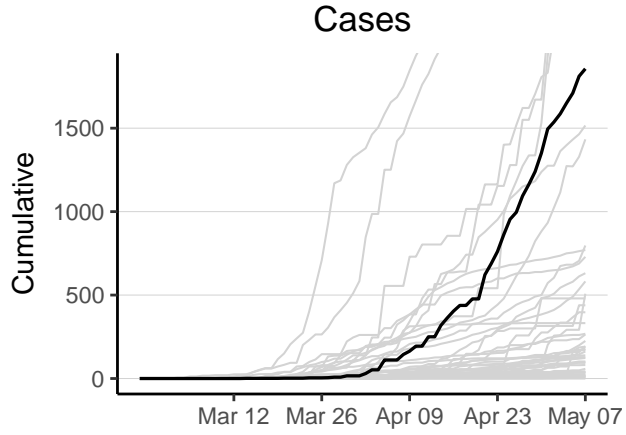
# Gambia



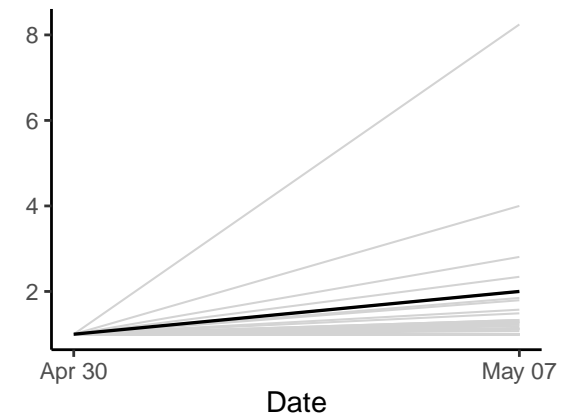
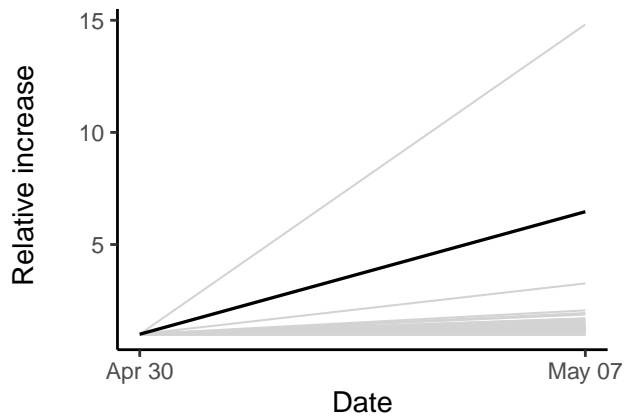
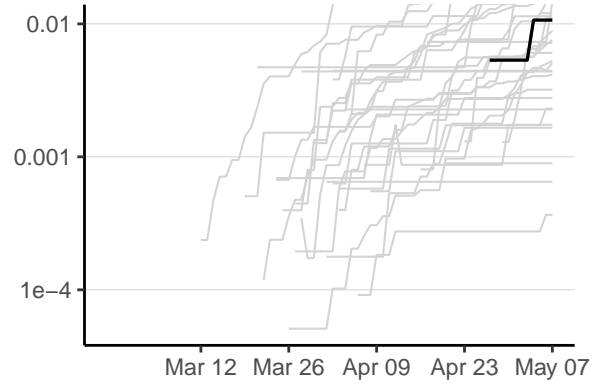
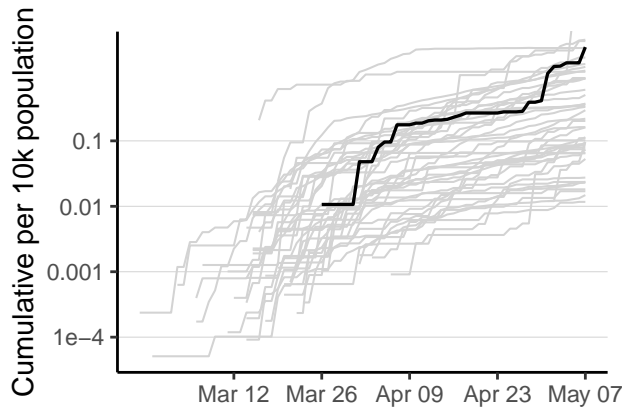
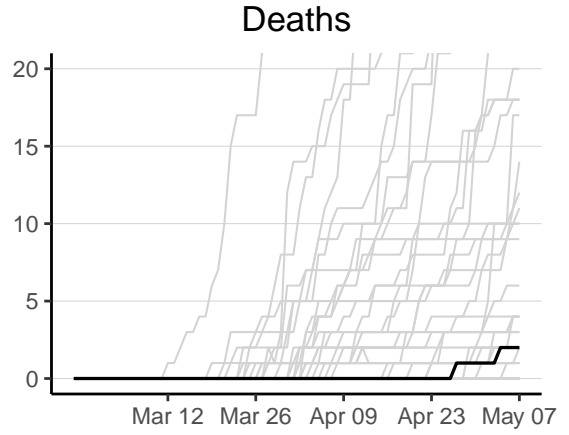
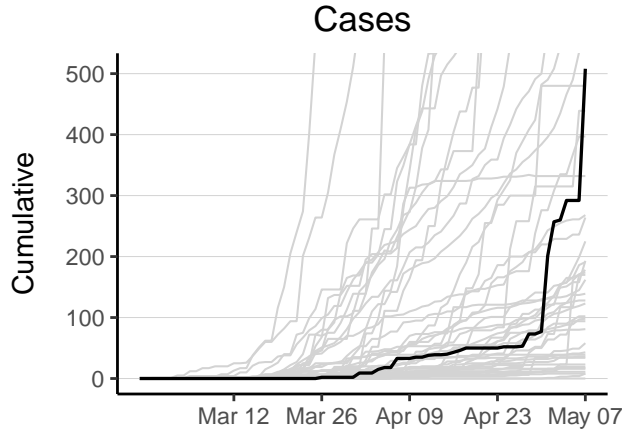
# Ghana



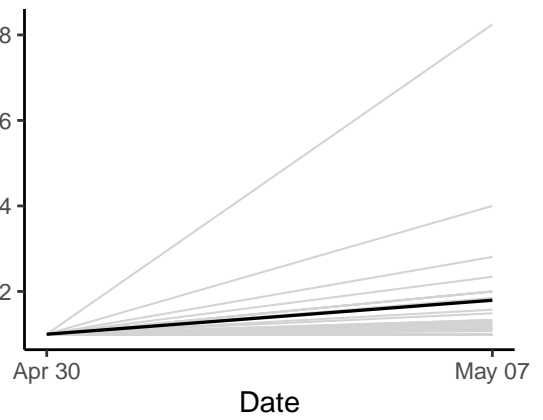
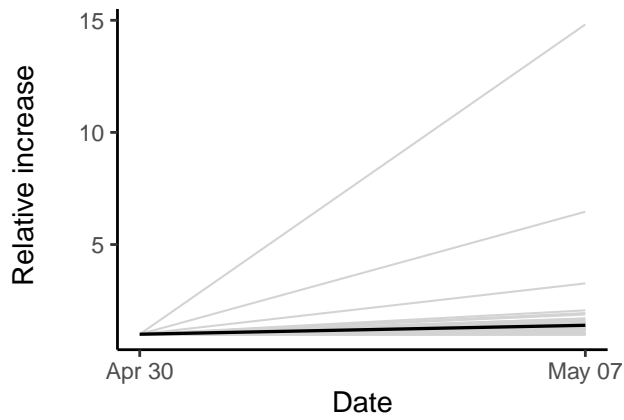
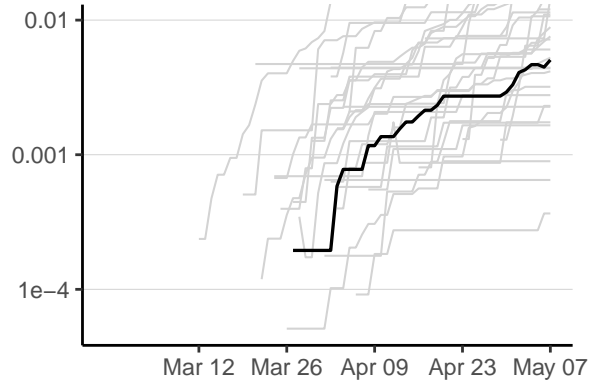
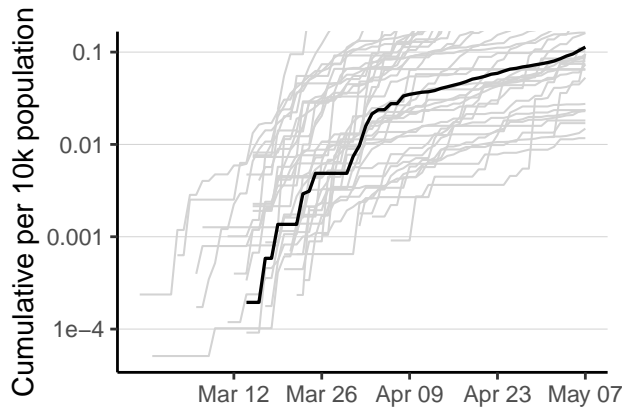
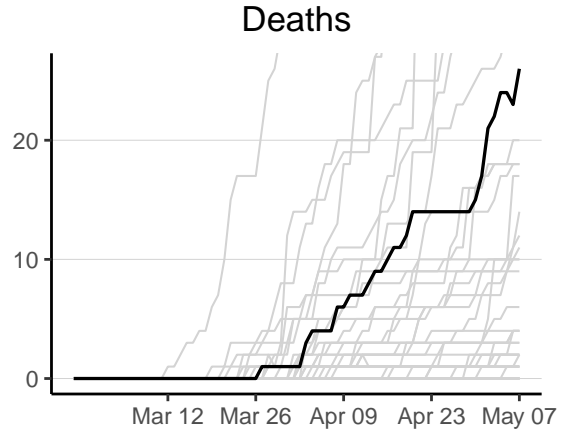
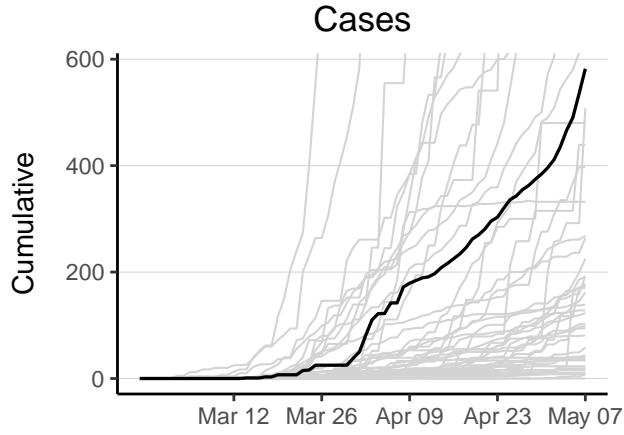
# Guinea



# Guinea-Bissau

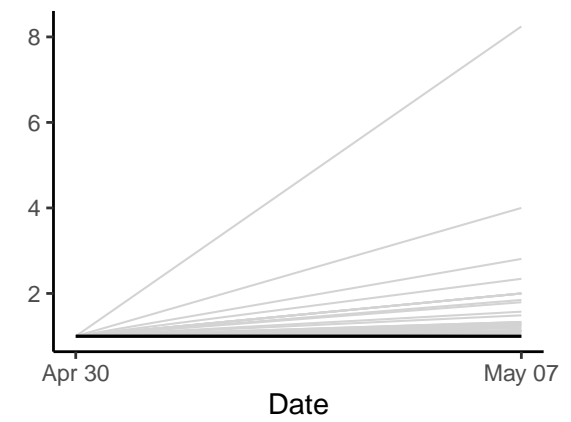
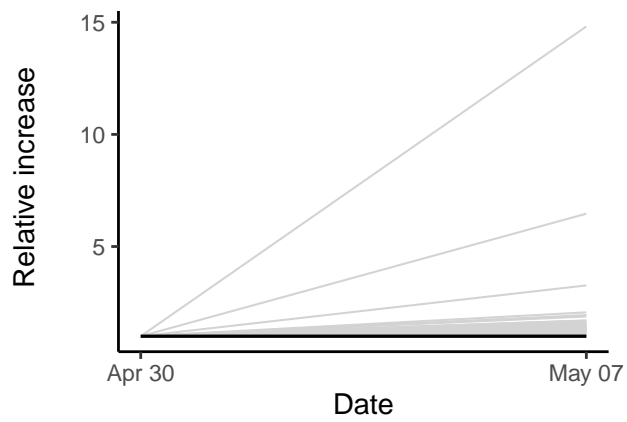
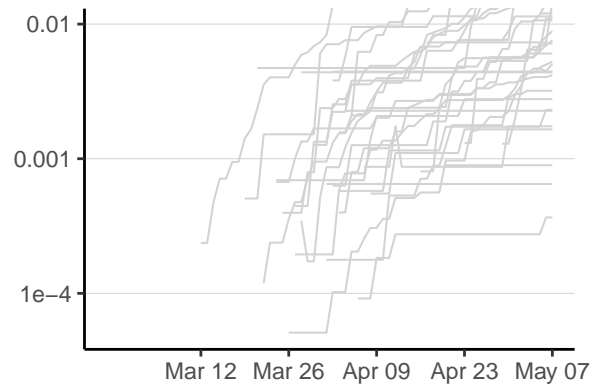
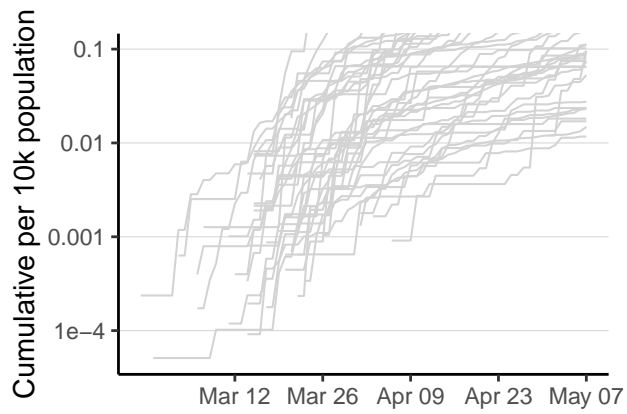
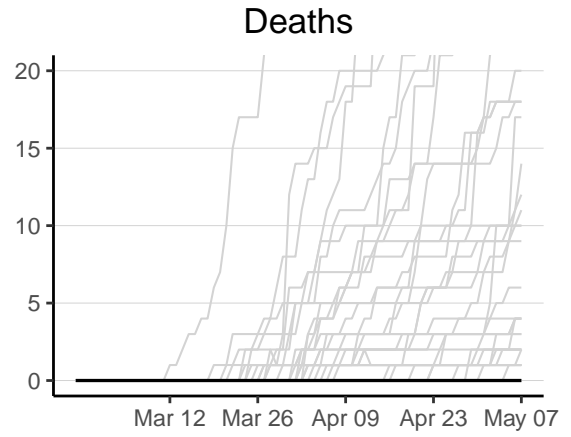
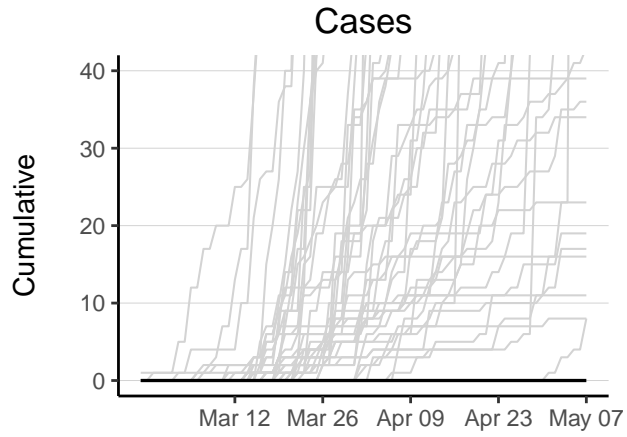


