

Country Summary: Lesotho

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1 Intro

These estimates are created using the BB8 model for Admin 1 estimates using a RW1xICAR interaction model with area-specific random slopes.

Lesotho has 10 Admin 1 areas.

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

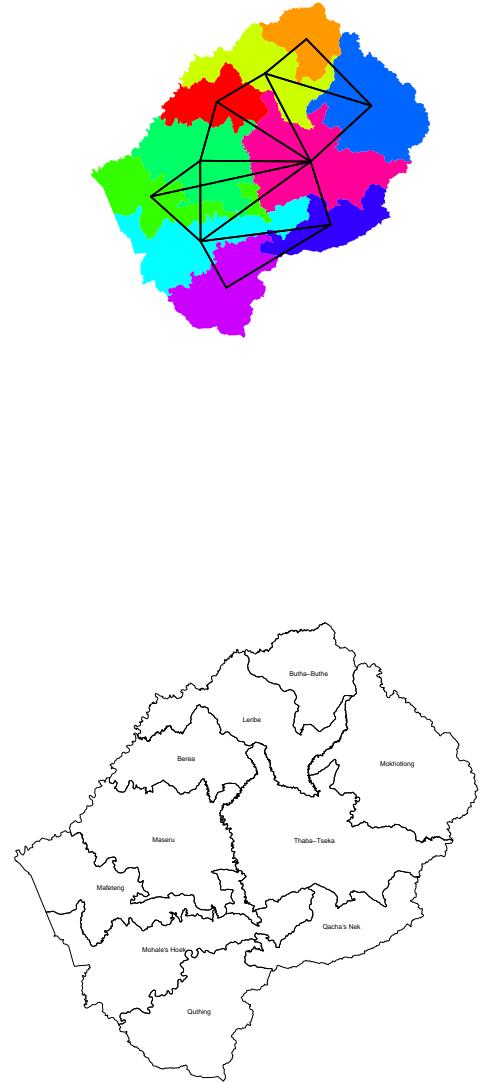


Figure 1: Top: The neighborhood structure of Admin 1 areas. Bottom: The names of Admin 1 areas.

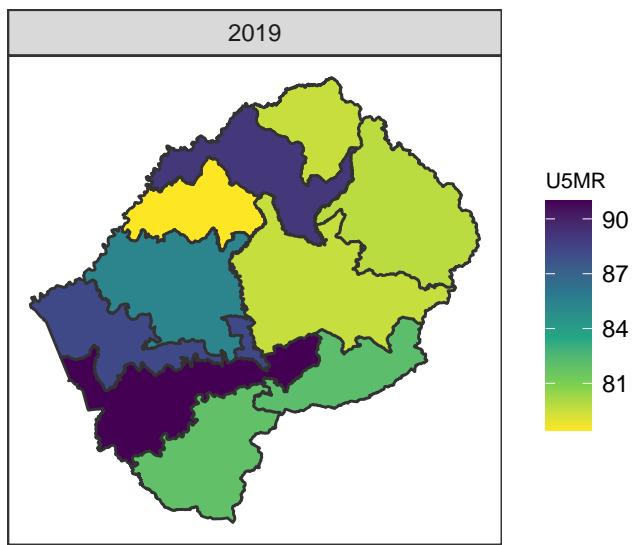


Figure 2: Median estimates of U5MR (deaths per 1000 children) in 2019.

