Country Summary: Guinea, U5MR

Contents

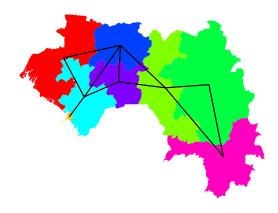
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1 Intro

These estimates are created using the BB8 model for Admin 2 estimates using a AR1xICAR interaction model with area-specific random slopes.

Guinea has 8 Admin 1 areas and 34 Admin 2 areas.

All uncertainty intervals displayed in subsequent figures are 95% intervals.



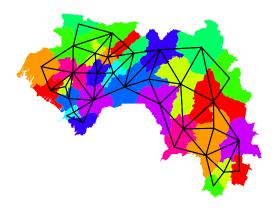


Figure 1: Top: The neighborhood structure of Admin 1 areas. Bottom: The neighborhood structure of Admin 2 areas.

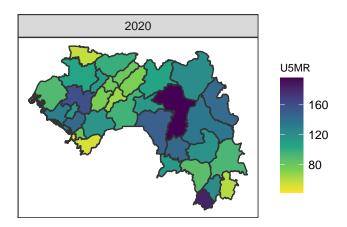
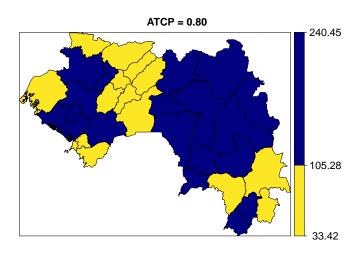


Figure 2: Median estimates of U5MR (deaths per 1000 children) in 2020.



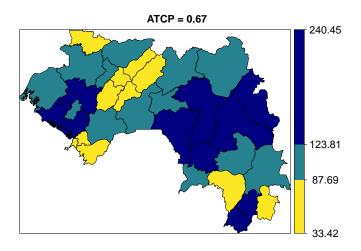


Figure 3: Expression of uncertainty of U5MR (deaths per 1000 children) based on the average true classification probability (ATCP) in 2020.

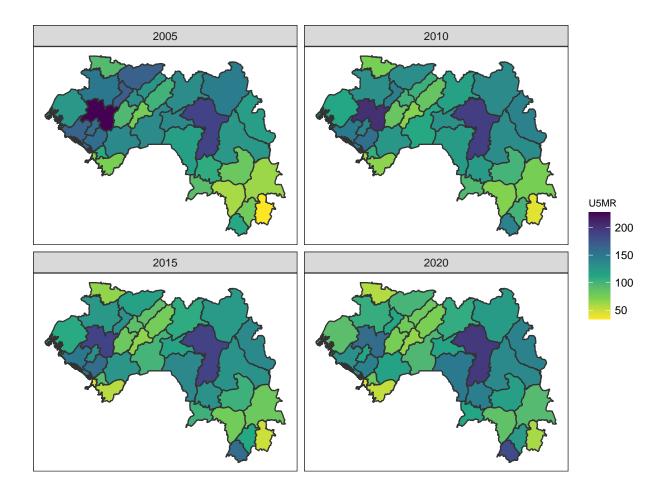
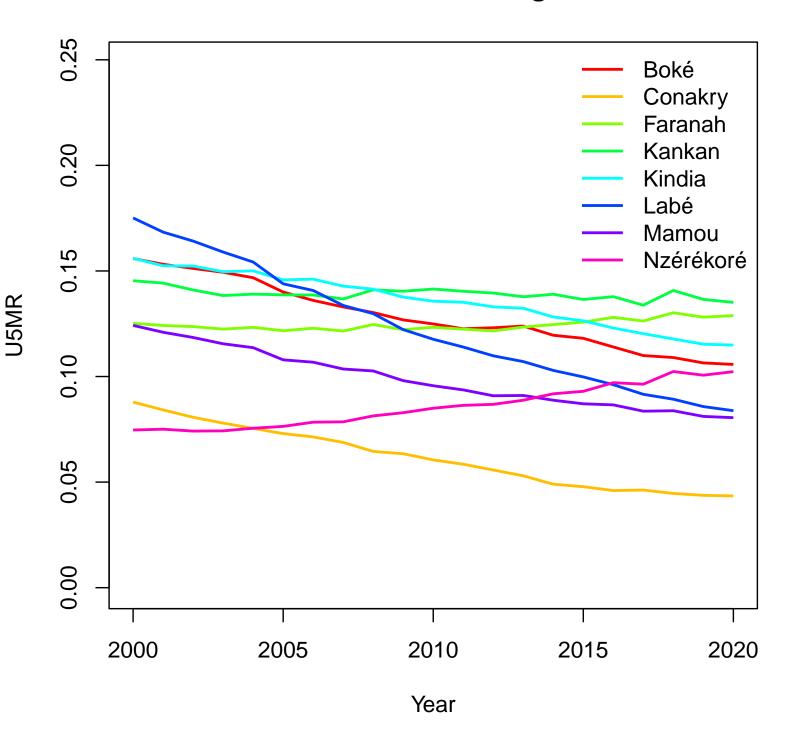
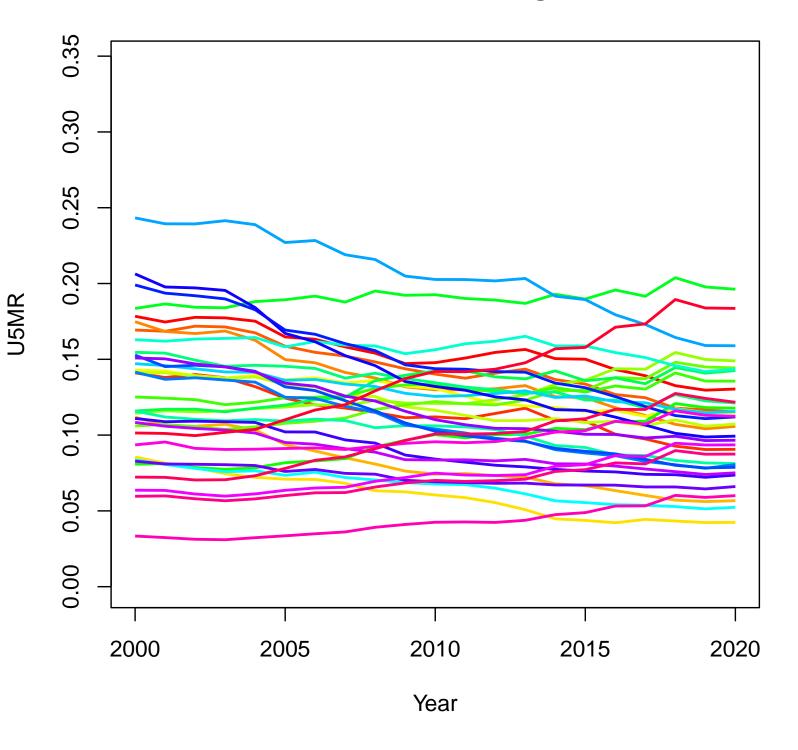