# Kenya

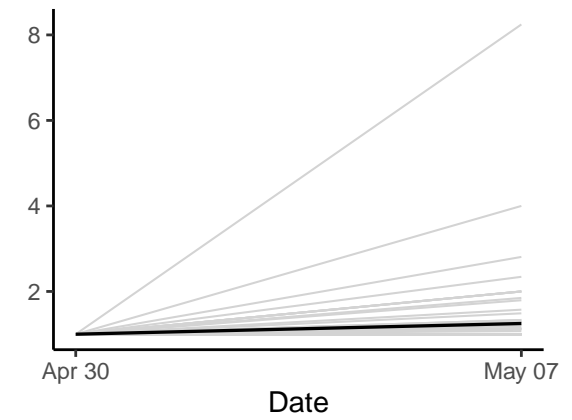
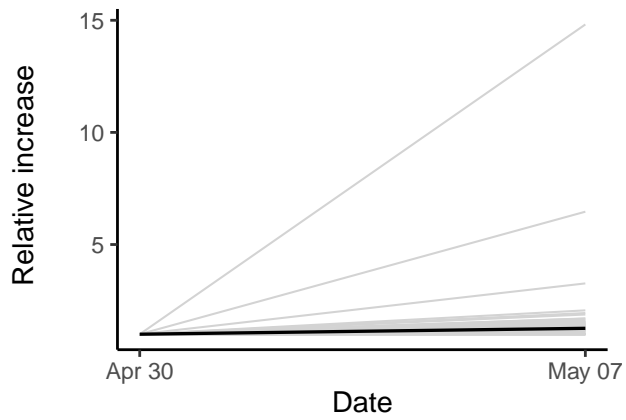
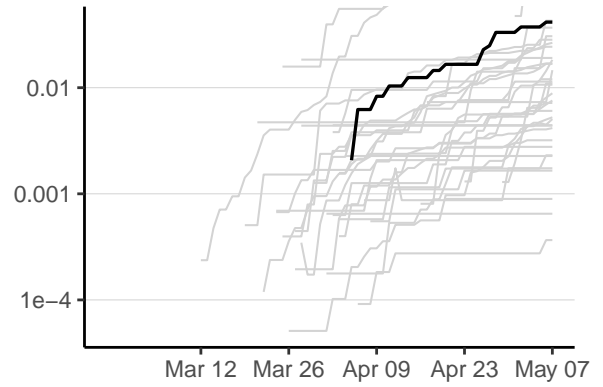
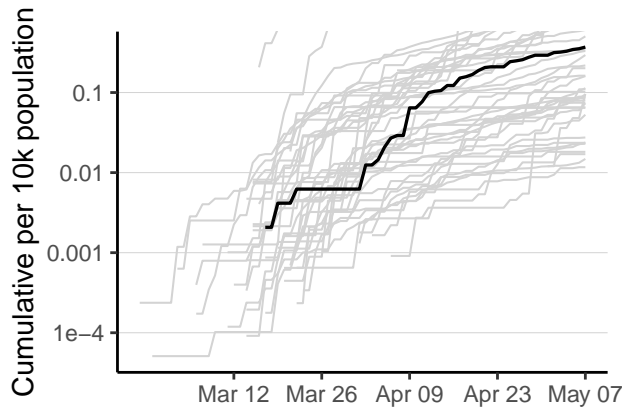
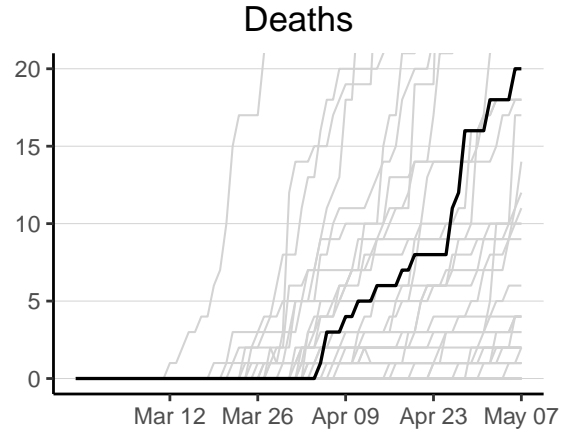
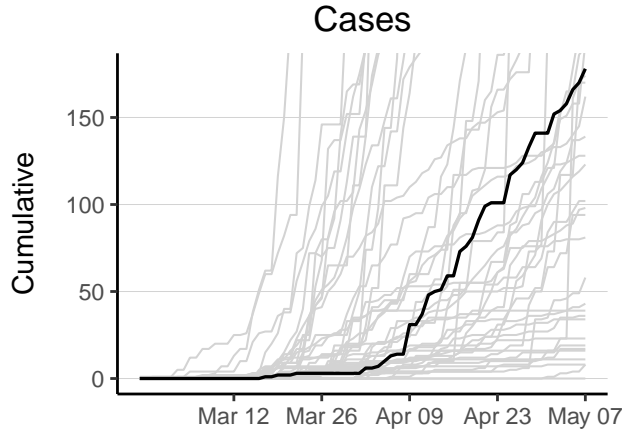




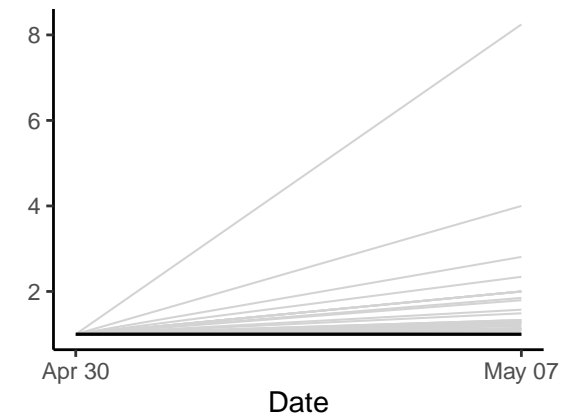
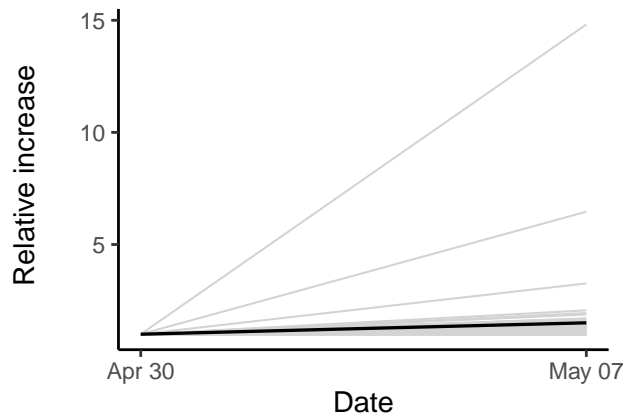
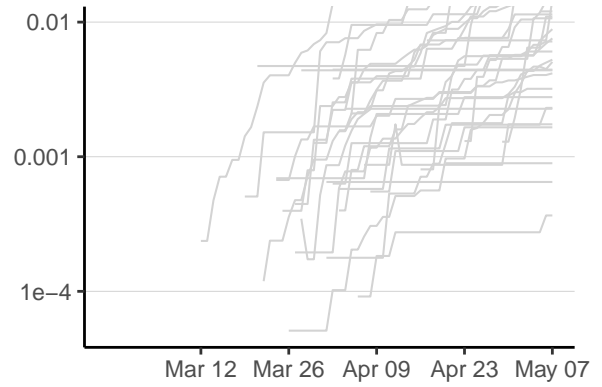
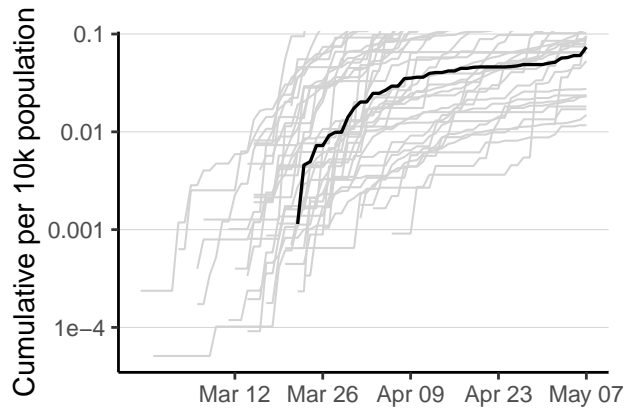
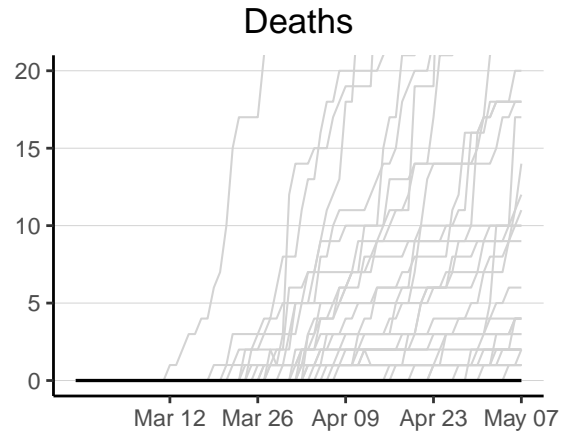
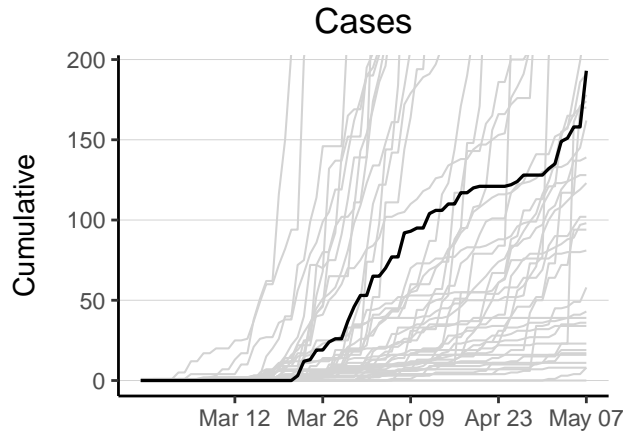
# Lesotho



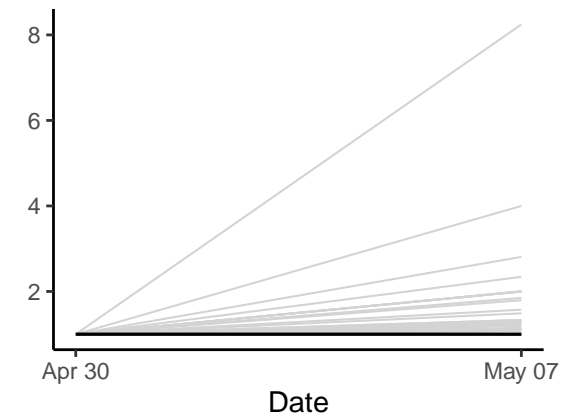
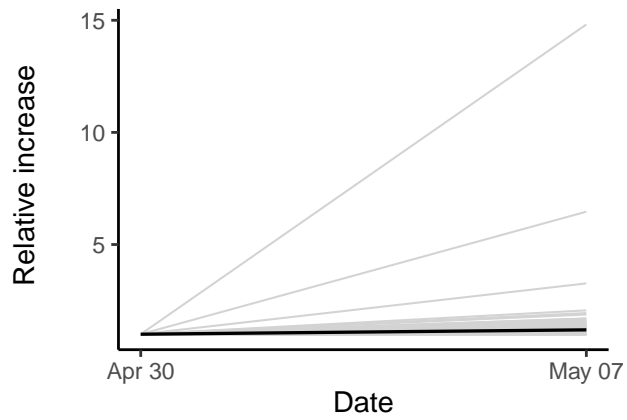
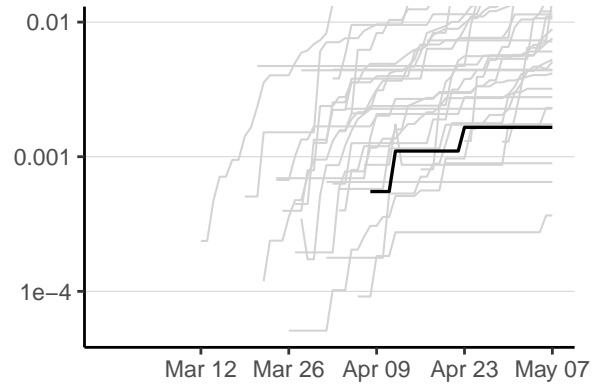
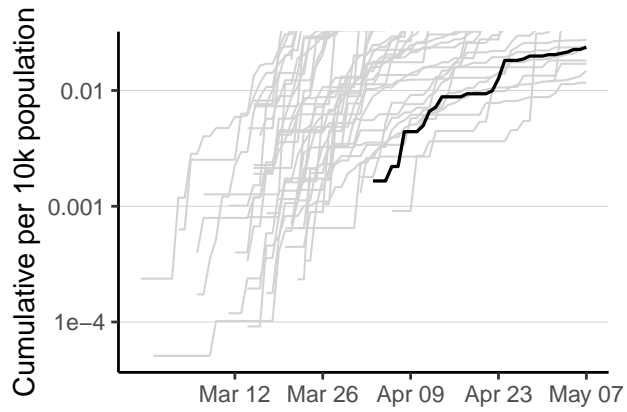
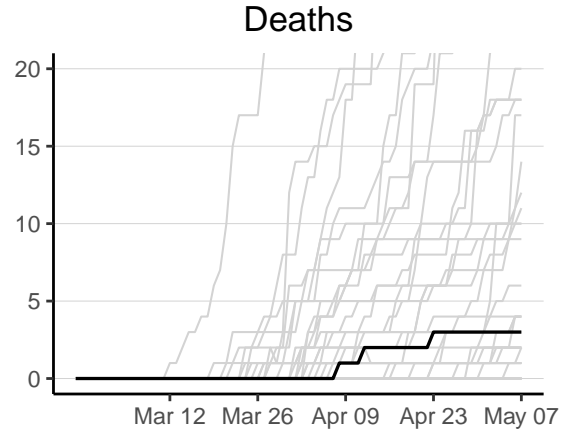
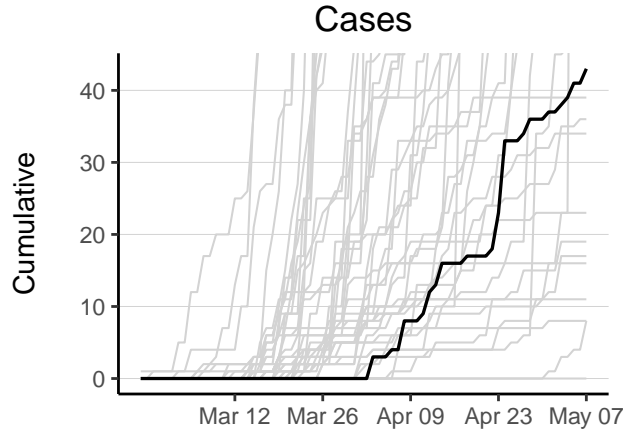
# Liberia



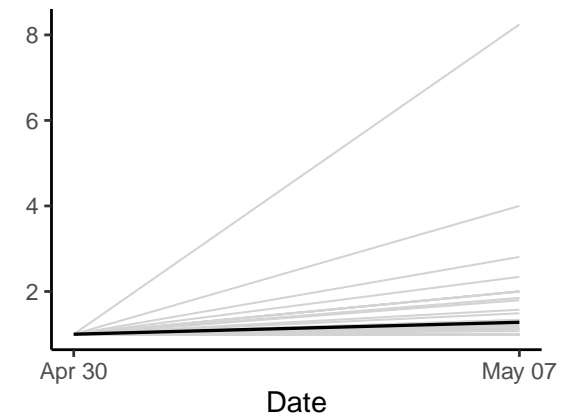
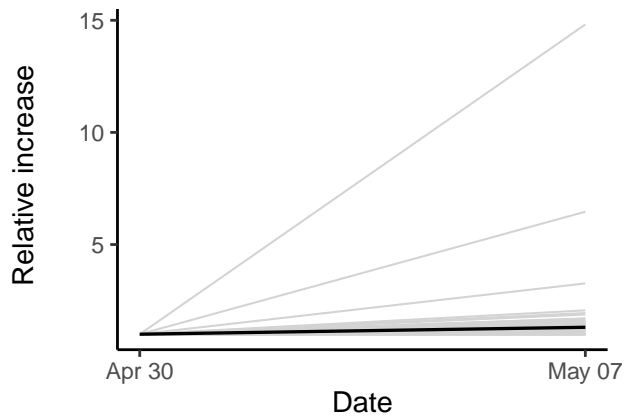
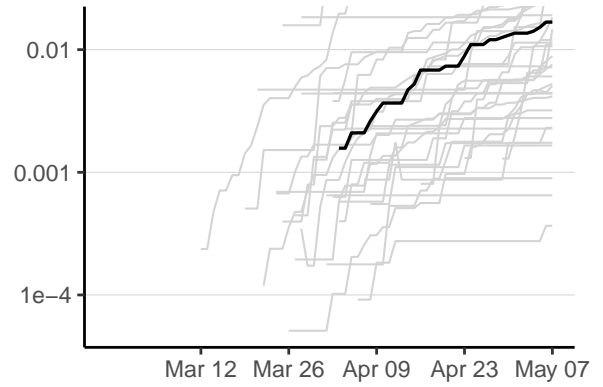
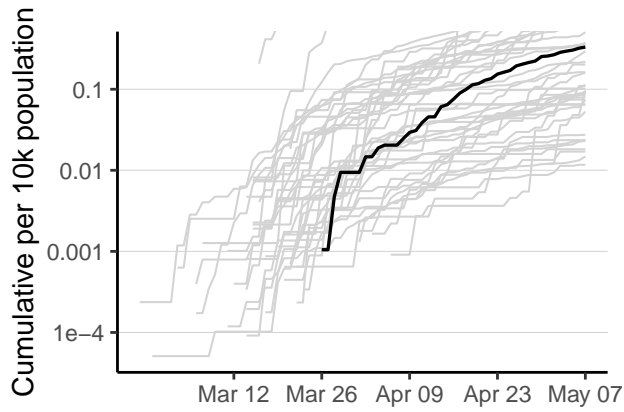
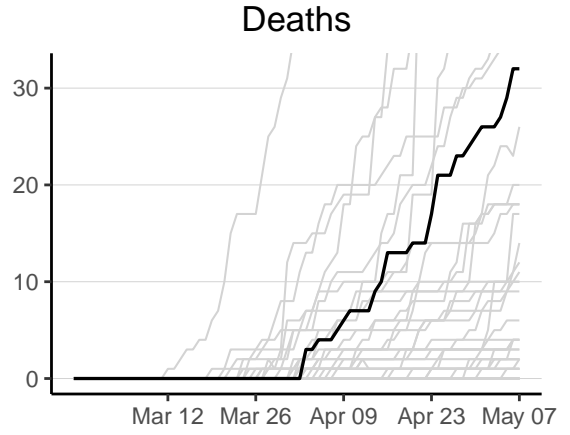
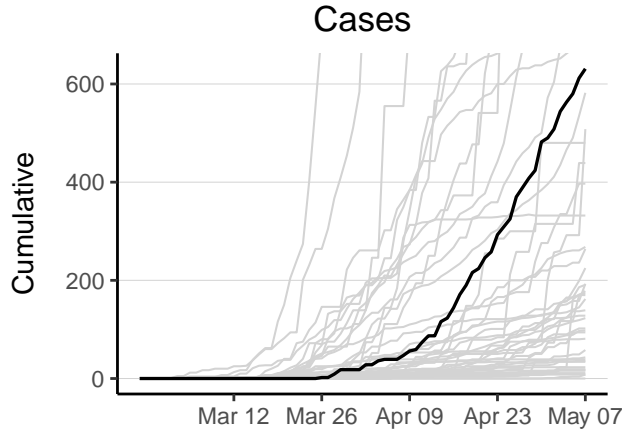
# Madagascar