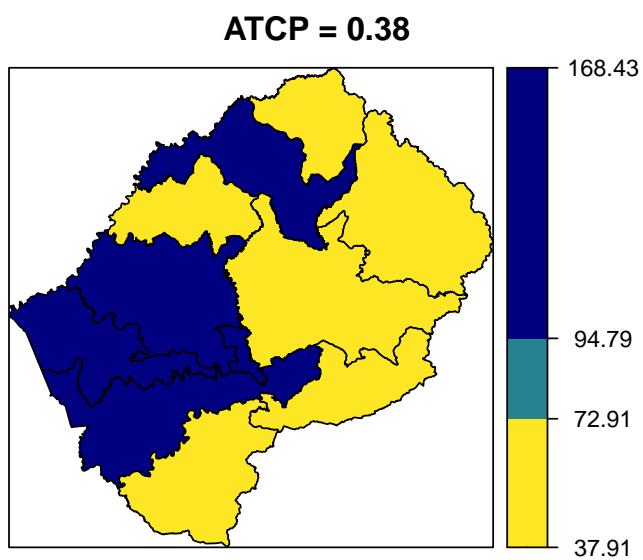
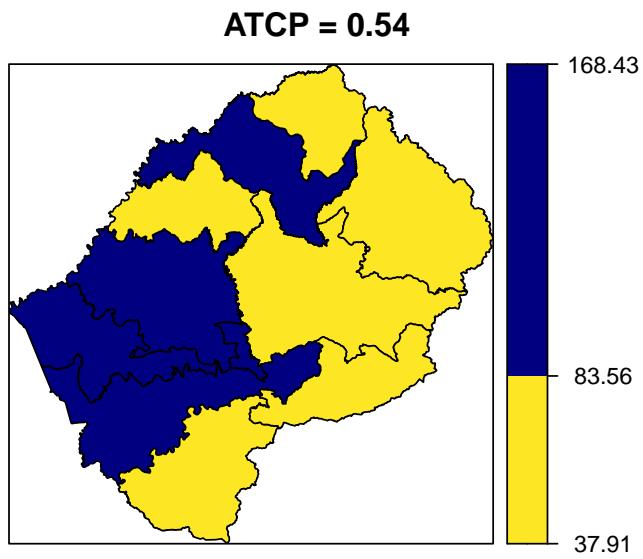


Figure 3: Expression of uncertainty of U5MR (deaths per 1000 children) based on the average true classification probability (ATCP) in 2019.