Figure 4: Median estimates for selected years.

Guinea – Admin 1 Regions



Guinea – Admin 2 Regions



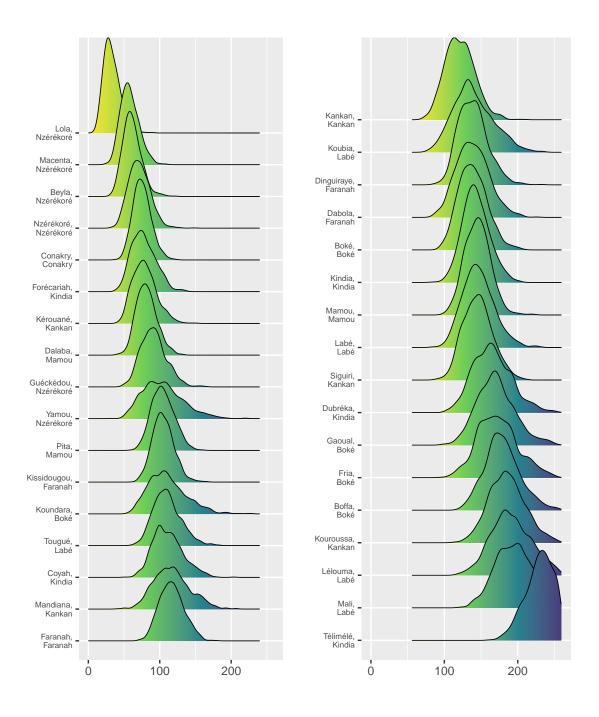
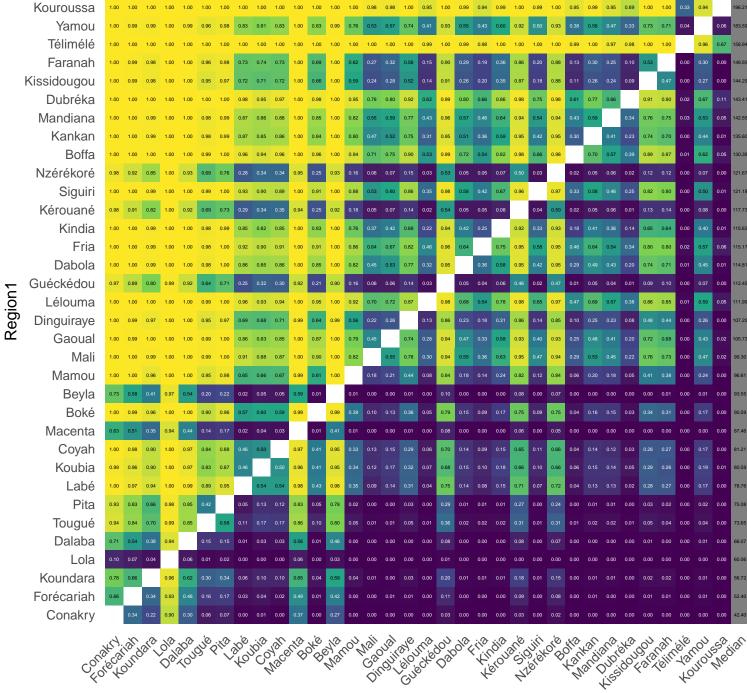


Figure 5: Posterior distributions of U5MR (deaths per 1000 children) in 2020. Areas are ordered by median estimated U5MR in 2020.



Region2

Probability of Region 1 > Region 2

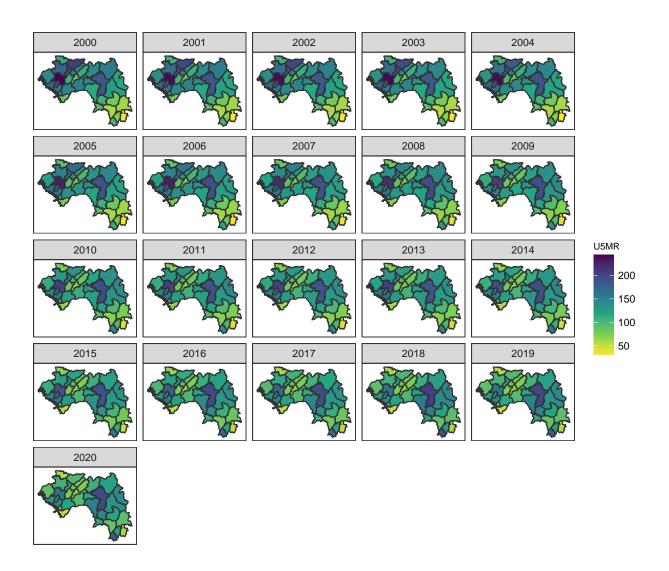


Figure 6: Posterior medians of U5MR (deaths per 1000 births) by Admin 2 area and year.