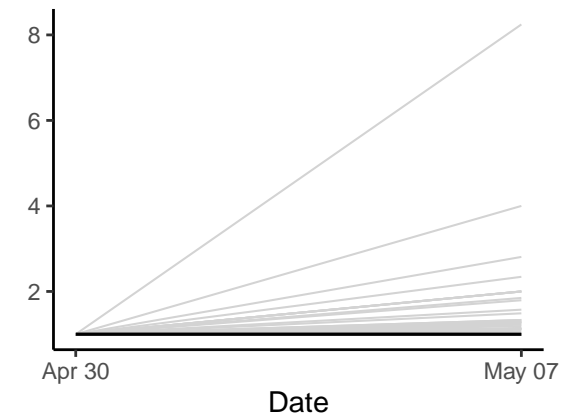
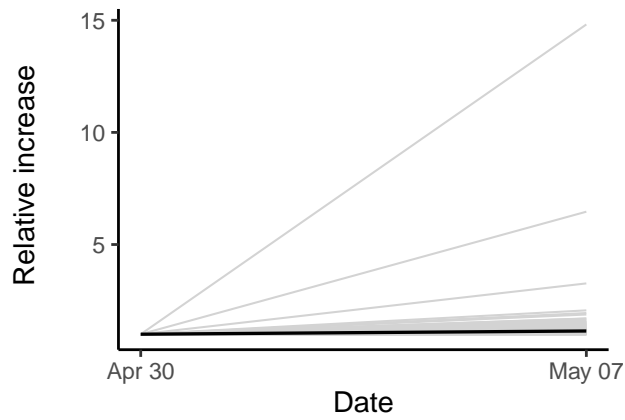
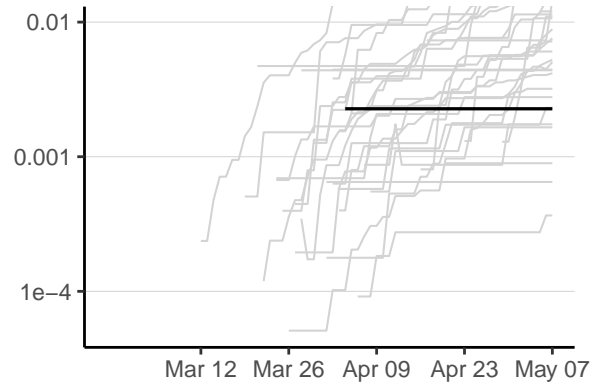
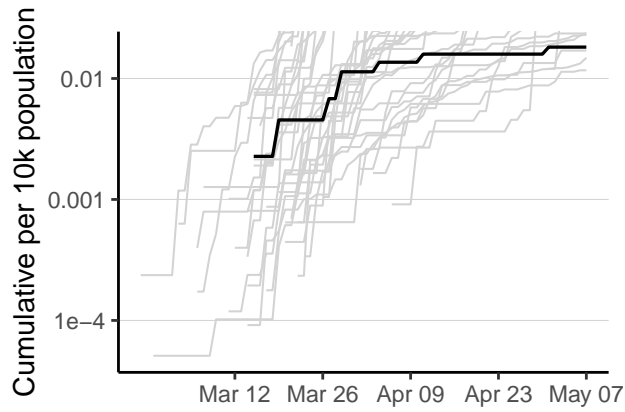
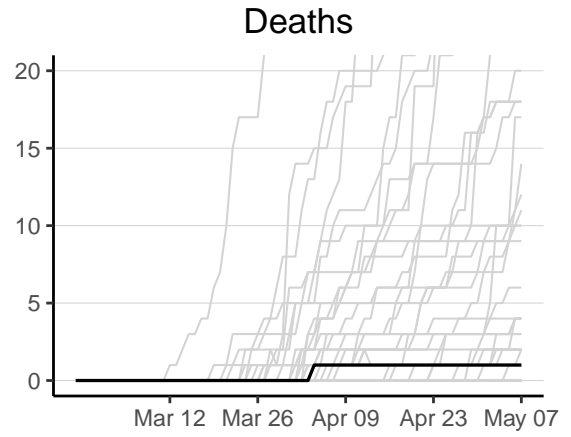
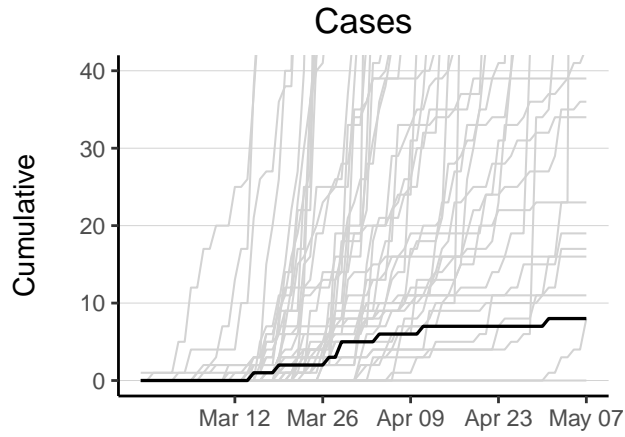
# Malawi



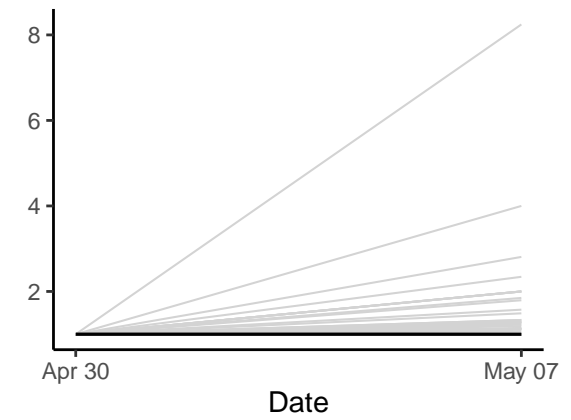
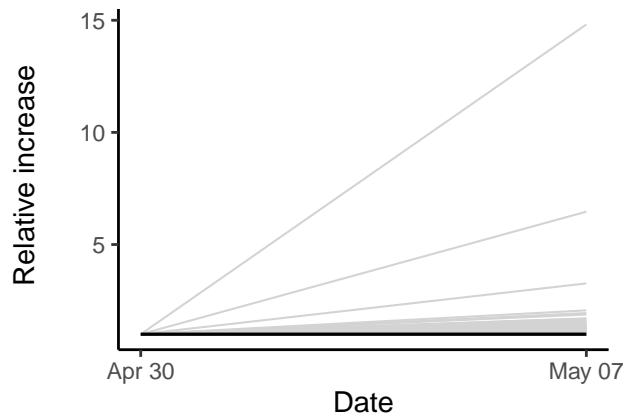
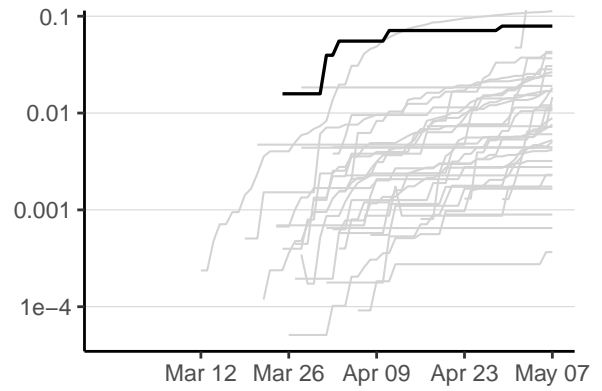
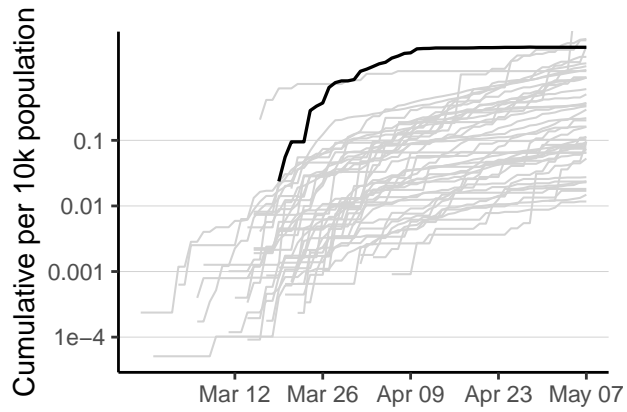
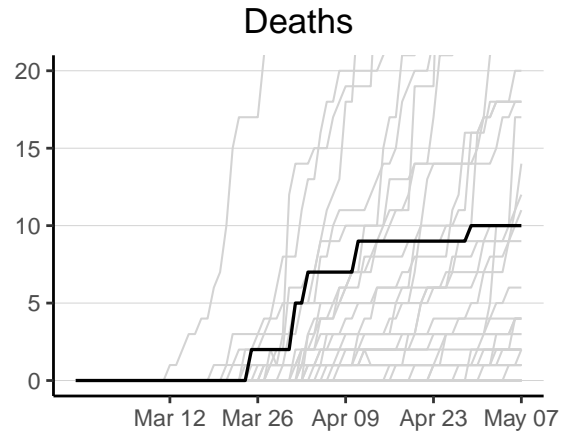
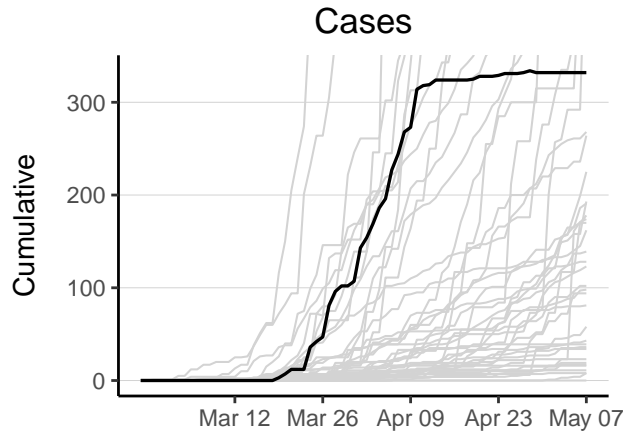
# Mali



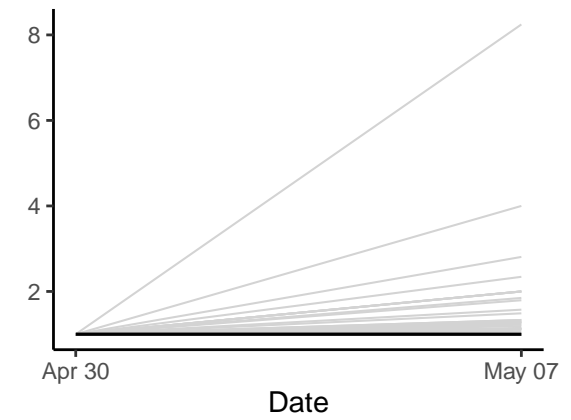
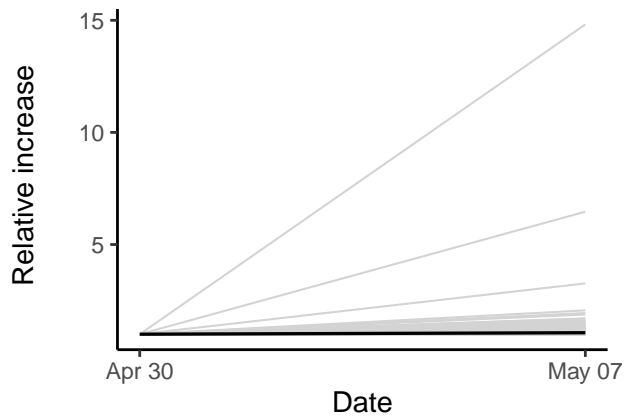
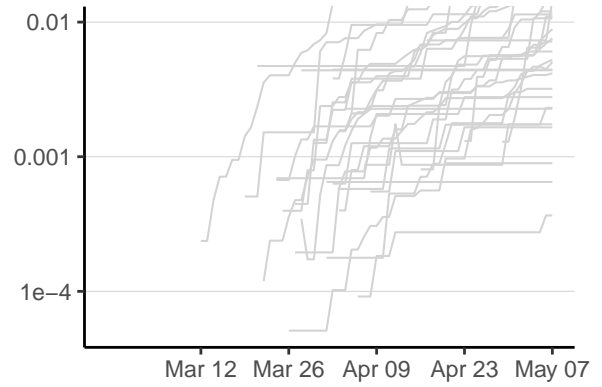
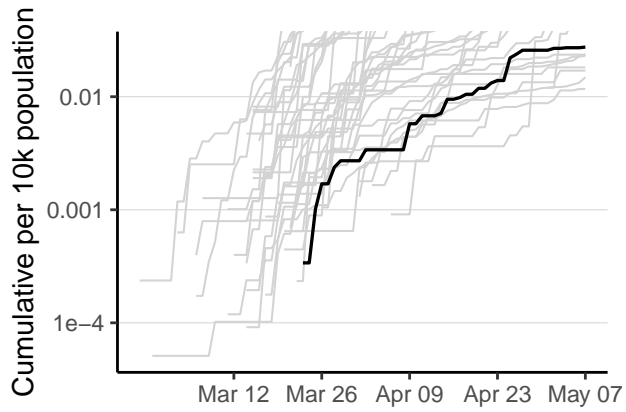
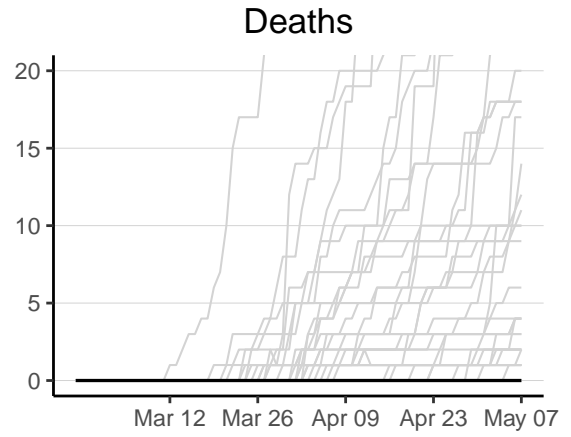
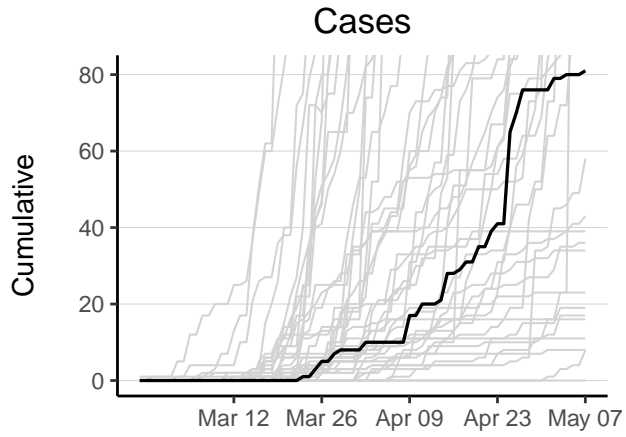
# Mauritania