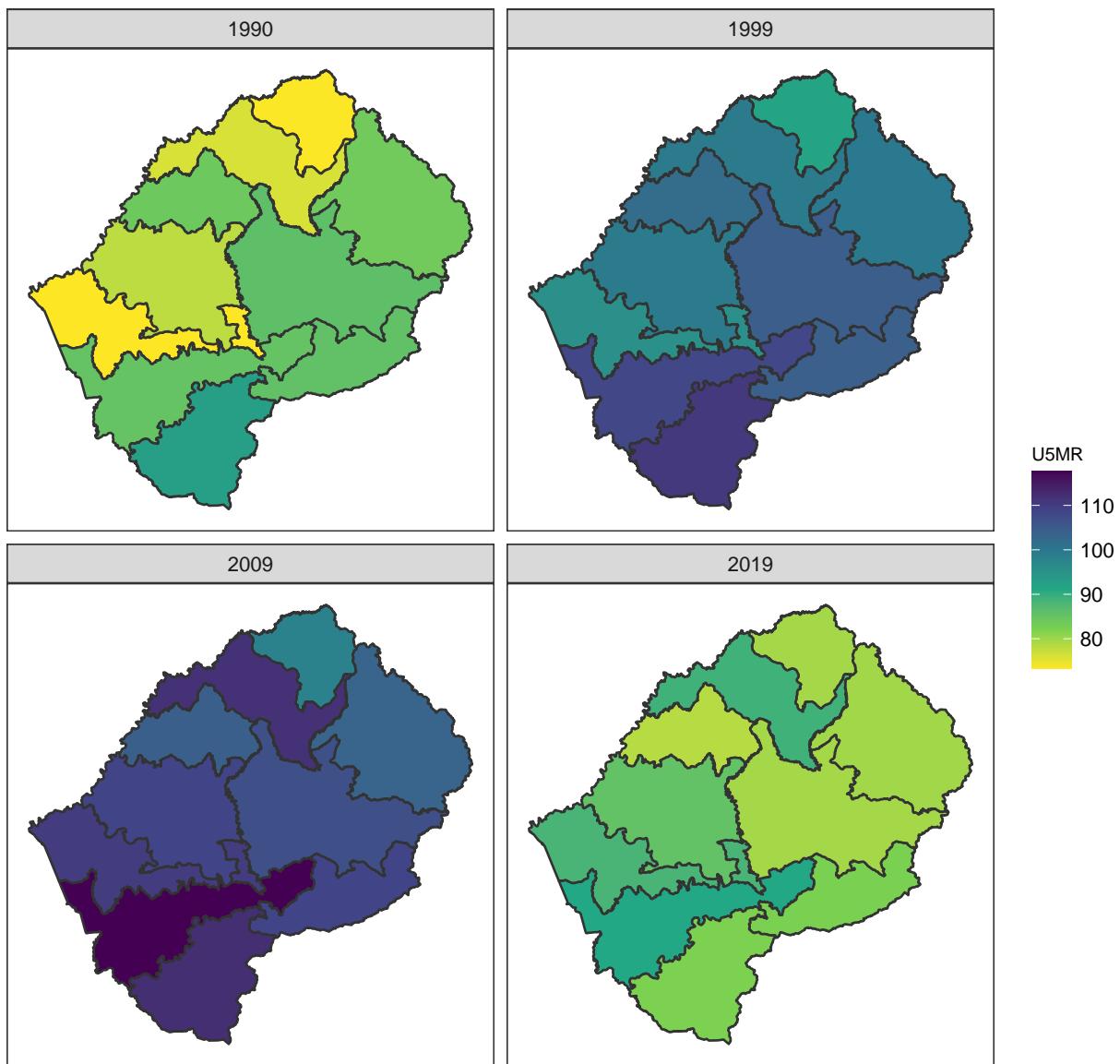
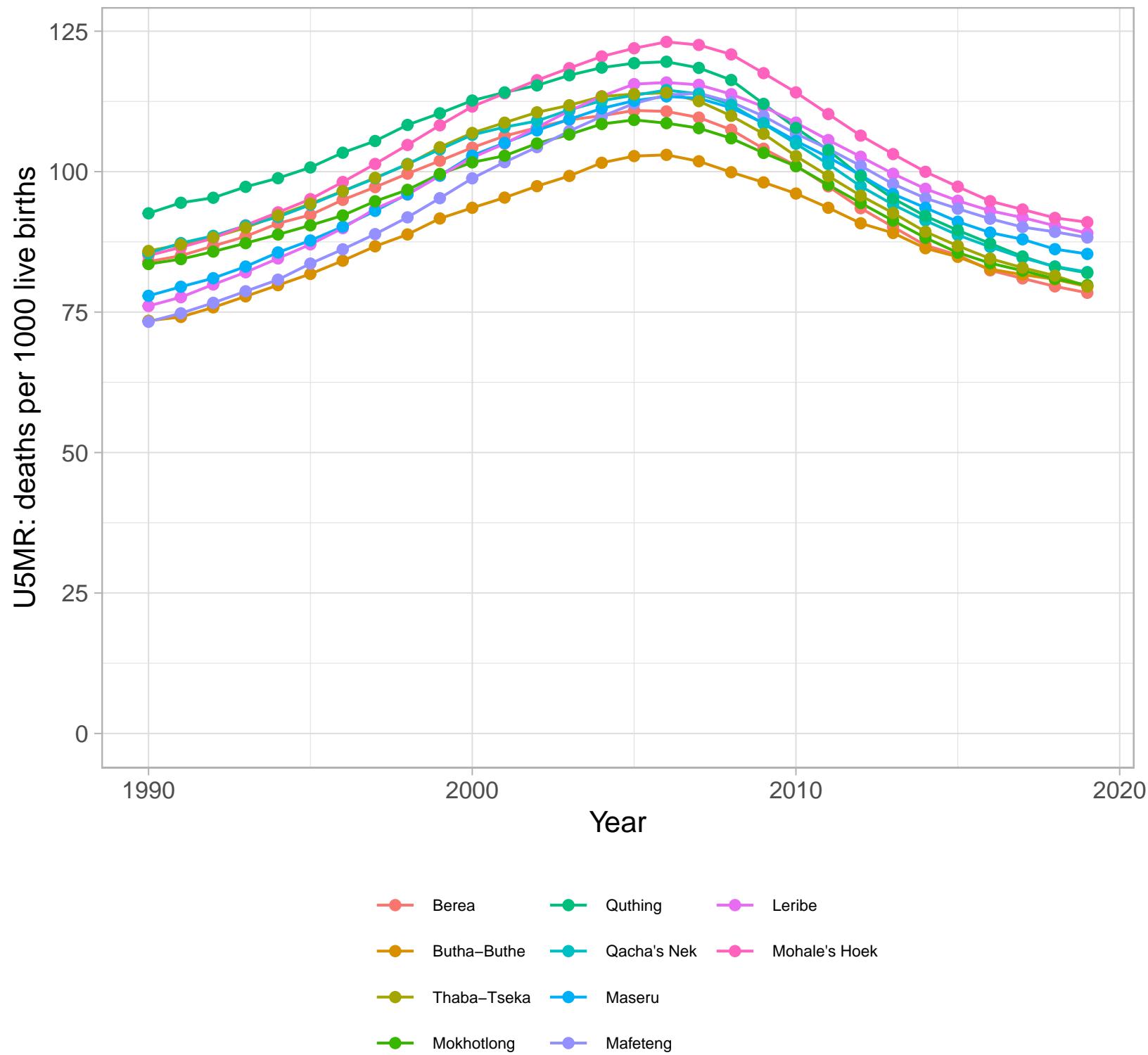