2 National Survey Data

Survey	Urban	Rural	Total
DHS 2018	138	263	401

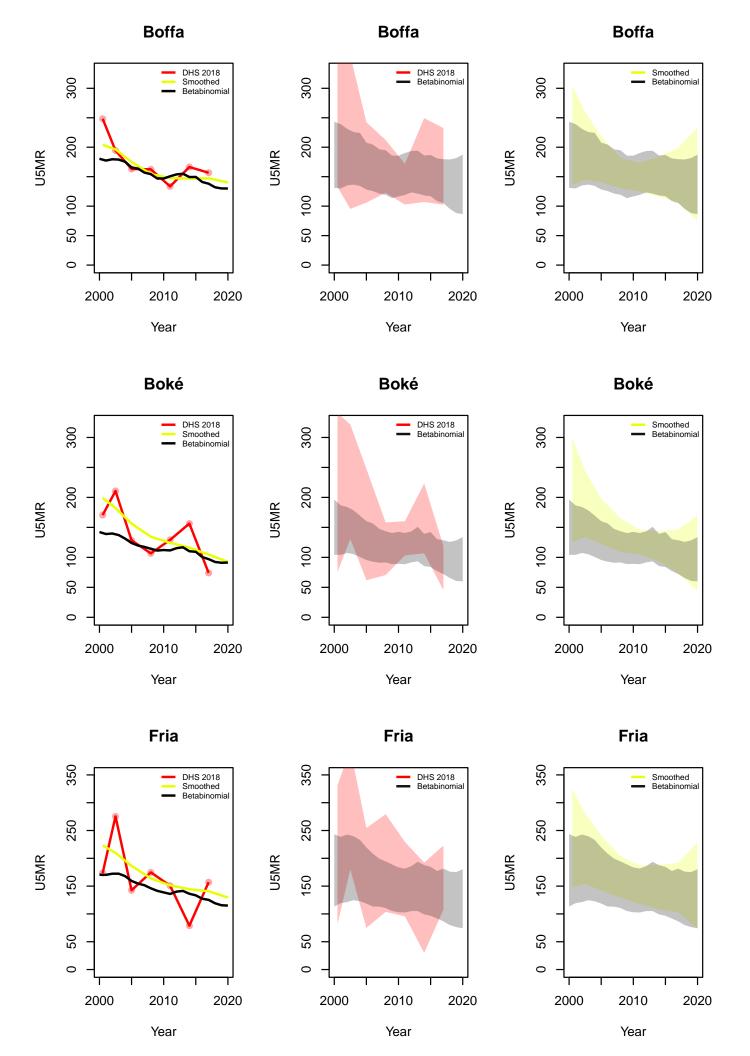
Table 1: Number of clusters by urban/rural designation by survey for Guinea.

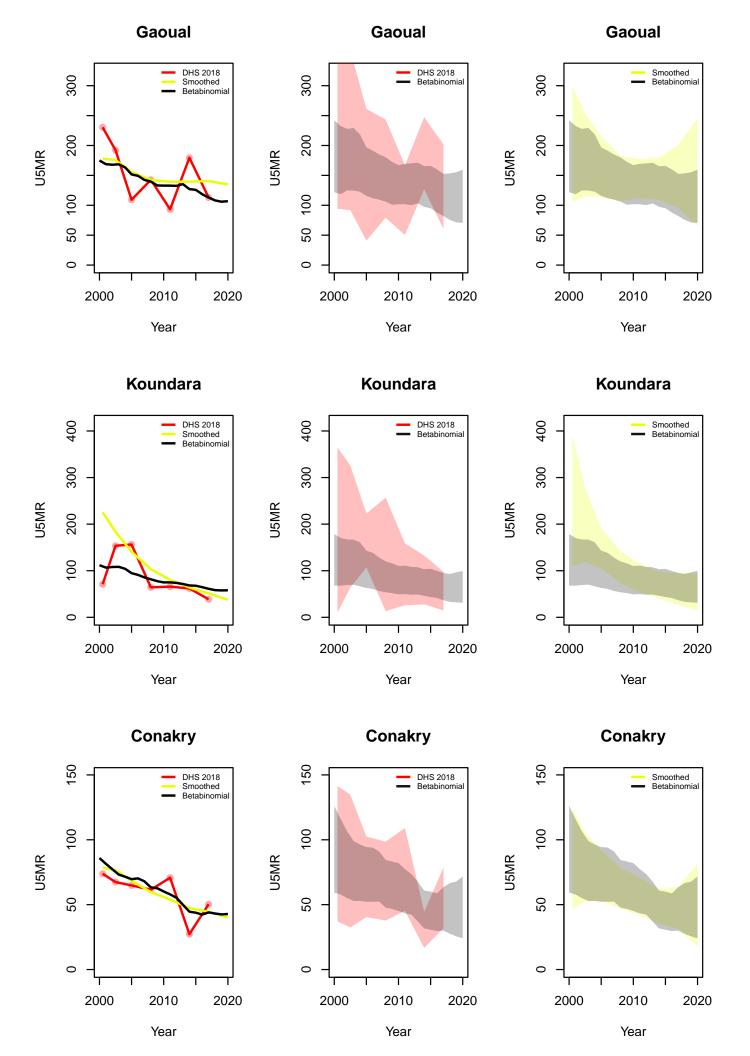
Age	No. Deaths	No. Agemonths
0	795	24458
1-11	744	248890
12 - 23	373	252812
24 - 35	367	240345
36 - 47	204	222856
48-59	115	208198