# Mauritius

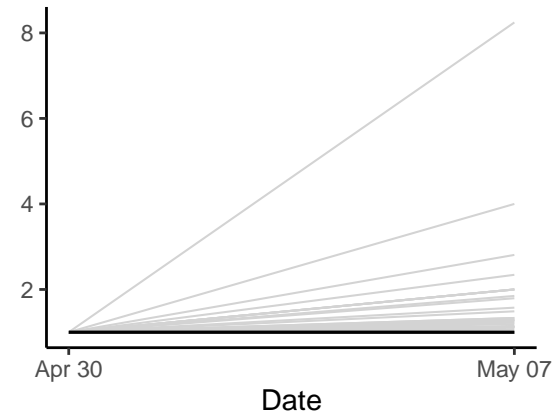
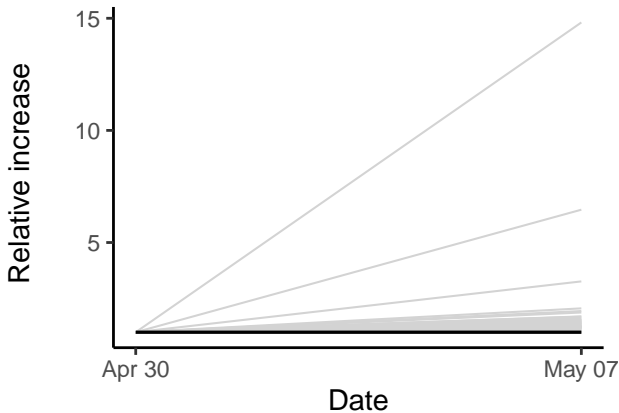
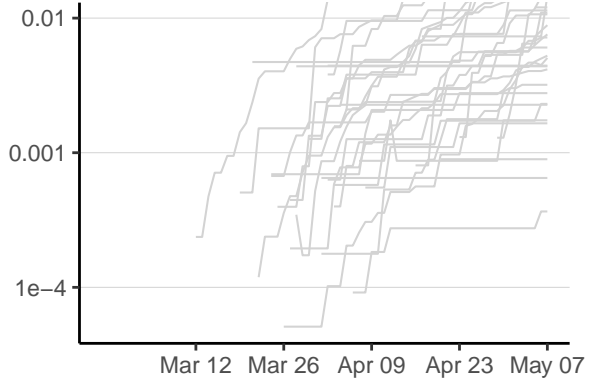
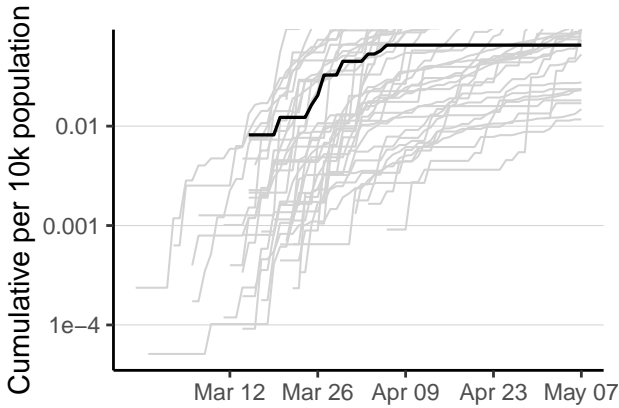
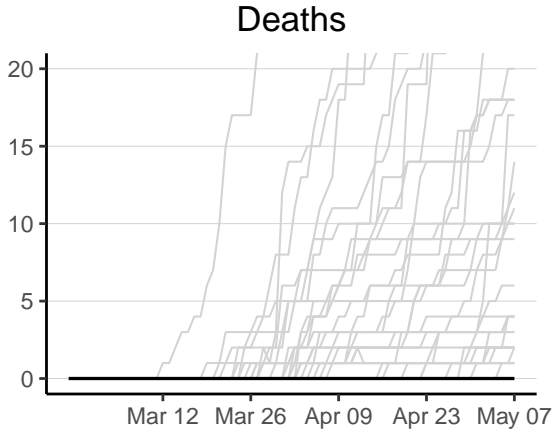
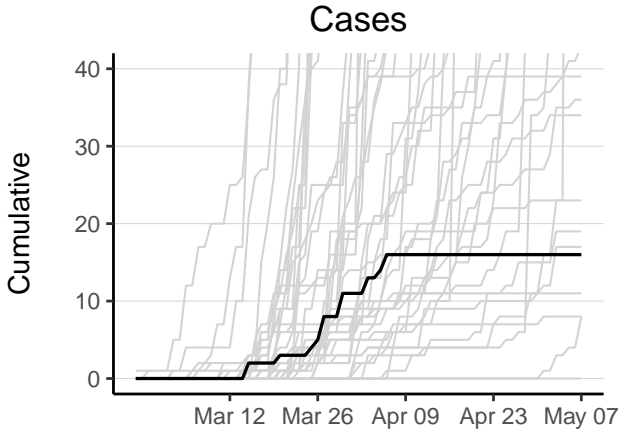


# Mozambique

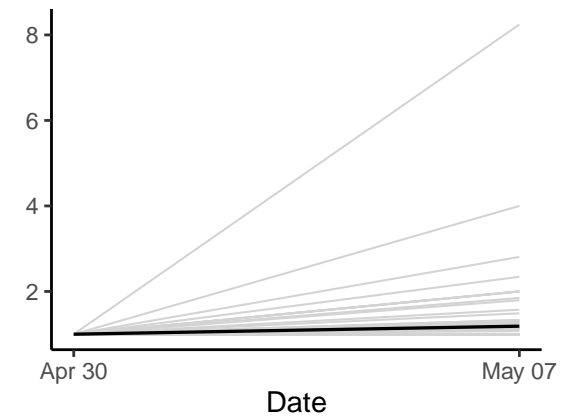
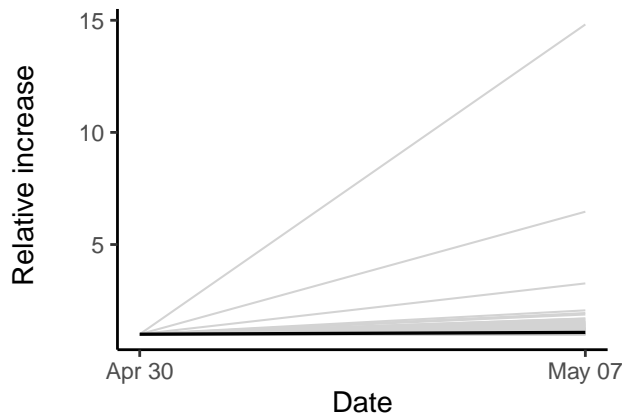
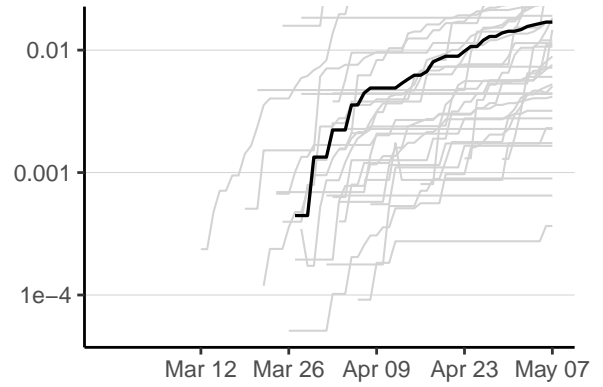
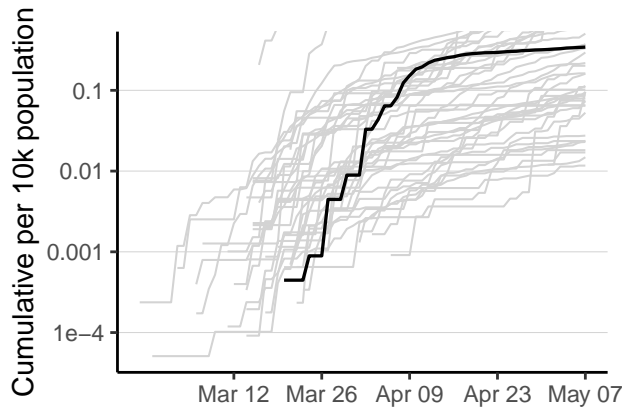
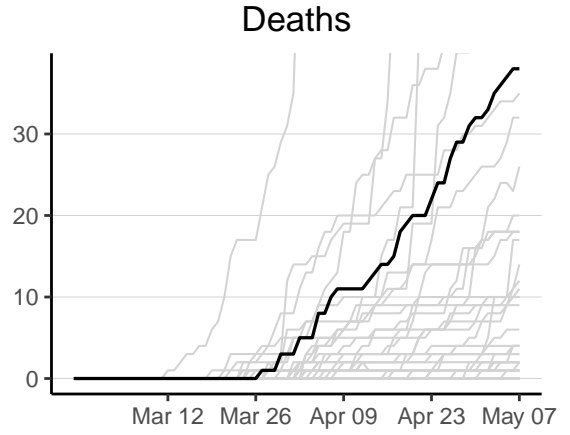
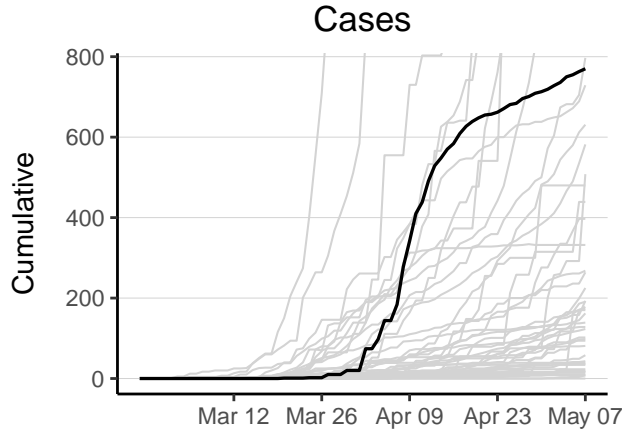




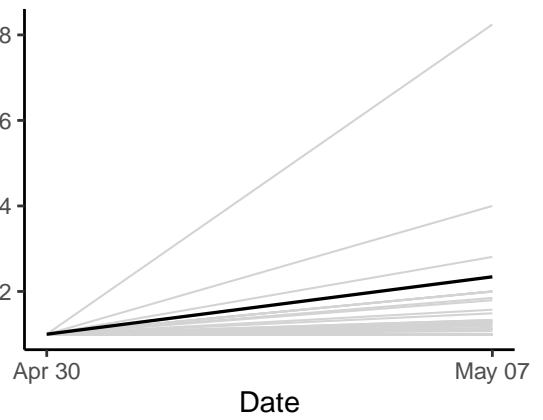
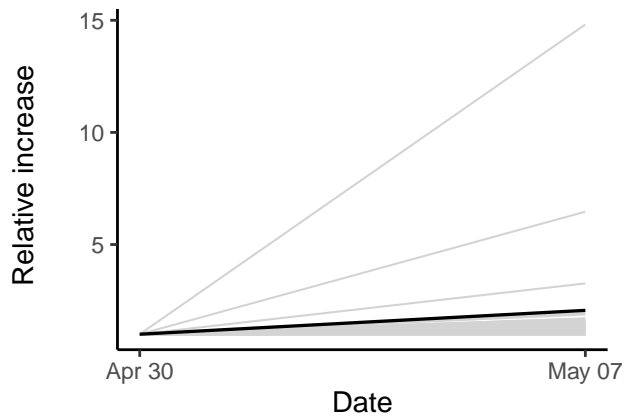
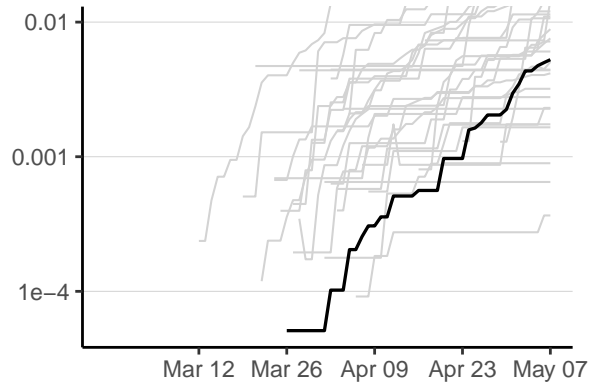
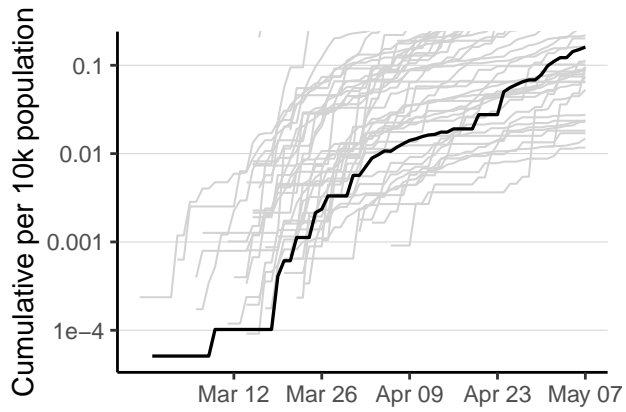
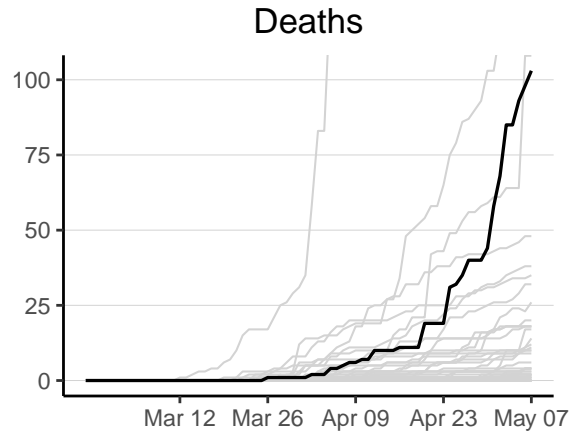
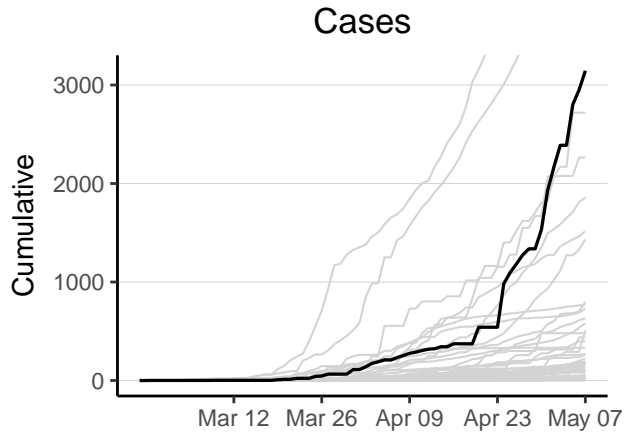
# Namibia



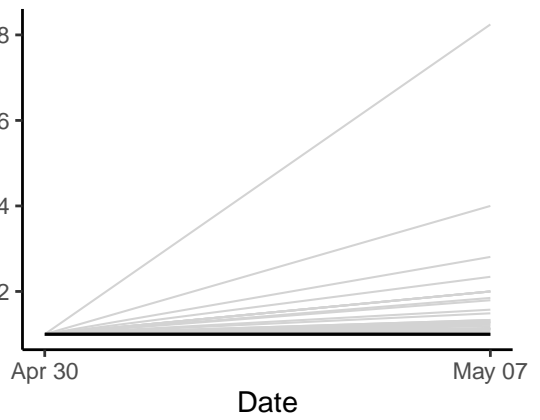
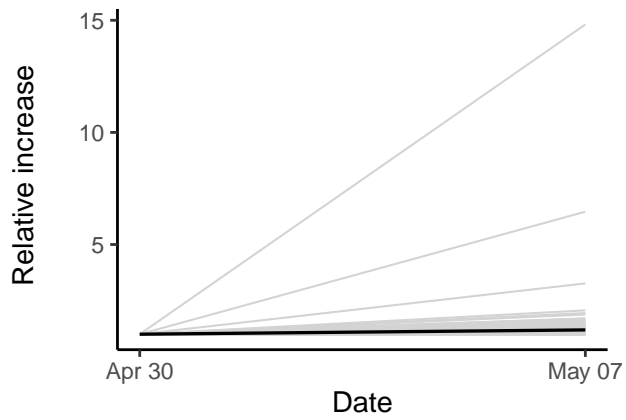
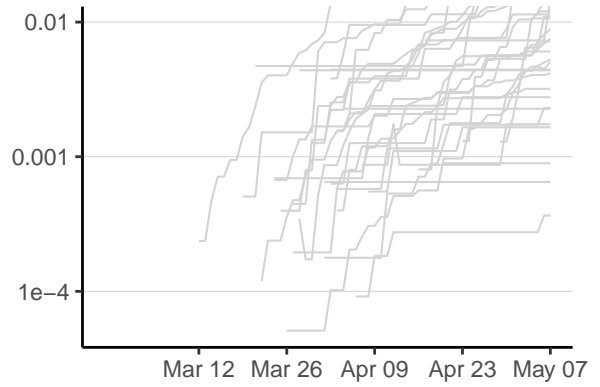
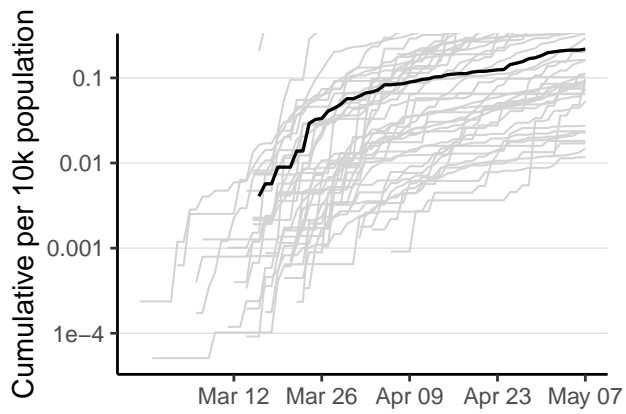
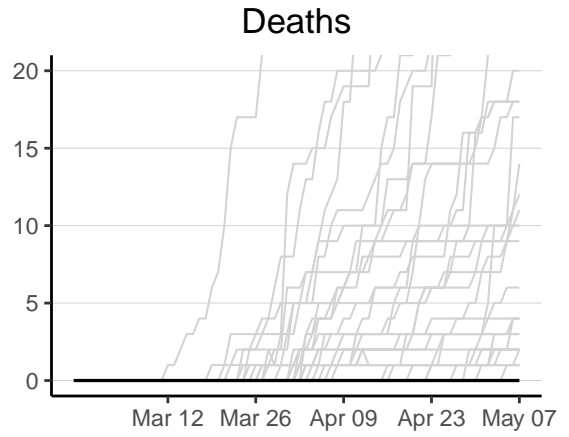
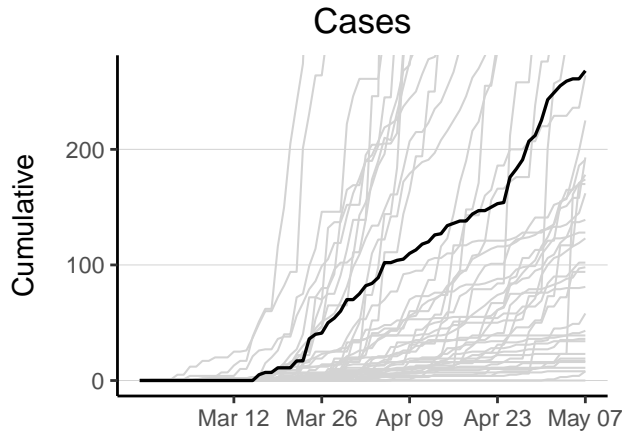
# Niger