Figure 4: Median estimates for selected years.

Lesotho



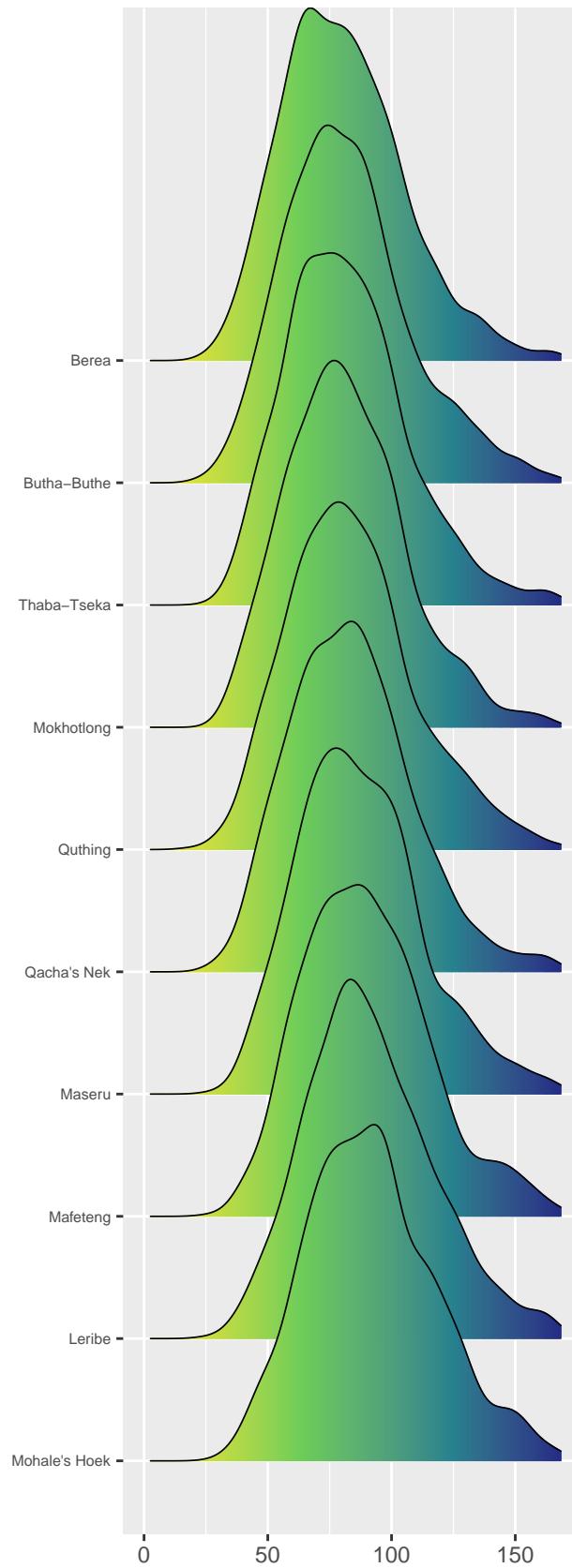


Figure 5: Posterior distributions of U5MR (deaths per 1000 children) in 2019. Areas are ordered by median estimated U5MR in 2019.