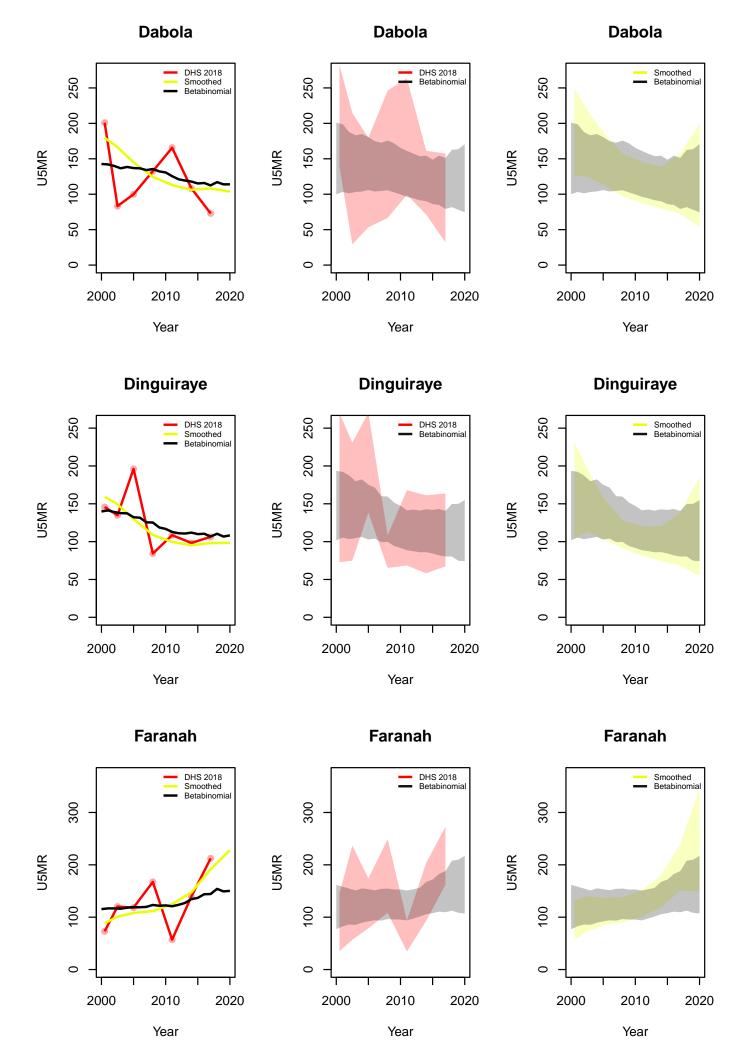
Table 2: Numbers of agemonths and deaths by age for DHS 2018.