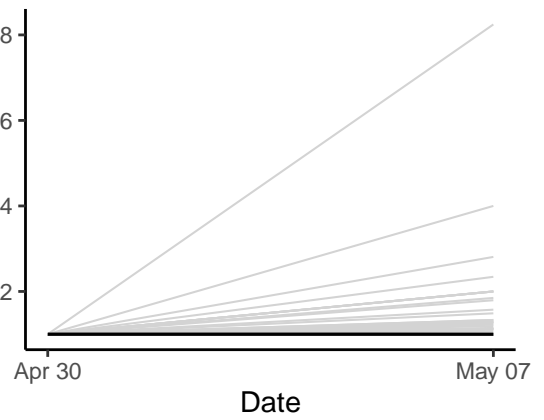
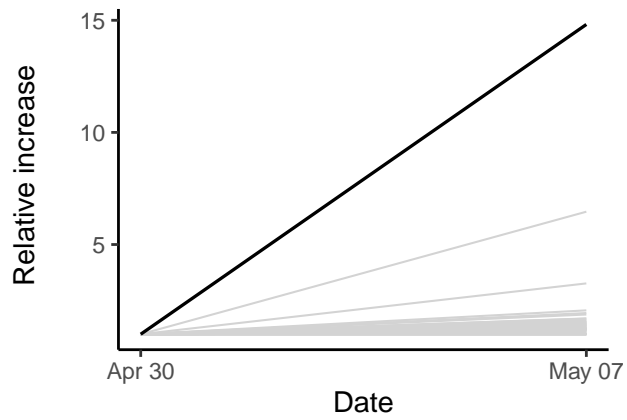
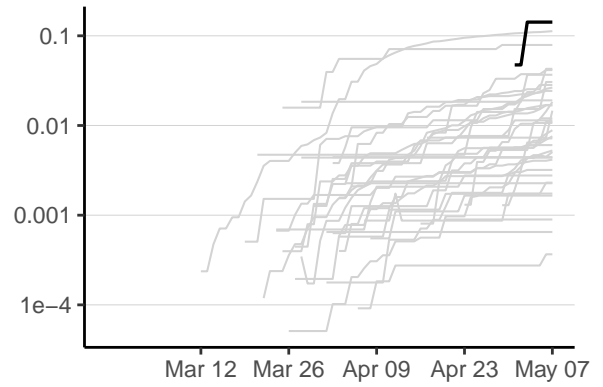
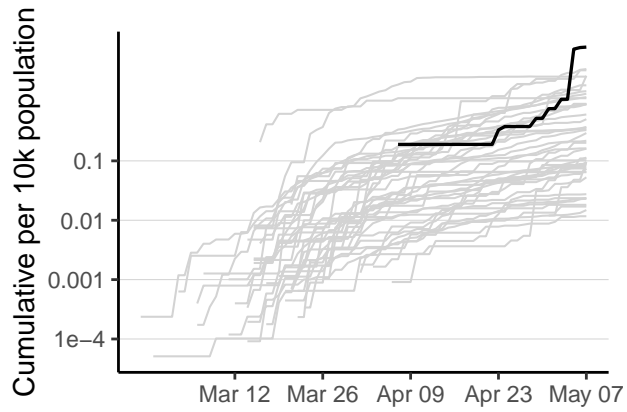
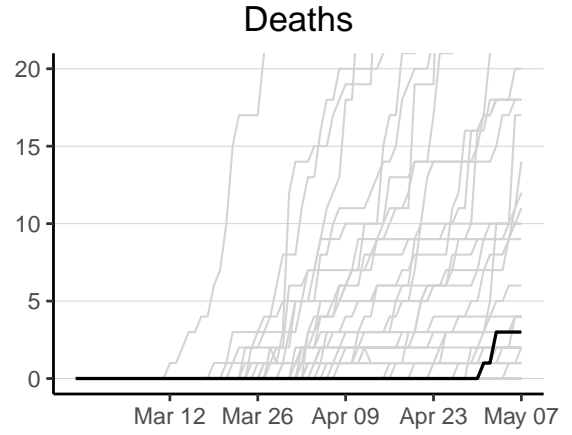
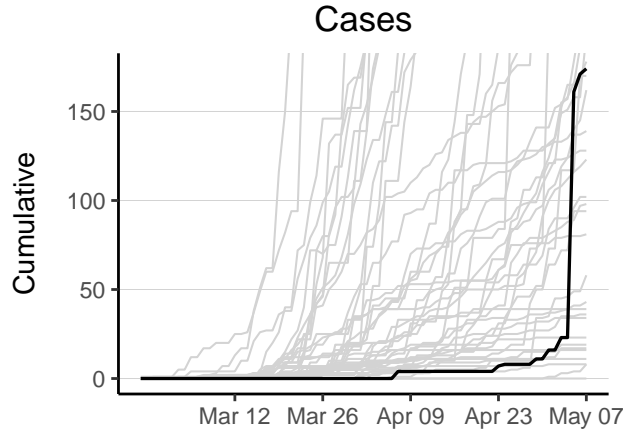
# Nigeria



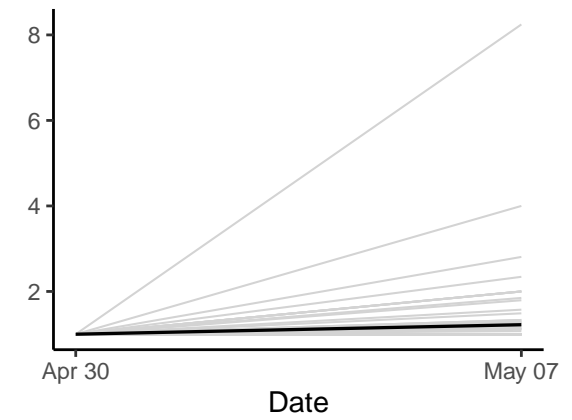
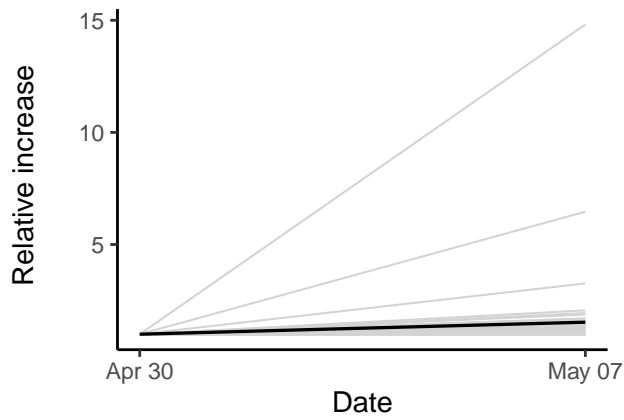
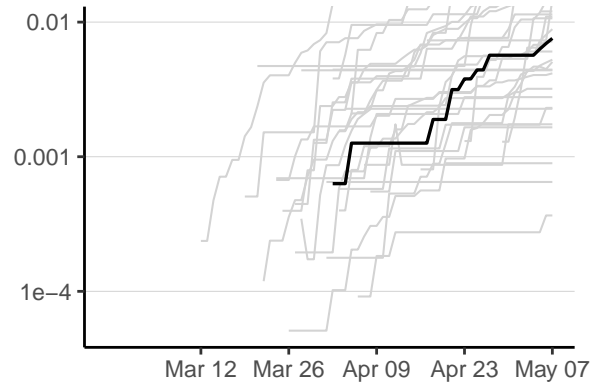
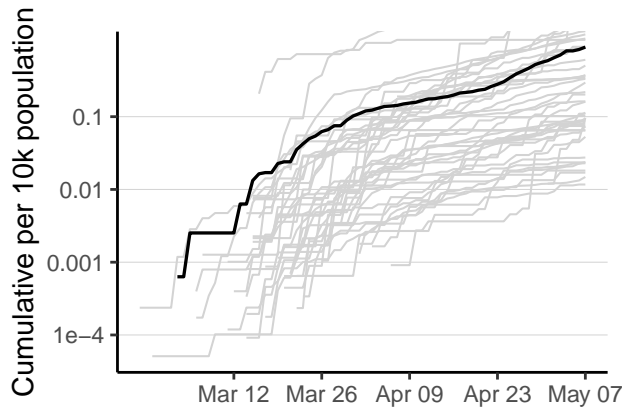
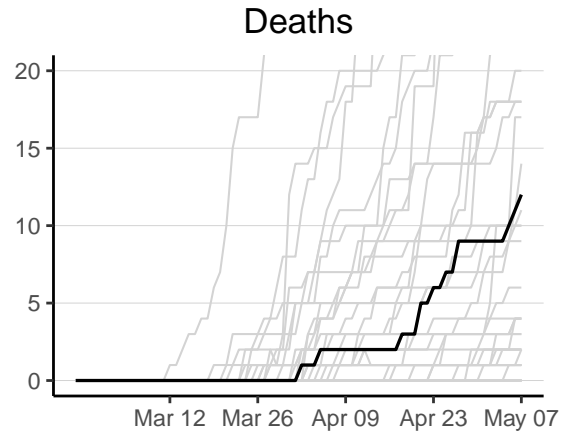
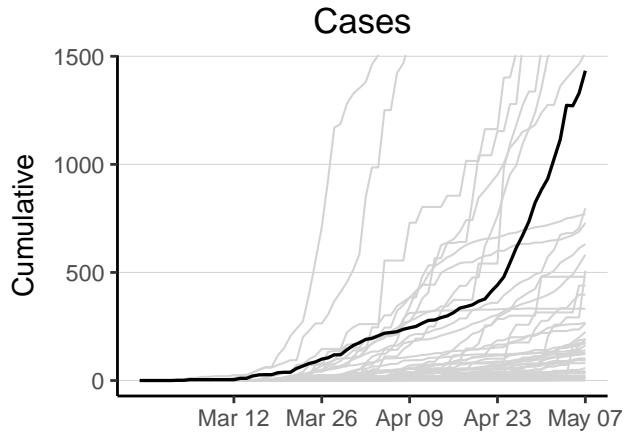
# Rwanda



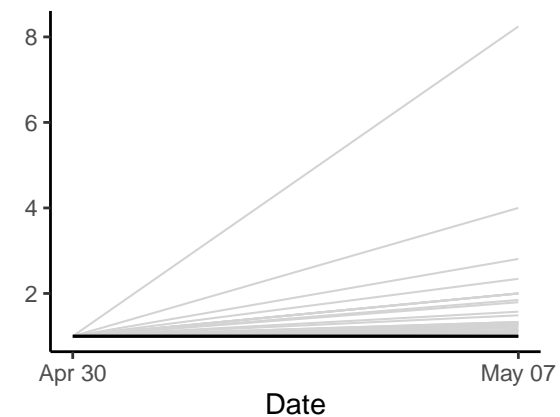
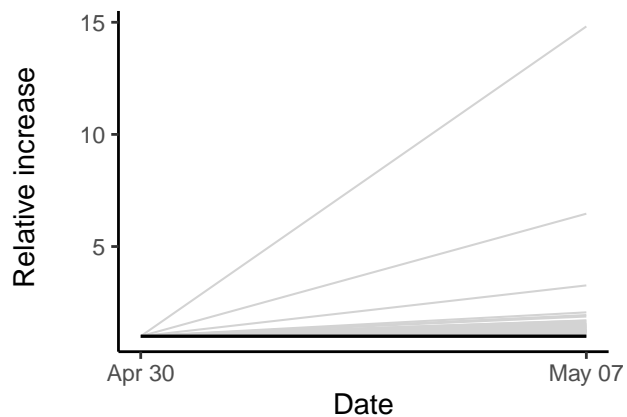
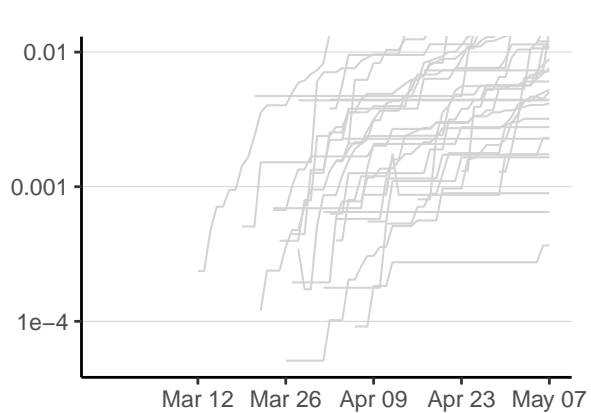
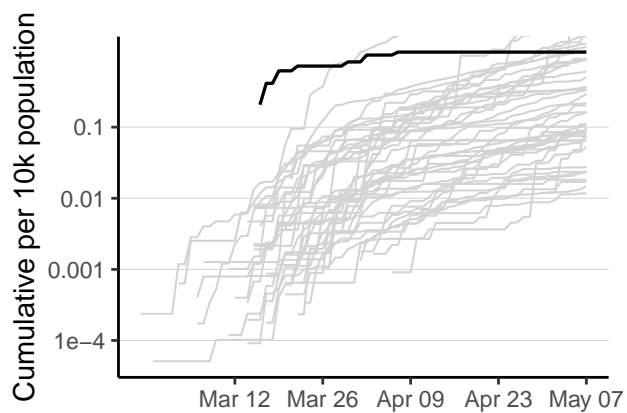
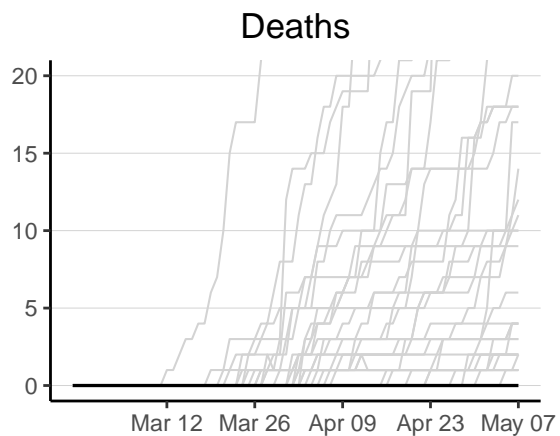
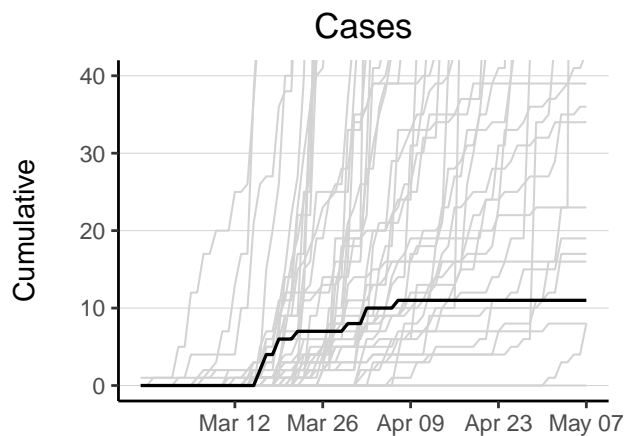
# Sao Tome and Principe