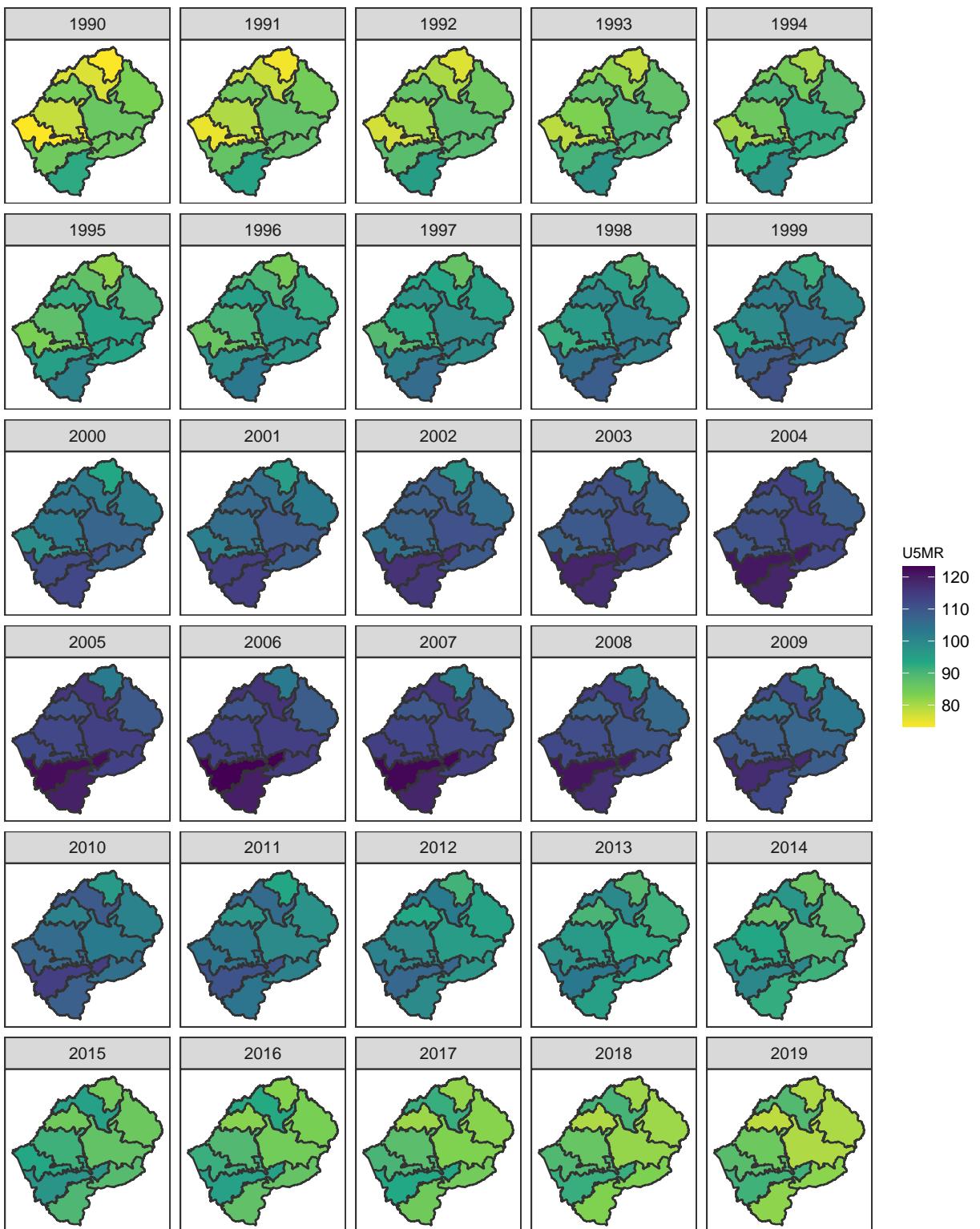


Figure 6: Posterior medians of U5MR (deaths per 1000 births) by Admin 1 area and year.

2 National Survey Data

Survey	Urban	Rural	Total
2004	104	277	381
2009	94	301	395
2014	118	281	399

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

Age	No. Deaths	No. Agemonths
0	374	11036
1-11	351	112359
12-23	112	113435
24-35	46	106595
36-47	27	100981
48-59	14	95518

Table 2: Numbers of agemonths and deaths by age for DHS 2014.