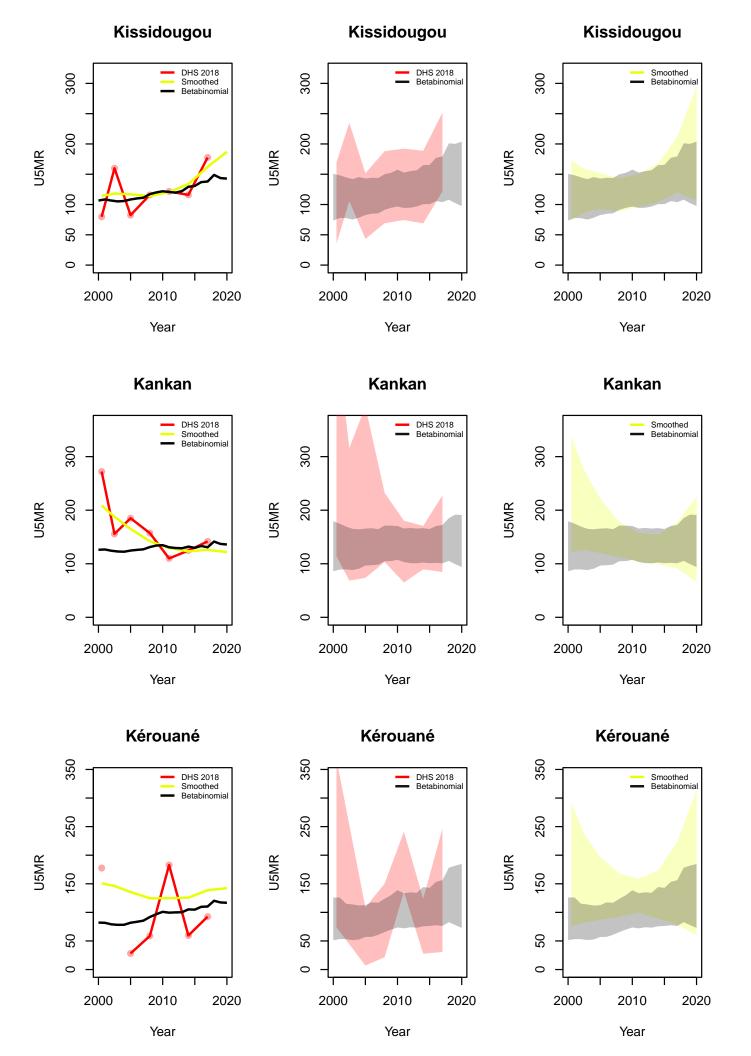
3 Admin 2 Figures

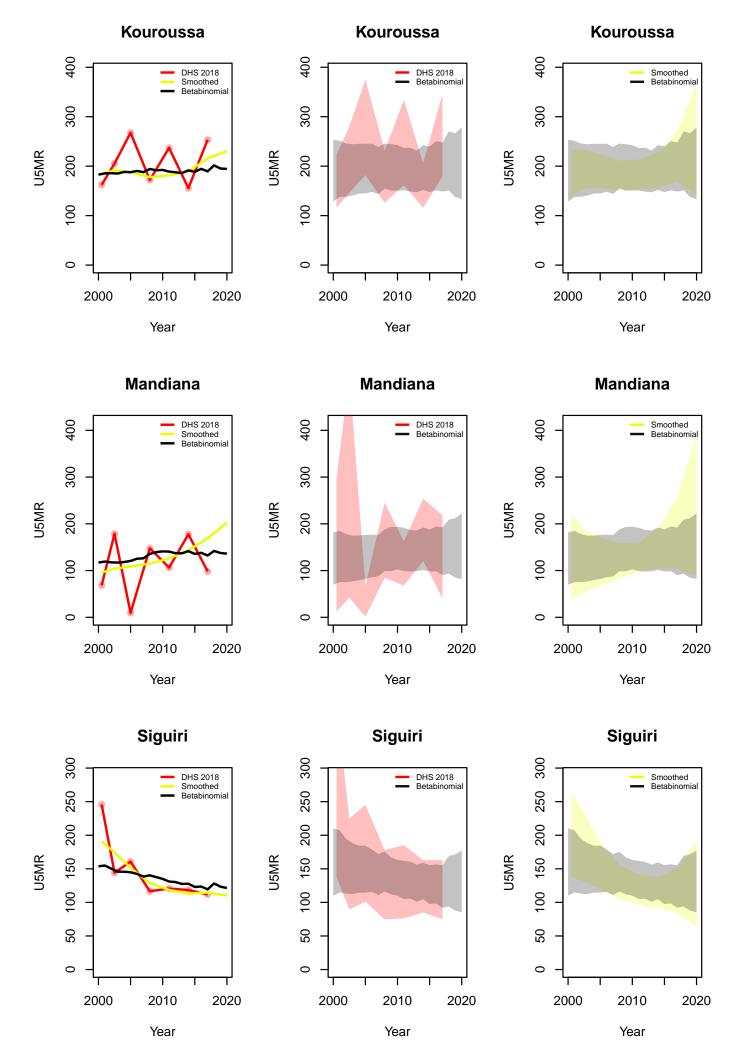
The following few pages show direct, smoothed direct, and Betabinomial estimates by area across time. There are three admin areas per page. Lines and corresponding intervals represent posterior medians and 95% uncertainty intervals respectively.