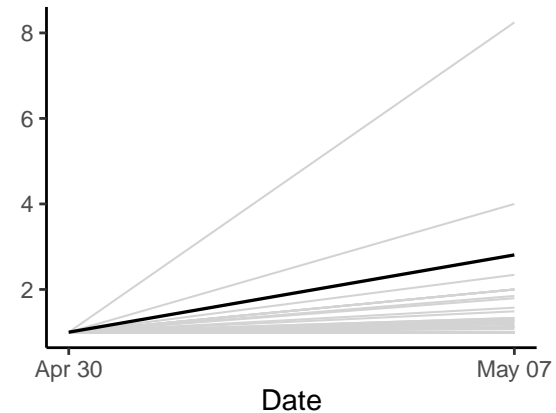
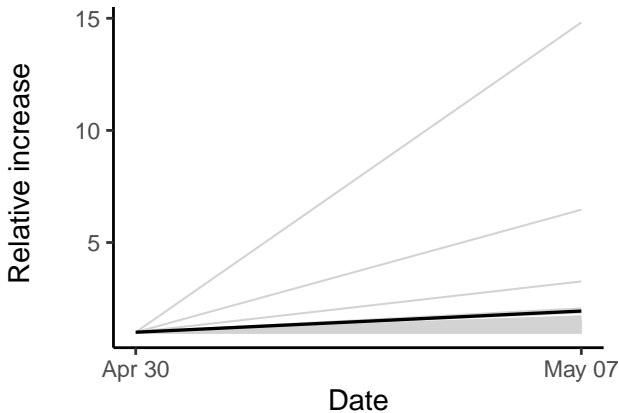
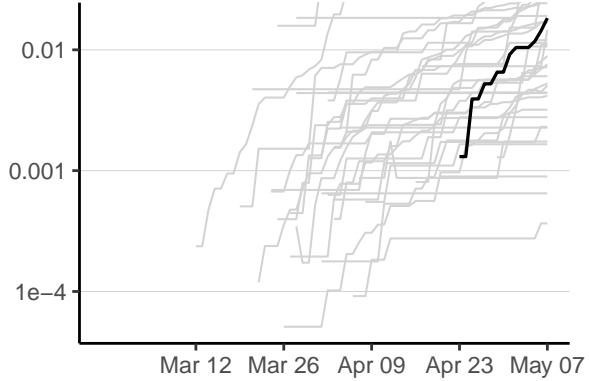
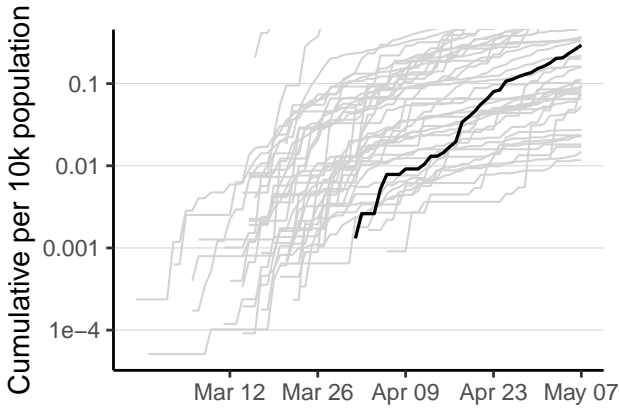
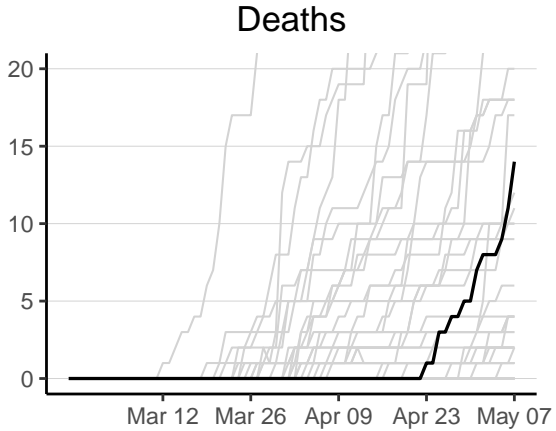
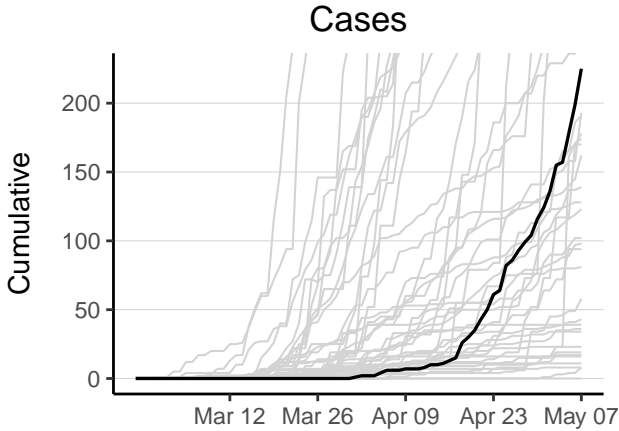
# Senegal



# Seychelles

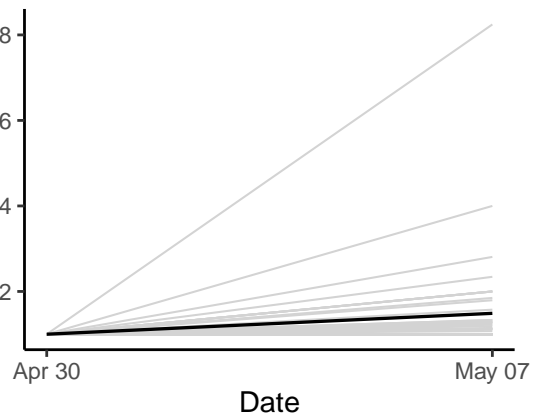
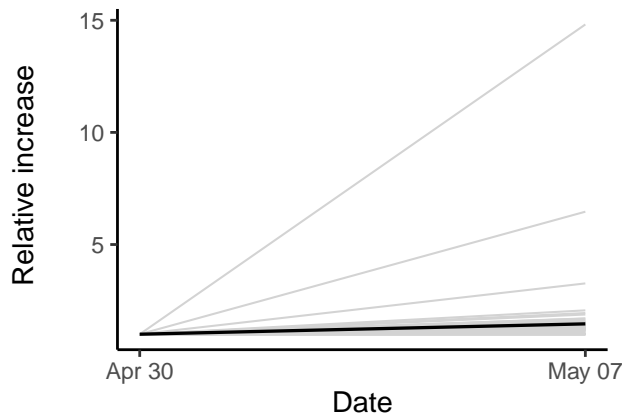
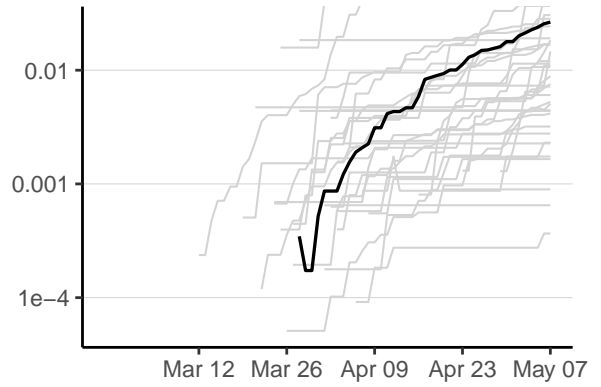
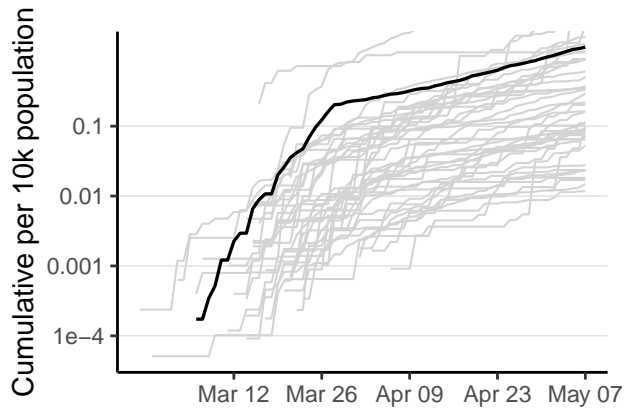
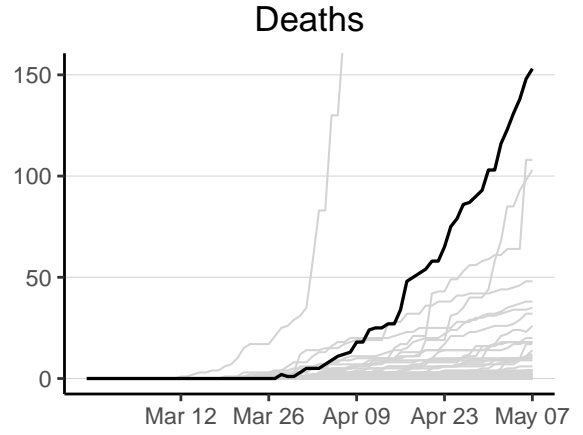
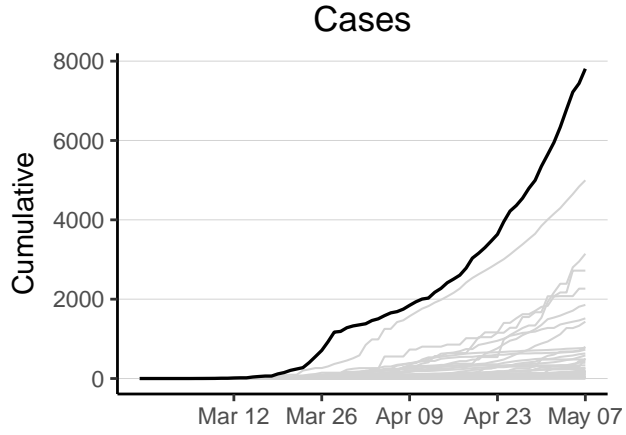


# Sierra Leone

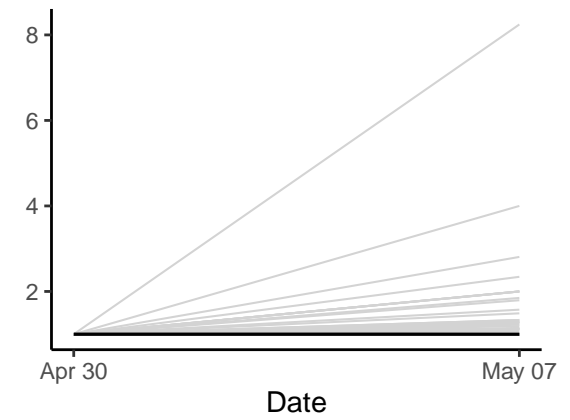
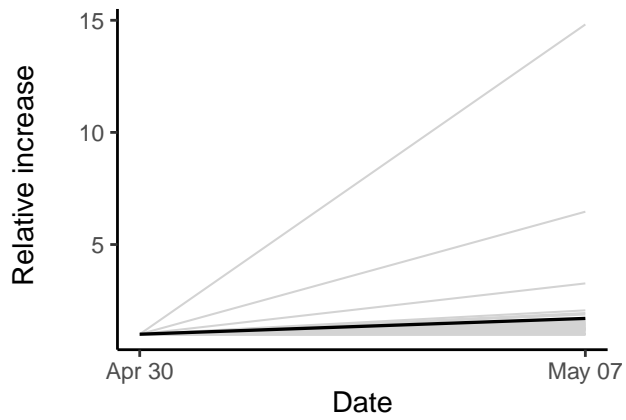
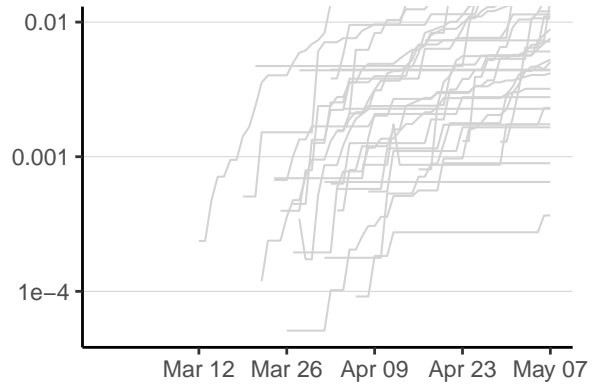
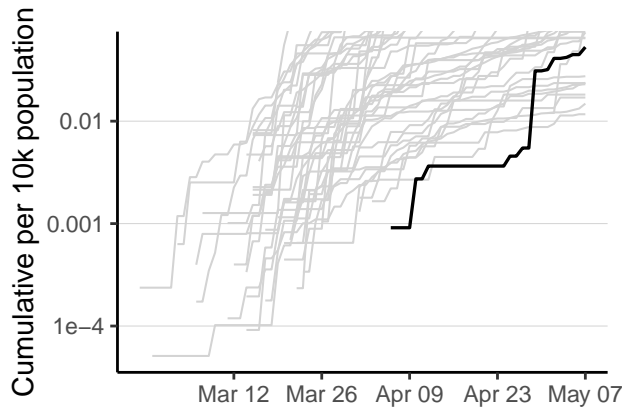
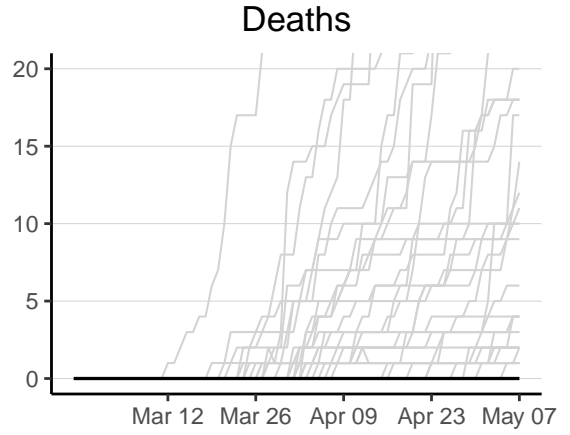
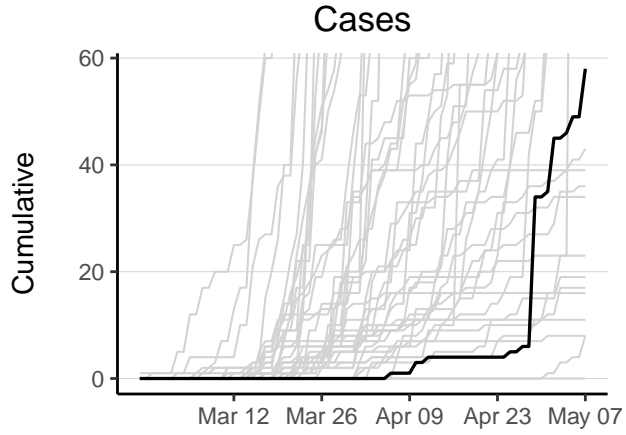




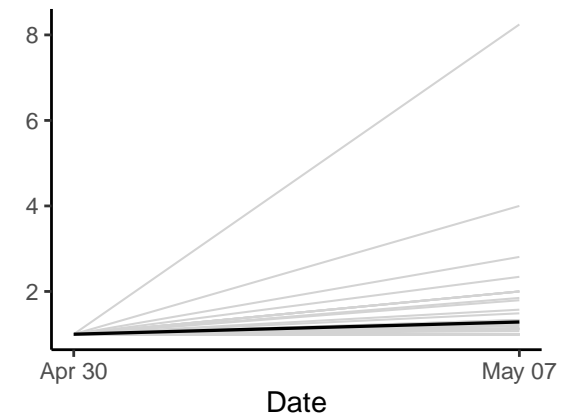
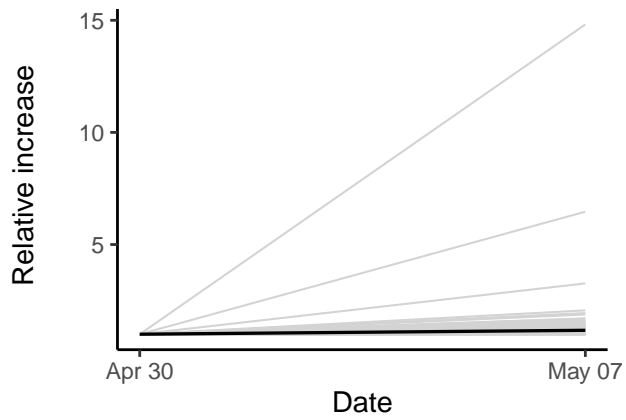
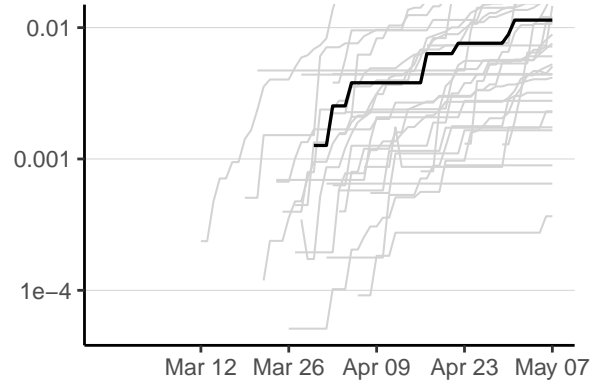
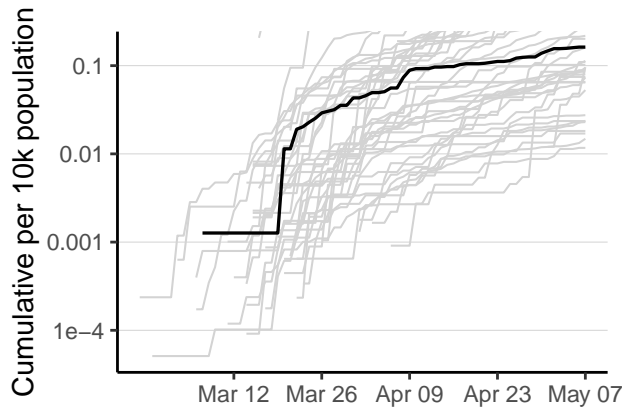
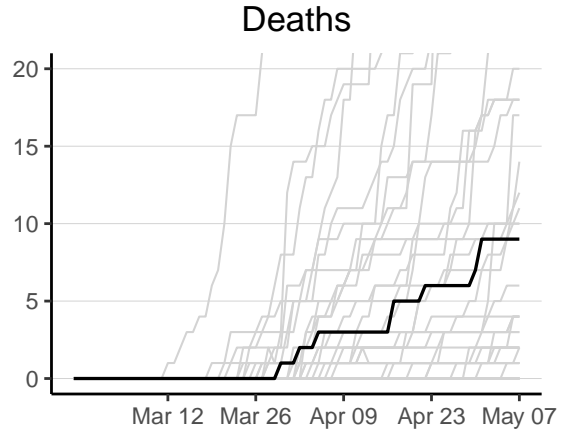
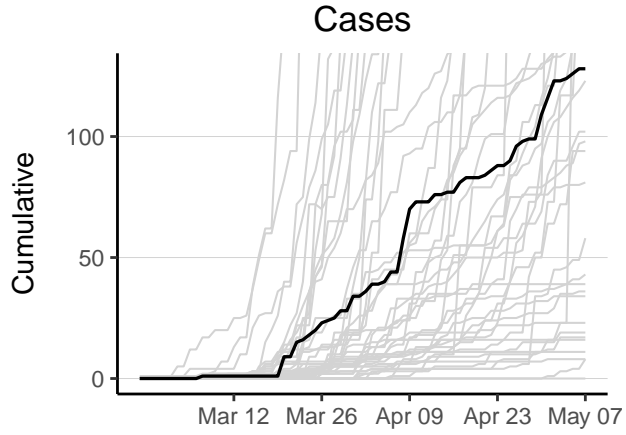
# South Africa