Age	No. Deaths	No. Agemonths
0	453	11865
1-11	404	120159
12-23	112	122696
24-35	43	116868
36-47	34	111691
48-59	8	106617

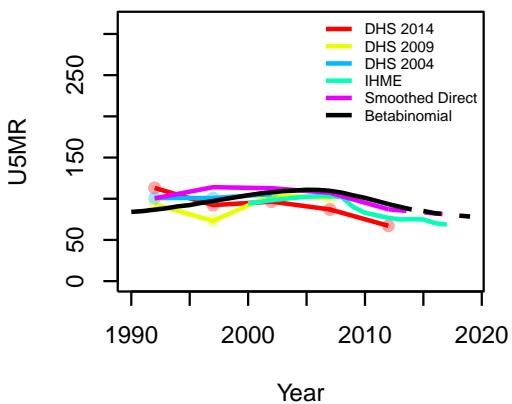
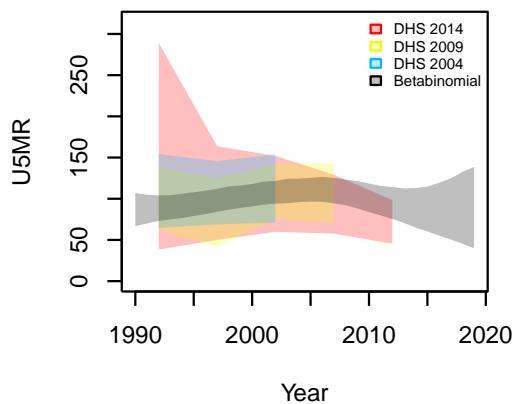
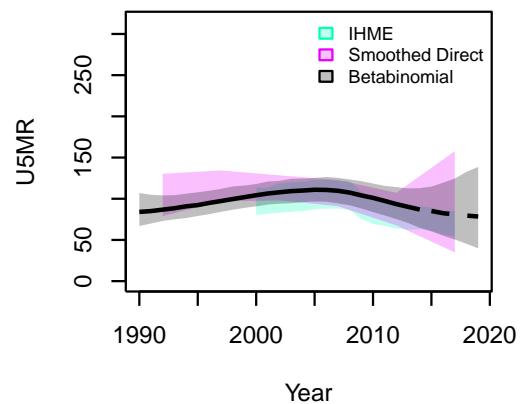
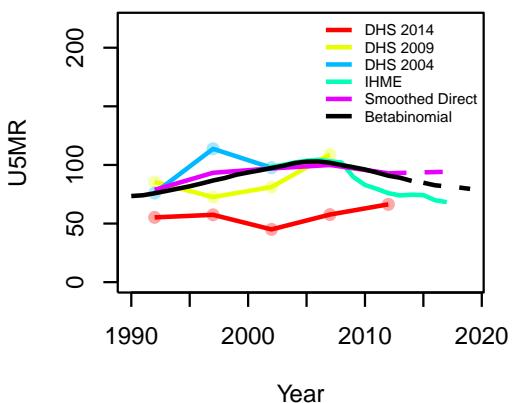
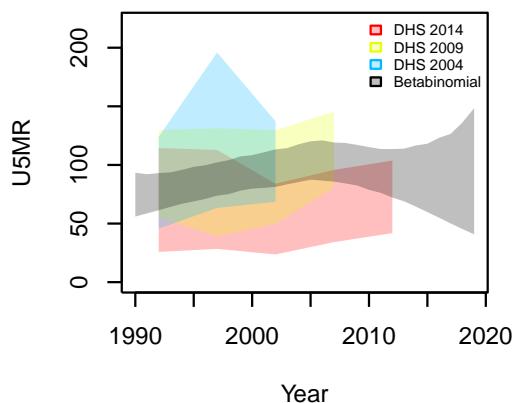
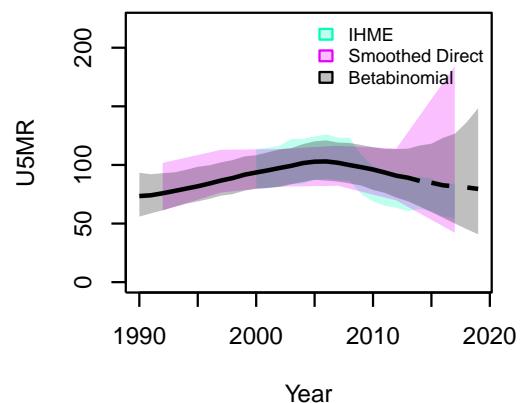
Table 3: Numbers of agemonths and deaths by age for DHS 2009.