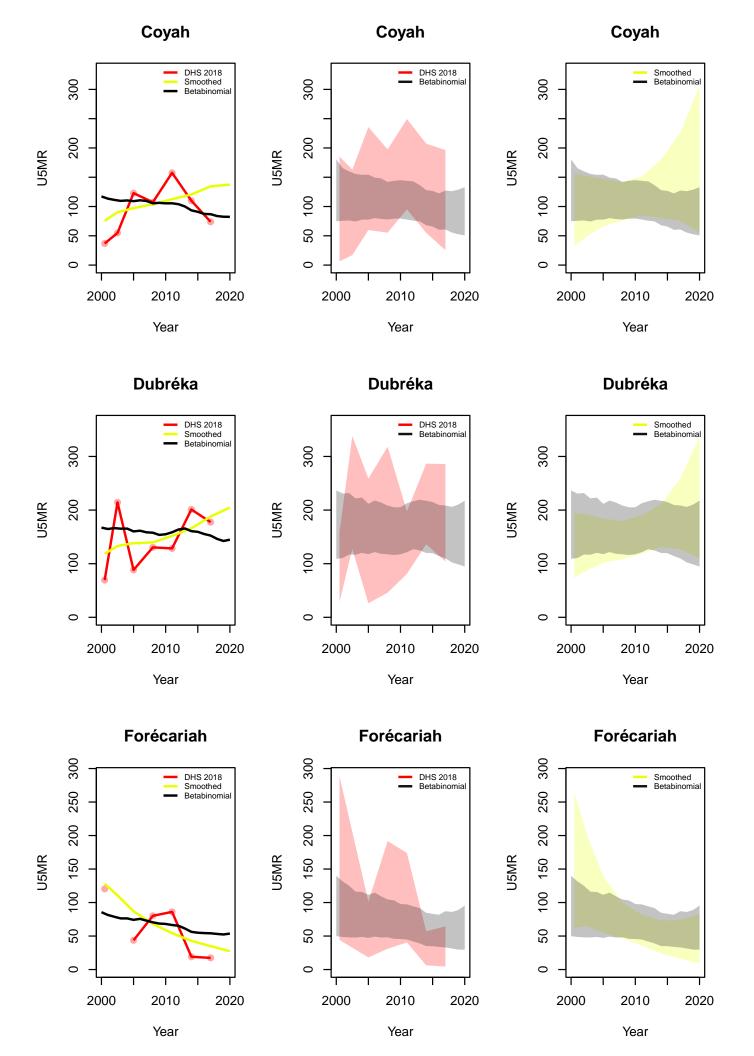


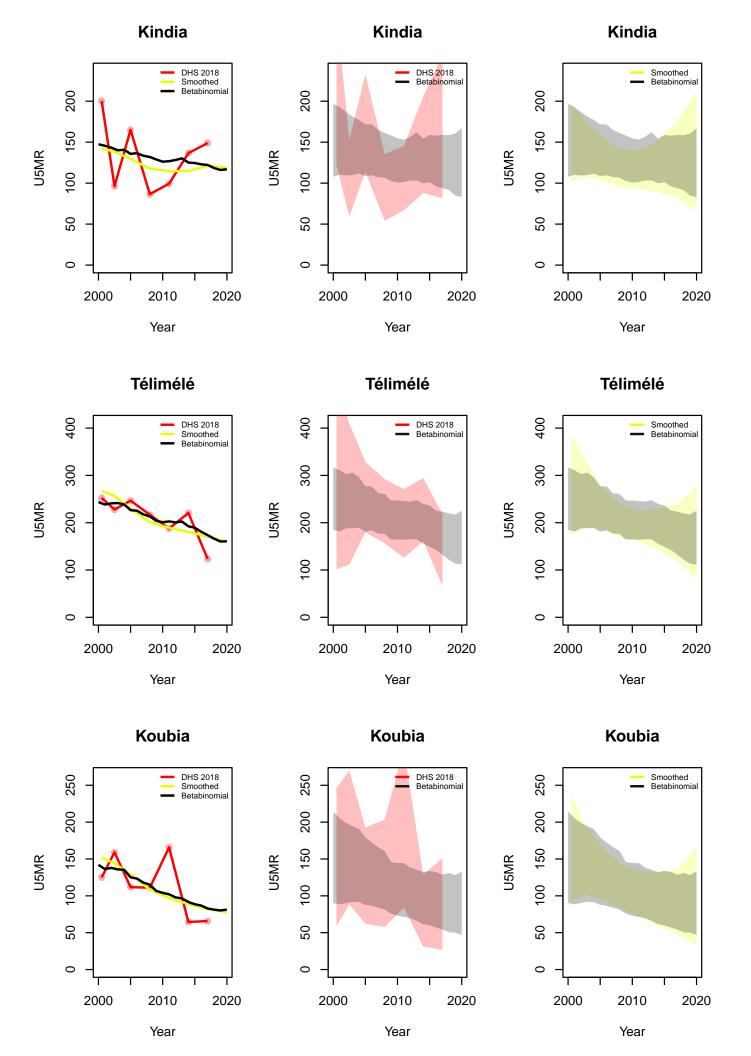


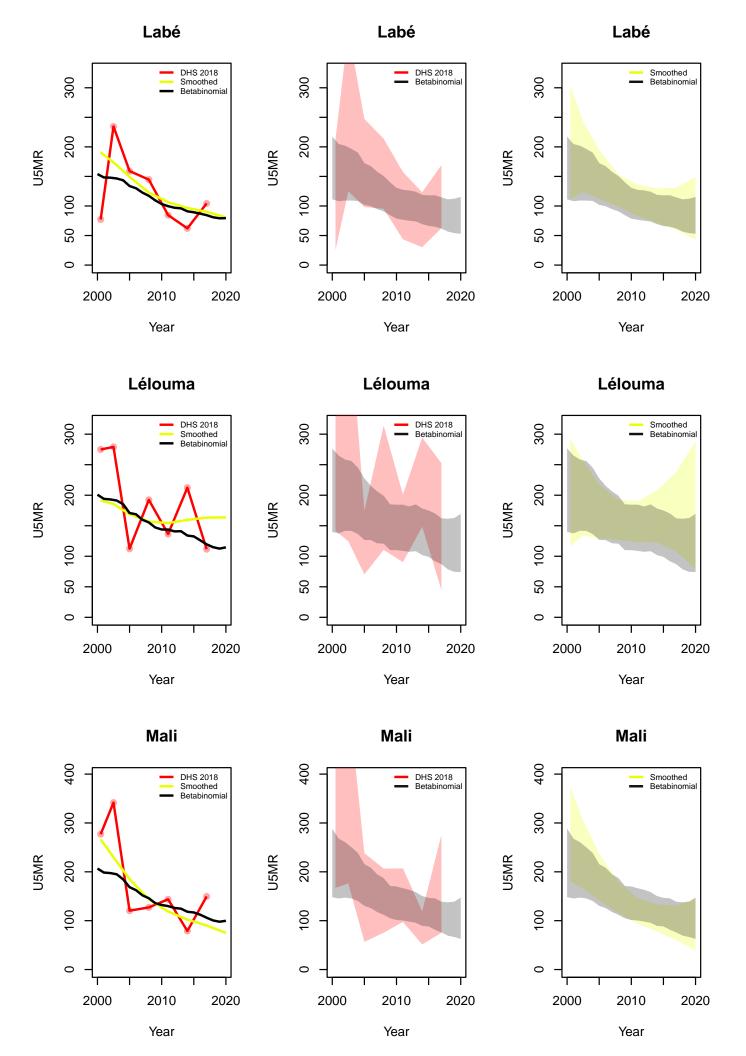


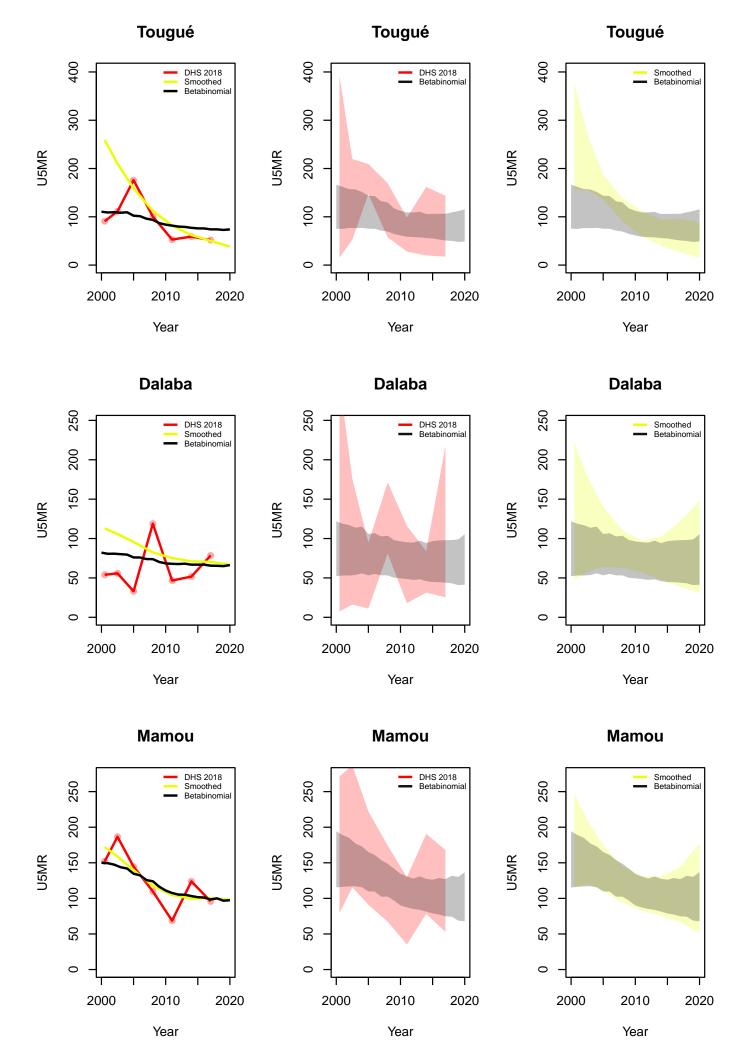


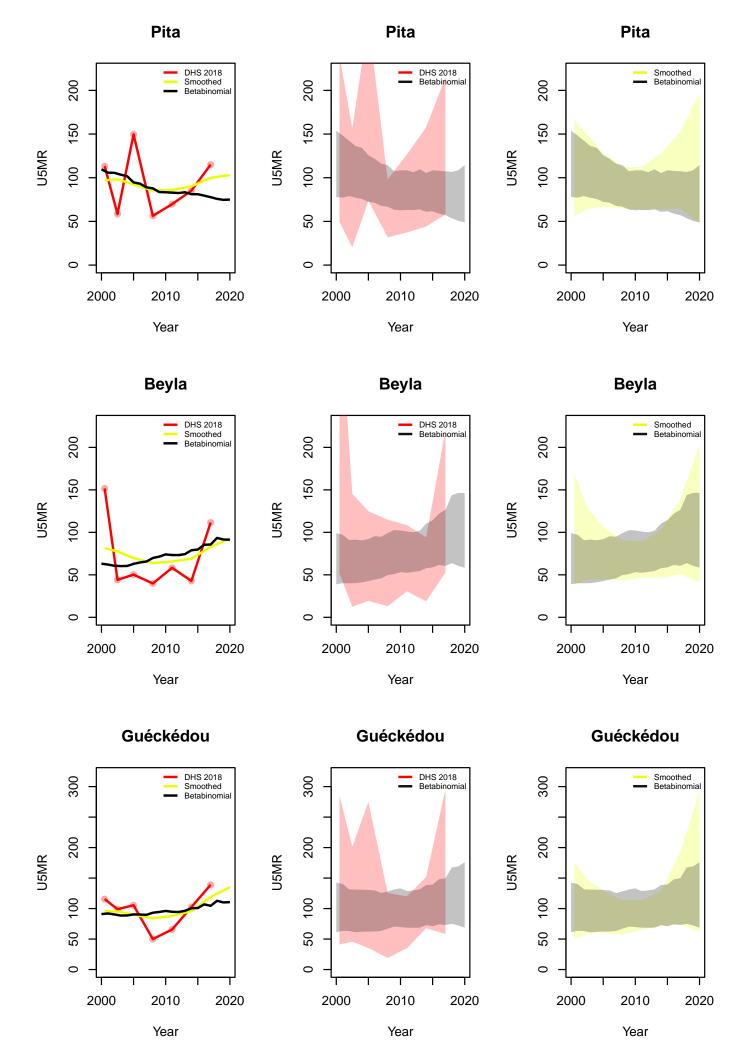


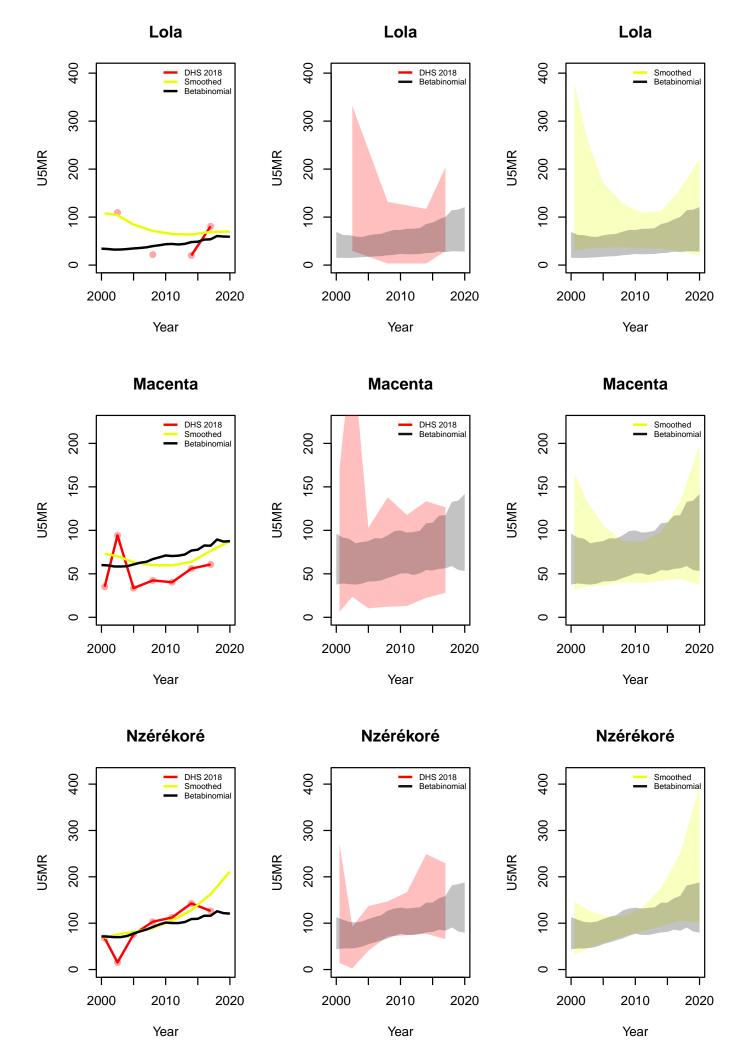


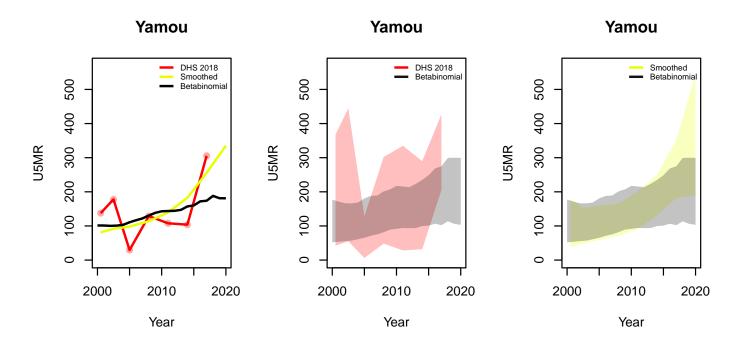












4 National Figures and Results

• Note: intervals need correcting

	Median	Interval
0:urban	26.00	(6.6,100.7)
1-11:urban	1.60	(0.3, 7.8)