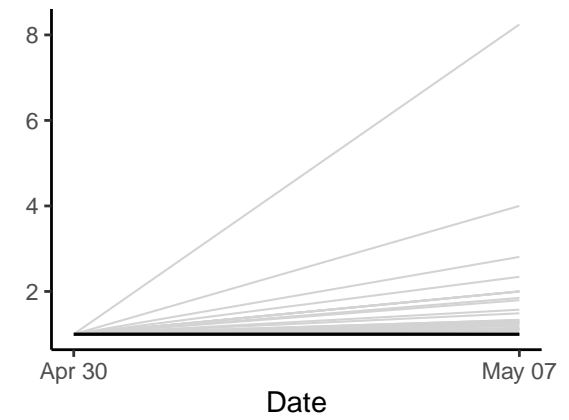
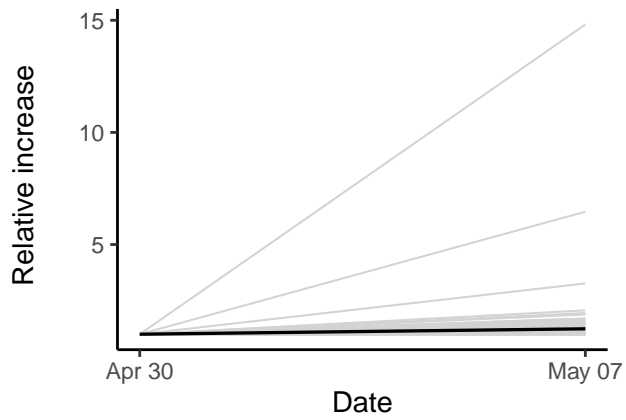
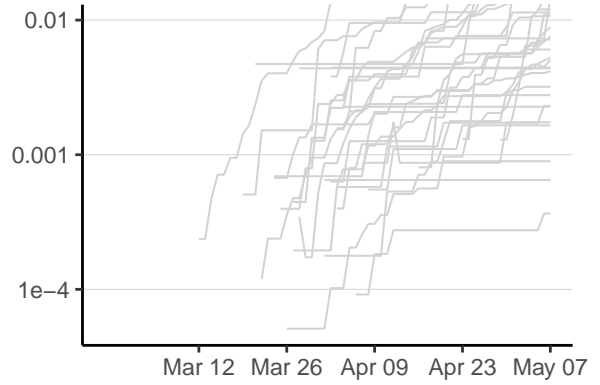
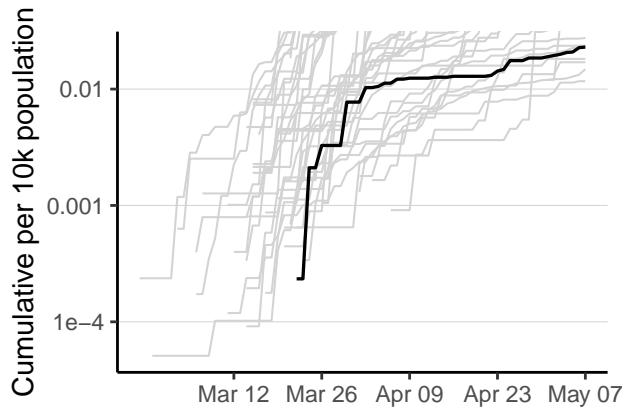
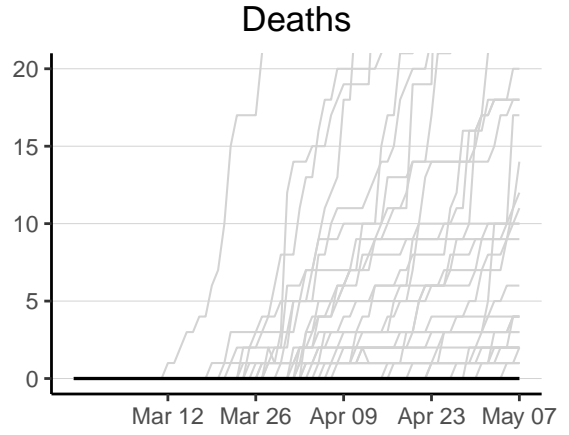
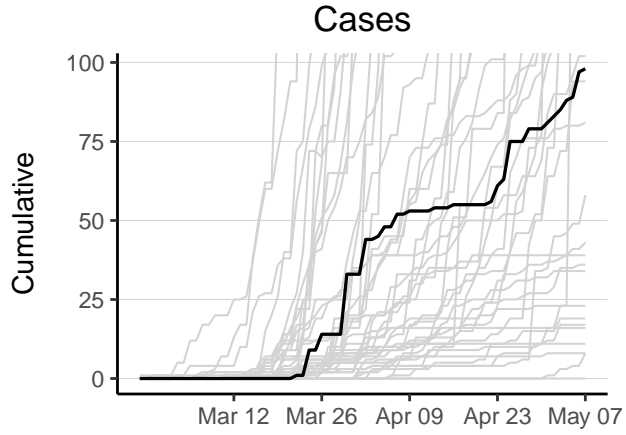
# South Sudan



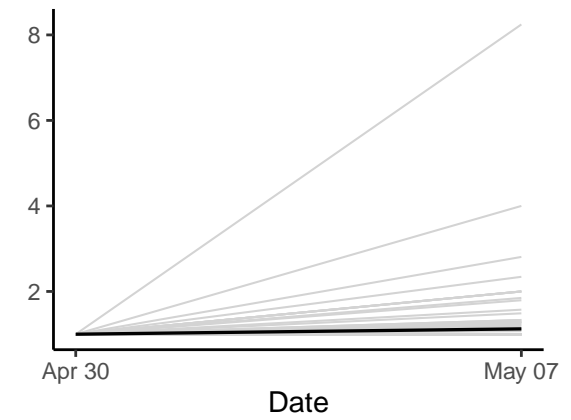
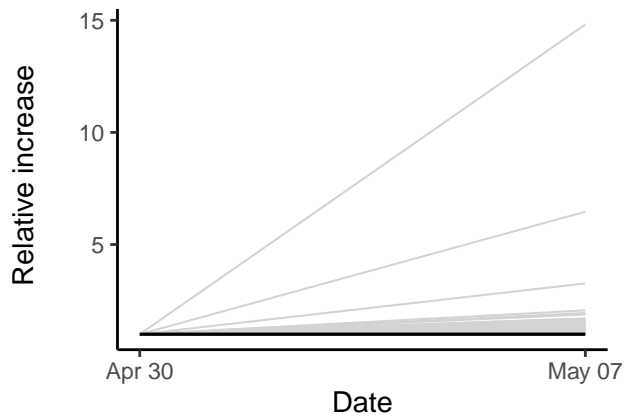
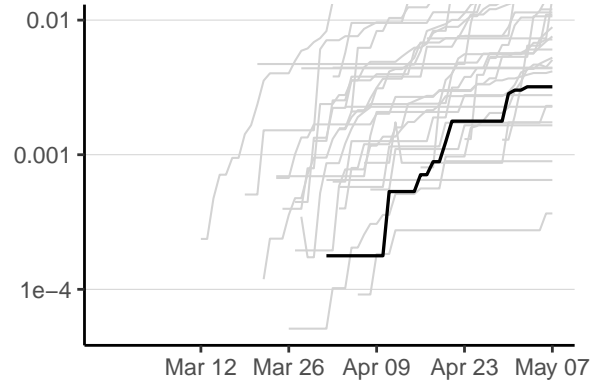
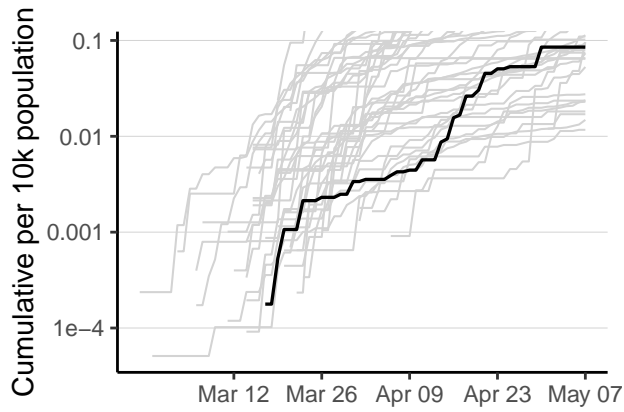
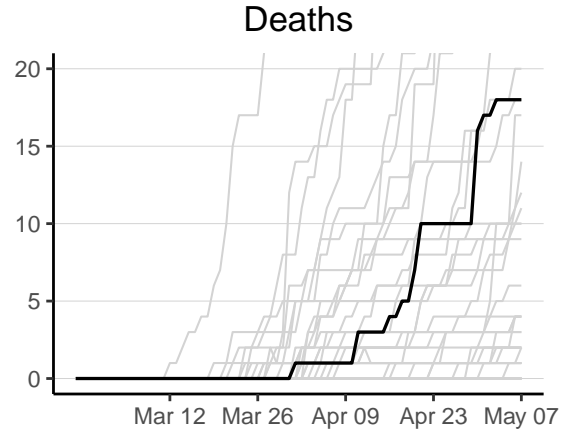
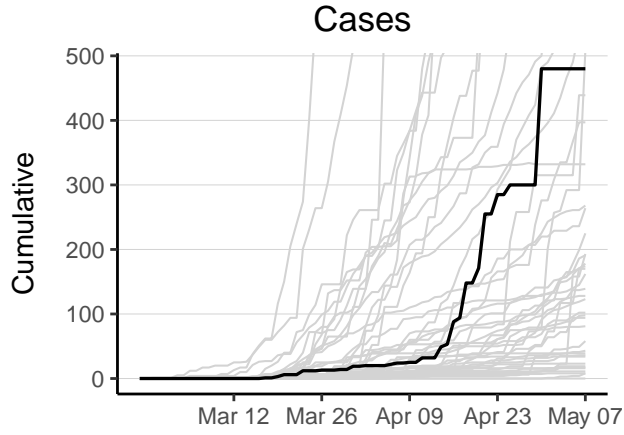
# Togo



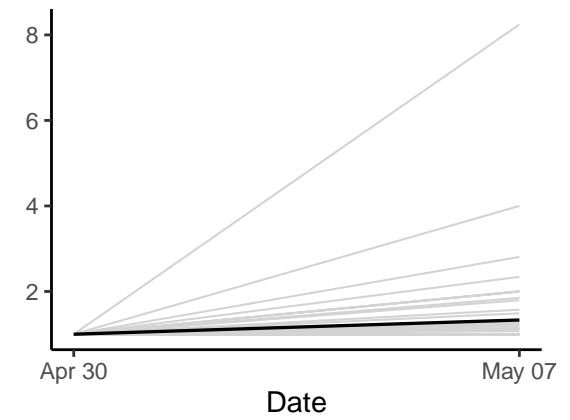
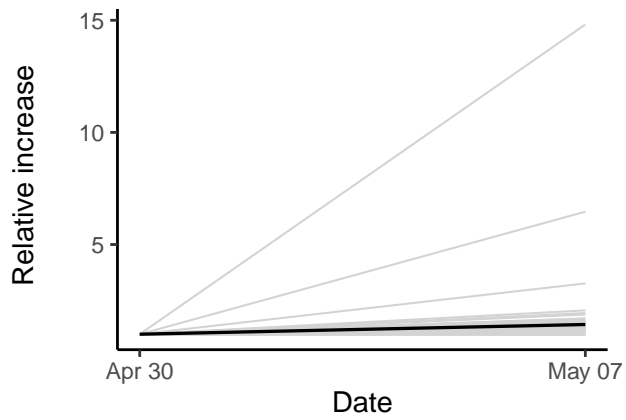
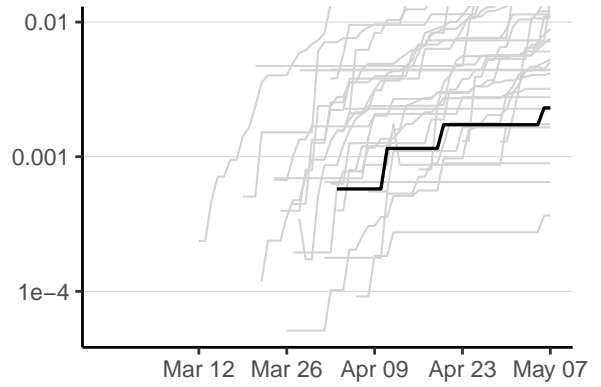
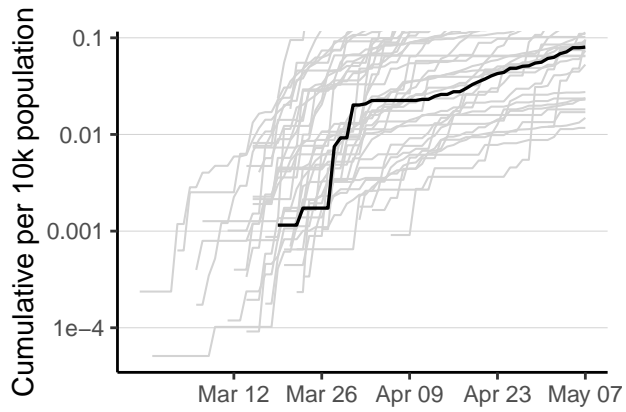
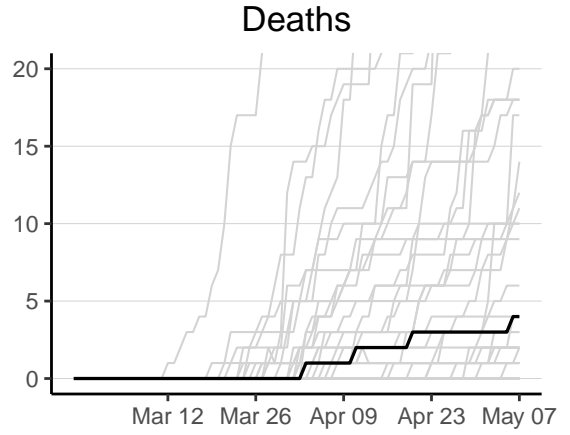
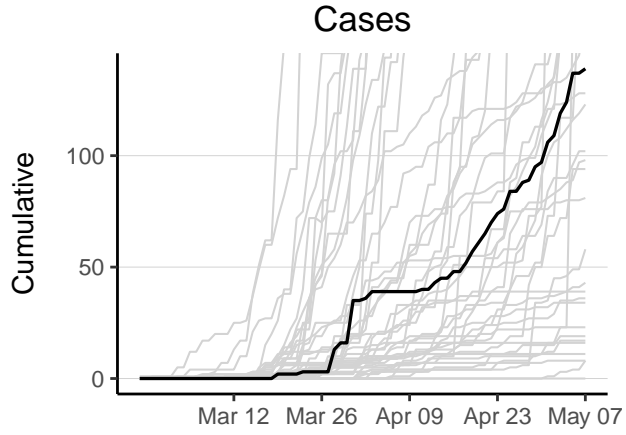
# Uganda