Age	No. Deaths	No. Agemonths
0	414	9215
1-11	329	93216
12-23	70	96369
24-35	35	93867
36-47	24	90701
48-59	24	88189

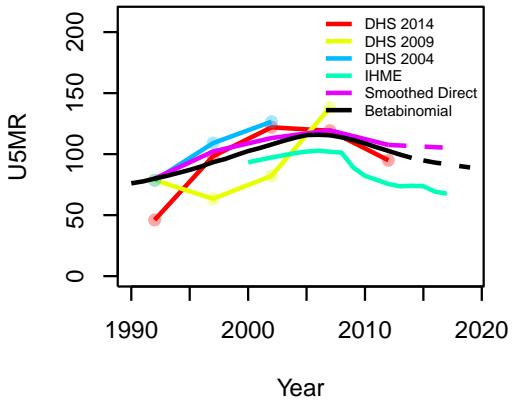
Table 4: Numbers of agemonths and deaths by age for DHS 2004.

3 Admin 1 Figures

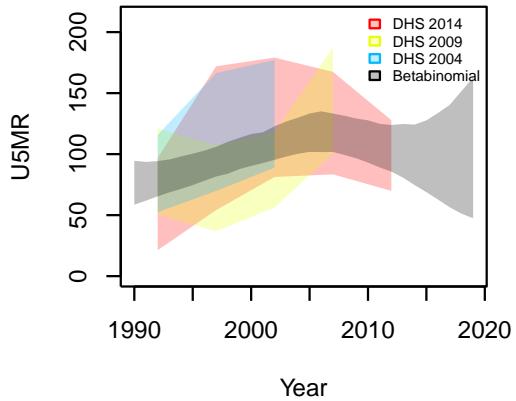
The following few pages have estimates by area across time with underlying data included. There are six admin areas per page. Colored lines with circular points and light grey uncertainty bands are 5-year survey-weighted estimates of U5MR for years 1990–1994 up to 2015–2019 depending on survey timing. For a survey that ends in the middle of a 5-year period, we plot the estimates at the mid-point of the years in that interval for which the survey provides data. Black lines and corresponding intervals represent posterior medians and 95% uncertainty intervals respectively for the betabinomial model.