12-23:urban	0.20	(0.1, 0.9)
24-35:urban	0.60	(0.2, 1.9)
36-47:urban	0.30	(0.1,1.2)
48-59:urban	0.10	(0,0.5)
0:rural	39.50	(11.7, 126.3)
1-11:rural	3.60	(1,13.6)
12-23:rural	0.40	(0.1, 1.4)
24-35:rural	1.50	(0.5, 3.9)
36-47:rural	1.00	(0.4, 2.7)
48-59:rural	0.30	(0.1, 0.8)

Table 3: Monthly hazards in terms of 1000 children by age band for national, stratified model for Guinea in 2020.

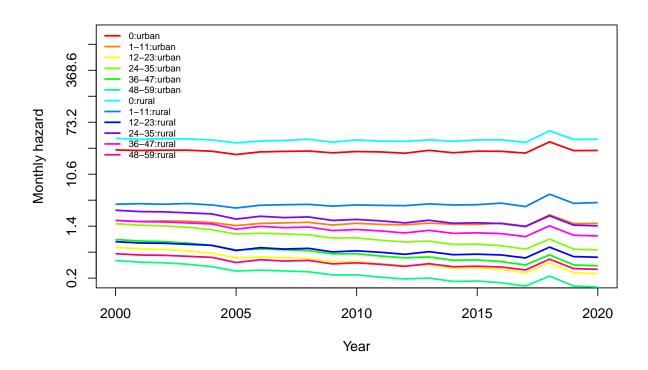