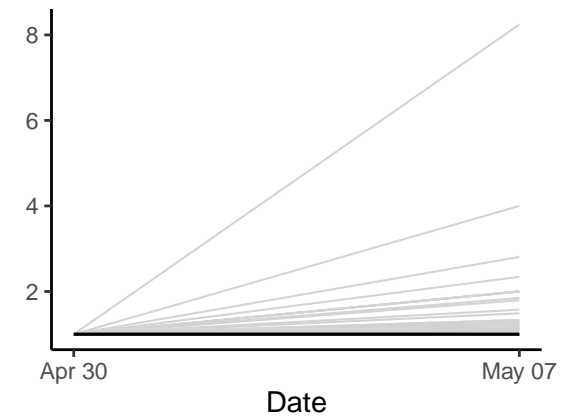
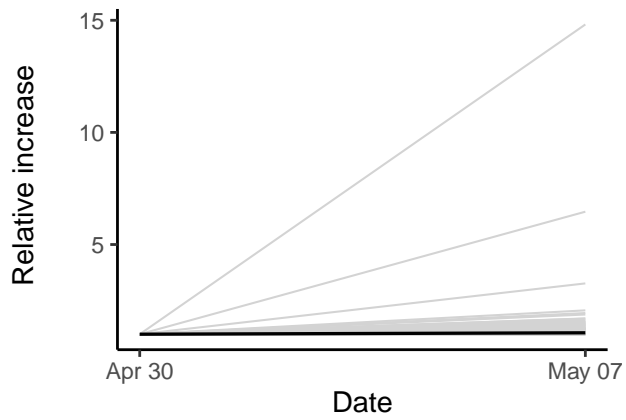
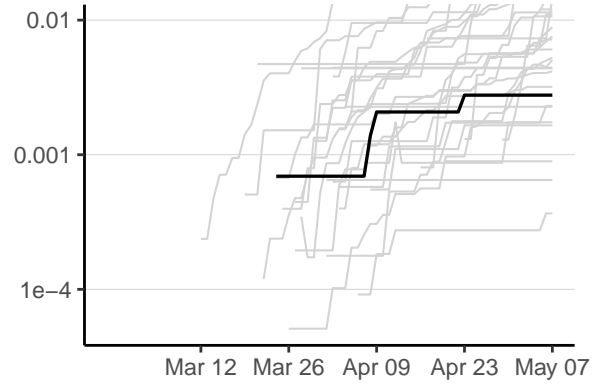
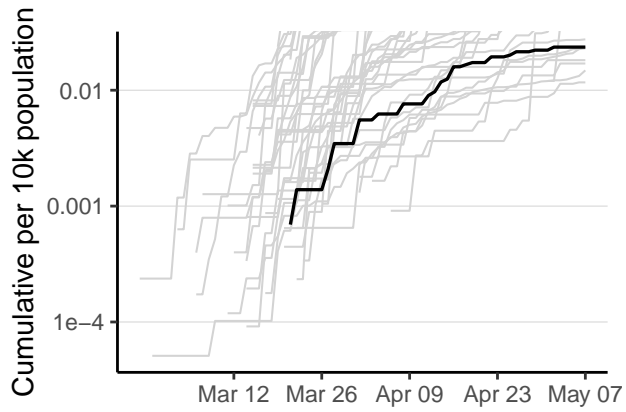
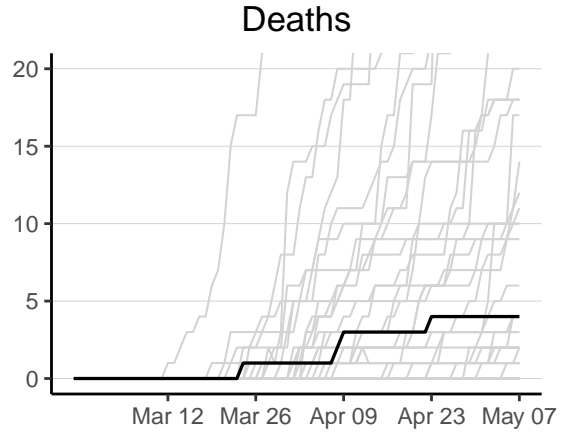
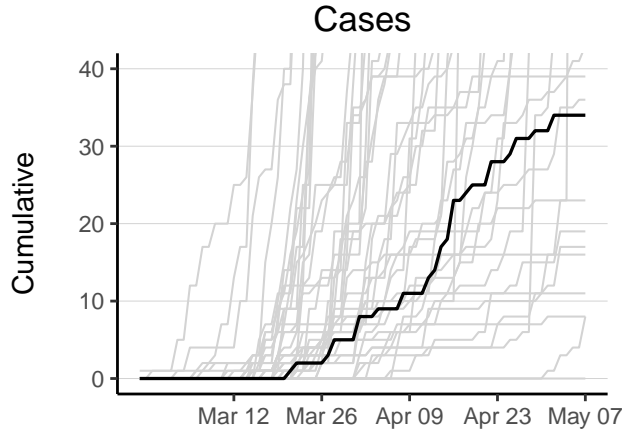
# United Republic of Tanzania



# Zambia



# Zimbabwe



# Appendix

## Data

### Sources and access

- Case counts for countries in WHO Africa Region from WHO Coronavirus disease (COVID-2019) situation reports <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports> (accessed 2400 07/05/2020).
- Death counts for countries in WHO African Region from WHO Coronavirus disease (COVID-2019) situation reports <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports> (accessed 2400 07/05/2020).
- Population counts from the World Bank (2018) <https://data.worldbank.org/indicator/SP.POP.TOTL?locations=ZG> (accessed 0900 30/03/2020).

### Doubling time calculations

Calculated over prior 7 days using method described by *E. Vynnycky & R. White (2010) An Introduction to Infectious Disease Modelling*, page 74.

Confidence intervals calculated using bootstrapping of a simulated dataset with Poisson error structure, using method published here: <https://doi.org/10.1101/2020.02.05.20020750>.

### Caveats

- Case count data are affected by any changes in testing strategy or testing effort over time and/or any variation in testing strategy or testing effort between regions.
- Case count data are likely a substantial under-representation of the true number of COVID-19 infections.
- Death data are considered more reliable but may lag behind case data by as much as 3 weeks.
- Data are provided by WHO Afro but were smoothed where necessary (e.g. if a decrease in cumulative count was reported) for doubling time calculations.



## Extended Data tables

### Cumulative reported cases

Country	Cum. reported cases	95%CI lower	95%CI upper
South Africa	7808	7653.0	7935.1
Algeria	4997	4879.9	5113.1
Nigeria	3145	3044.0	3219.0
Ghana	2719	2631.0	2804.0
Cameroon	2265	2171.9	2331.1
Guinea	1856	1787.0	1928.0
Cote d'Ivoire	1516	1449.0	1583.0
Senegal	1433	1293.0	1417.0
Democratic Republic of the Congo	797	751.0	845.0
Niger	770	726.0	815.0
Burkina Faso	729	686.0	774.0
Mali	631	592.0	669.0
Kenya	582	500.0	576.0
Guinea-Bissau	508	472.0	546.0
United Republic of Tanzania	480	447.0	517.0
Equatorial Guinea	439	407.0	475.0
Gabon	397	363.9	428.0
Mauritius	332	302.0	366.0
Rwanda	268	241.0	295.0
Congo	264	238.0	290.0
Sierra Leone	225	200.0	250.0
Madagascar	193	170.0	214.0
Cabo Verde	191	168.9	214.0
Liberia	178	157.0	200.0
Sao Tome and Principe	174	154.0	196.0
Chad	170	148.0	192.0
Ethiopia	162	142.0	183.0
Zambia	139	121.0	159.0
Togo	128	109.0	147.0
Eswatini	123	105.0	140.0
Benin	102	87.0	120.0
Uganda	98	81.0	114.0
Central African Republic	94	79.0	111.0
Mozambique	81	67.0	96.0
South Sudan	58	46.0	71.0
Malawi	43	32.0	55.0
Eritrea	39	29.0	51.0
Angola	36	26.0	46.0
Zimbabwe	34	25.0	44.0
Botswana	23	16.0	31.0
Burundi	19	12.0	26.0
Gambia	17	10.0	24.0
Namibia	16	10.0	23.0
Seychelles	11	6.0	17.0
Comoros	8	4.0	13.0
Mauritania	8	4.0	13.0
Lesotho	0	0.0	0.0

## Cumulative reported cases per 10,000 population

Country	Cum. reported cases per 10k pop	95%CI lower	95%CI upper
Sao Tome and Principe	8.2453513	7.3	9.3
Cabo Verde	3.5125339	3.1	3.9
Equatorial Guinea	3.3537717	3.1	3.6
Guinea-Bissau	2.7103322	2.5	2.9
Mauritius	2.6238774	2.4	2.9
Gabon	1.8732821	1.7	2.0
Guinea	1.4950479	1.4	1.6
South Africa	1.3513415	1.3	1.4
Algeria	1.1833260	1.2	1.2
Seychelles	1.1368099	0.6	1.8
Ghana	0.9134243	0.9	0.9
Senegal	0.9038523	0.8	0.9
Eswatini	0.8997805	0.8	1.0
Cameroon	0.8982308	0.9	0.9
Cote d'Ivoire	0.6047254	0.6	0.6
Congo	0.5033976	0.5	0.6
Liberia	0.3693730	0.3	0.4
Burkina Faso	0.3690852	0.3	0.4
Niger	0.3430922	0.3	0.4
Mali	0.3307528	0.3	0.4
Sierra Leone	0.2941117	0.3	0.3
Rwanda	0.2178518	0.2	0.2
Central African Republic	0.2014411	0.2	0.2
Togo	0.1622493	0.1	0.2
Nigeria	0.1605618	0.2	0.2
Kenya	0.1132450	0.1	0.1
Chad	0.1098351	0.1	0.1
Botswana	0.1020351	0.1	0.1
Comoros	0.0961166	0.0	0.2
Democratic Republic of the Congo	0.0948041	0.1	0.1
Benin	0.0888111	0.1	0.1
United Republic of Tanzania	0.0852298	0.1	0.1
Zambia	0.0801069	0.1	0.1
Gambia	0.0745581	0.0	0.1
Madagascar	0.0734892	0.1	0.1
Namibia	0.0653527	0.0	0.1
Eritrea	0.0644628	0.0	0.1
South Sudan	0.0528430	0.0	0.1
Mozambique	0.0274614	0.0	0.0
Malawi	0.0237002	0.0	0.0
Zimbabwe	0.0235473	0.0	0.0
Uganda	0.0229384	0.0	0.0
Mauritania	0.0181681	0.0	0.0
Burundi	0.0170017	0.0	0.0
Ethiopia	0.0148318	0.0	0.0
Angola	0.0116846	0.0	0.0
Lesotho	0.0000000	0.0	0.0

## Cumulative deaths

Country	Cum. reported deaths	95%CI lower	95%CI upper
Algeria	476	440	513
South Africa	153	133	172
Cameroon	108	90	125
Nigeria	103	88	121
Burkina Faso	48	37	60
Niger	38	28	49
Democratic Republic of the Congo	35	26	45
Mali	32	23	42
Kenya	26	19	35
Liberia	20	13	28
Cote d'Ivoire	18	11	25
Ghana	18	11	25
United Republic of Tanzania	18	11	25
Chad	17	10	24
Sierra Leone	14	8	20
Senegal	12	6	17
Guinea	11	6	17
Congo	10	5	15
Mauritius	10	4	14
Togo	9	4	14
Gabon	6	2	10
Equatorial Guinea	4	1	8
Ethiopia	4	1	7
Zambia	4	1	8
Zimbabwe	4	1	8
Malawi	3	0	6
Sao Tome and Principe	3	0	6
Angola	2	0	5
Benin	2	0	5
Cabo Verde	2	0	5
Eswatini	2	0	4
Guinea-Bissau	2	0	4
Botswana	1	0	3
Burundi	1	0	3
Comoros	1	0	3
Gambia	1	0	3
Mauritania	1	0	3
Central African Republic	0	0	0
Eritrea	0	0	0
Lesotho	0	0	0
Madagascar	0	0	0
Mozambique	0	0	0
Namibia	0	0	0
Rwanda	0	0	0
Seychelles	0	0	0
South Sudan	0	0	0
Uganda	0	0	0

## Cumulative deaths per 10,000 populations

Country	Cum. reported deaths per 10k pop	95%CI lower	95%CI upper
Sao Tome and Principe	0.1421612	0.0	0.3
Algeria	0.1127203	0.1	0.1
Mauritius	0.0790325	0.0	0.1
Cameroon	0.0428295	0.0	0.0
Liberia	0.0415026	0.0	0.1
Cabo Verde	0.0367805	0.0	0.1
Equatorial Guinea	0.0305583	0.0	0.1
Gabon	0.0283116	0.0	0.0
South Africa	0.0264799	0.0	0.0
Burkina Faso	0.0243019	0.0	0.0
Congo	0.0190681	0.0	0.0
Sierra Leone	0.0183003	0.0	0.0
Niger	0.0169318	0.0	0.0
Mali	0.0167735	0.0	0.0
Eswatini	0.0146306	0.0	0.0
Comoros	0.0120146	0.0	0.0
Togo	0.0114082	0.0	0.0
Chad	0.0109835	0.0	0.0
Guinea-Bissau	0.0106706	0.0	0.0
Guinea	0.0088607	0.0	0.0
Senegal	0.0075689	0.0	0.0
Cote d'Ivoire	0.0071801	0.0	0.0
Ghana	0.0060469	0.0	0.0
Nigeria	0.0052585	0.0	0.0
Kenya	0.0050591	0.0	0.0
Botswana	0.0044363	0.0	0.0
Gambia	0.0043858	0.0	0.0
Democratic Republic of the Congo	0.0041633	0.0	0.0
United Republic of Tanzania	0.0031961	0.0	0.0
Zimbabwe	0.0027703	0.0	0.0
Zambia	0.0023052	0.0	0.0
Mauritania	0.0022710	0.0	0.0
Benin	0.0017414	0.0	0.0
Malawi	0.0016535	0.0	0.0
Burundi	0.0008948	0.0	0.0
Angola	0.0006491	0.0	0.0
Ethiopia	0.0003662	0.0	0.0
Central African Republic	0.0000000	0.0	0.0
Eritrea	0.0000000	0.0	0.0
Lesotho	0.0000000	0.0	0.0
Madagascar	0.0000000	0.0	0.0
Mozambique	0.0000000	0.0	0.0
Namibia	0.0000000	0.0	0.0
Rwanda	0.0000000	0.0	0.0
Seychelles	0.0000000	0.0	0.0
South Sudan	0.0000000	0.0	0.0
Uganda	0.0000000	0.0	0.0

## Doubling time (cases)

Country	Doubling time (days)	95%CI lower	95%CI upper
Sao Tome and Principe	1.8	1.5	2.1
Guinea-Bissau	2.6	2.3	2.8
Chad	4.1	3.5	4.8
Nigeria	6.7	6.4	7.0
Sierra Leone	7.3	6.2	8.6
Central African Republic	7.7	6.0	10.1
South Sudan	9.1	6.5	13.3
Cabo Verde	9.2	7.8	11.2
Ghana	10.0	9.5	10.5
Democratic Republic of the Congo	10.4	9.5	11.5
Gambia	11.1	6.2	26.6
Senegal	11.3	10.6	12.2
Madagascar	11.8	9.9	15.0
Benin	12.4	9.5	17.1
South Africa	12.8	12.4	13.3
Gabon	13.3	11.6	15.7
Zambia	13.5	10.7	18.0
Kenya	14.5	12.7	16.6
Equatorial Guinea	14.6	12.7	17.0
Guinea	15.3	14.3	16.6
Eswatini	16.1	12.4	22.1
Angola	16.9	10.6	35.1
Mali	18.0	15.8	20.7
Algeria	18.6	17.7	19.4
Burundi	20.5	10.3	75.2
Liberia	20.8	16.3	28.4
Cameroon	21.3	19.8	23.0
Ethiopia	22.0	17.0	30.5
Uganda	22.5	16.0	35.3
Cote d'Ivoire	24.0	21.7	26.4
Congo	26.6	21.4	35.4
Malawi	27.3	16.5	60.6
Rwanda	27.7	22.1	36.3
Togo	30.2	21.5	46.4
Mauritania	36.3	12.0	Inf
Burkina Faso	36.4	31.0	44.8
Niger	63.1	51.9	78.9
Mozambique	76.2	42.8	223.4
Zimbabwe	80.0	35.1	Inf
Botswana	NA	Inf	Inf
Eritrea	NA	Inf	Inf
Mauritius	NA	Inf	Inf
Namibia	NA	Inf	Inf
Seychelles	NA	Inf	Inf
United Republic of Tanzania	NA	Inf	Inf
Comoros	NA	NA	NA
Lesotho	NA	NA	NA

## Doubling time (deaths)

Country	Doubling time (days)	95%CI lower	95%CI upper
Chad	2.3	1.6	3.7
Equatorial Guinea	3.5	2.5	Inf
Sierra Leone	4.7	2.5	8.6
Nigeria	5.7	4.5	7.3
Cabo Verde	7.0	4.4	Inf
Eswatini	7.0	4.4	Inf
Gabon	7.0	3.0	31.5
Guinea-Bissau	7.0	4.4	Inf
Cameroon	7.9	6.3	10.2
Kenya	8.3	5.4	14.7
Guinea	10.7	4.9	41.2
South Africa	12.2	9.8	15.5
Ethiopia	16.9	5.3	Inf
Zambia	16.9	5.3	Inf
Cote d'Ivoire	19.3	9.5	75.2
Togo	19.3	7.0	Inf
Mali	19.7	11.5	42.9
Liberia	21.7	11.0	84.9
Senegal	24.2	9.5	Inf
Niger	28.2	15.9	75.2
Burkina Faso	36.3	21.3	97.0
Democratic Republic of the Congo	40.0	21.1	167.4
Ghana	41.2	17.7	Inf
United Republic of Tanzania	41.2	16.9	Inf
Congo	46.1	14.4	Inf
Algeria	69.7	53.4	96.5
Angola	NA	Inf	Inf
Benin	NA	Inf	Inf
Botswana	NA	Inf	Inf
Burundi	NA	Inf	Inf
Gambia	NA	Inf	Inf
Malawi	NA	Inf	Inf
Mauritania	NA	Inf	Inf
Mauritius	NA	Inf	Inf
Zimbabwe	NA	Inf	Inf
Central African Republic	NA	NA	NA
Comoros	NA	NA	NA
Eritrea	NA	NA	NA
Lesotho	NA	NA	NA
Madagascar	NA	NA	NA
Mozambique	NA	NA	NA
Namibia	NA	NA	NA
Rwanda	NA	NA	NA
Sao Tome and Principe	NA	NA	NA
Seychelles	NA	NA	NA
South Sudan	NA	NA	NA
Uganda	NA	NA	NA