Figure 7: Monthly hazards of death in terms of U5MR (number deaths per 1000 children) by agebands.

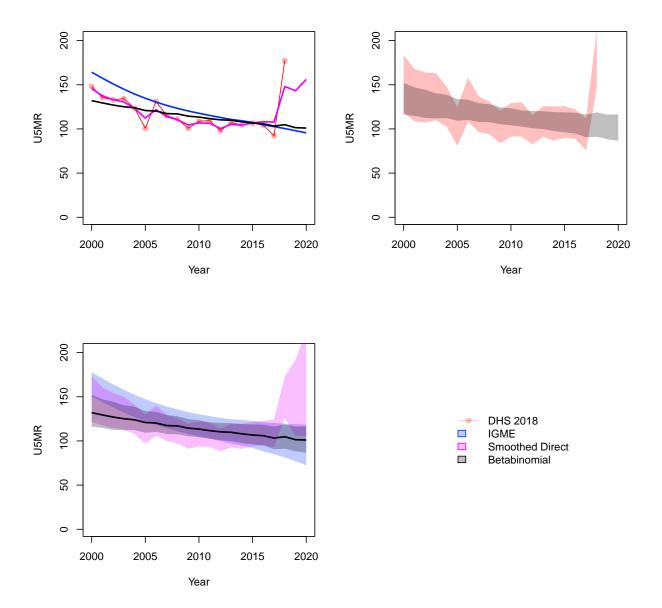


Figure 8: U5MR rates per 1000 live births. Top left: DHS direct estimates with national trends from UN-IGME, Smoothed Direct and Betabinomial estimates. Top right: 95% uncertainty intervals for DHS data and Betabinomial estimates. Bottom: 95% uncertainty intervals for UN-IGME, Smoothed Direct and Betabinomial estimates.

5 Admin 1 Figures