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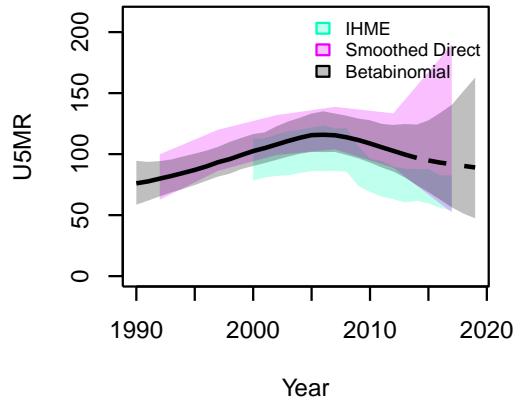
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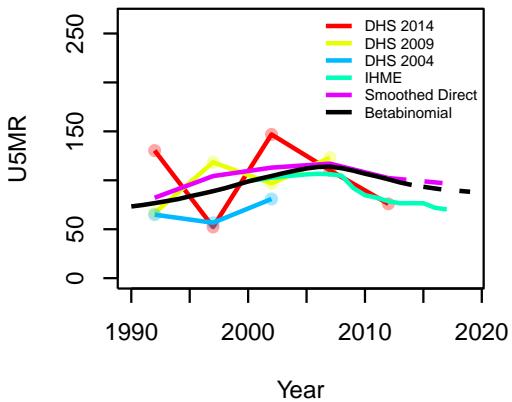
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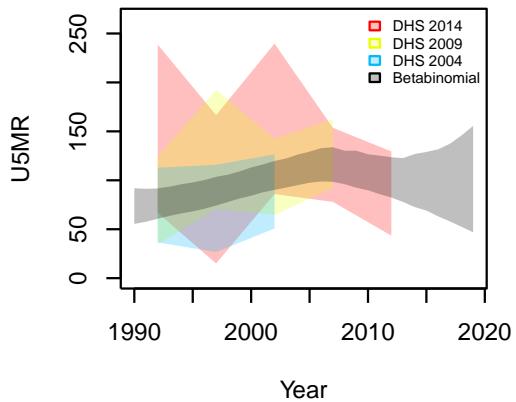
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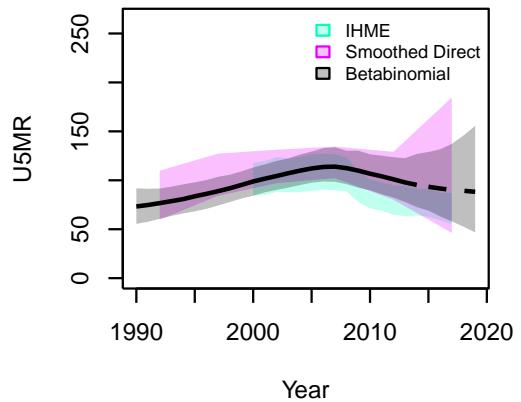
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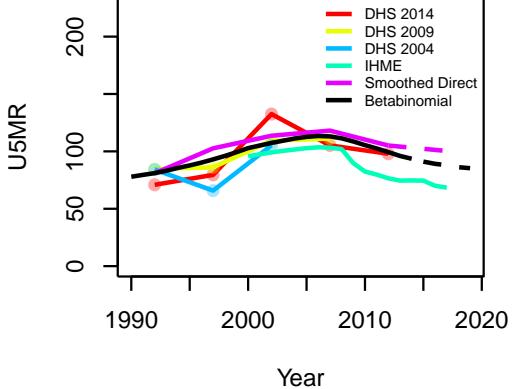
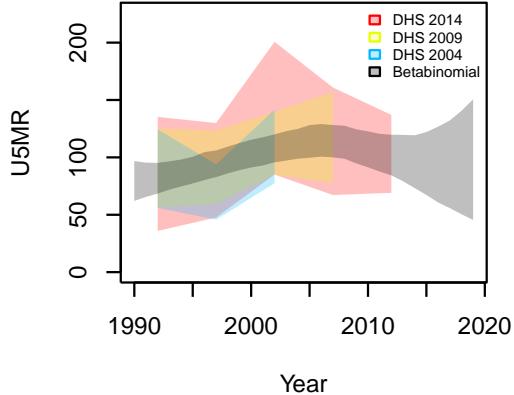
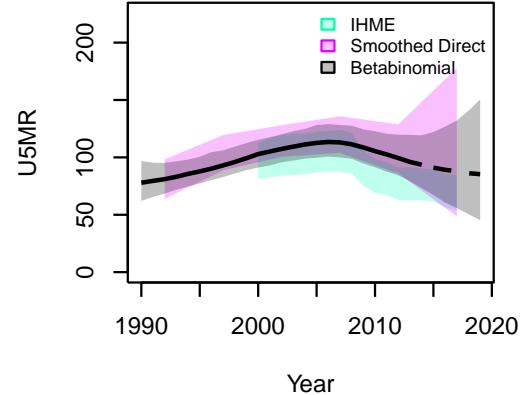
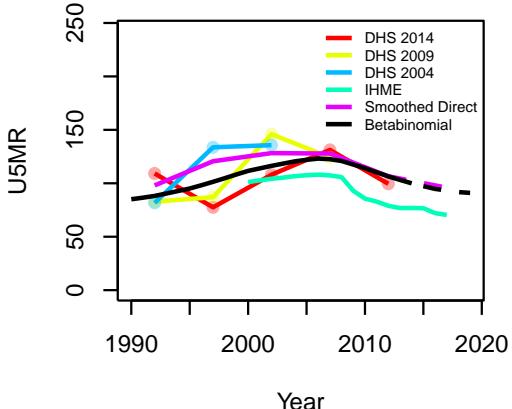
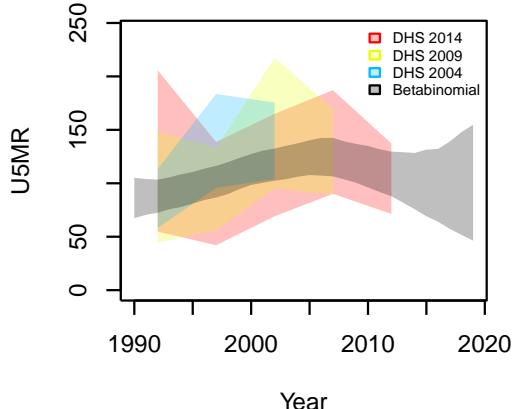
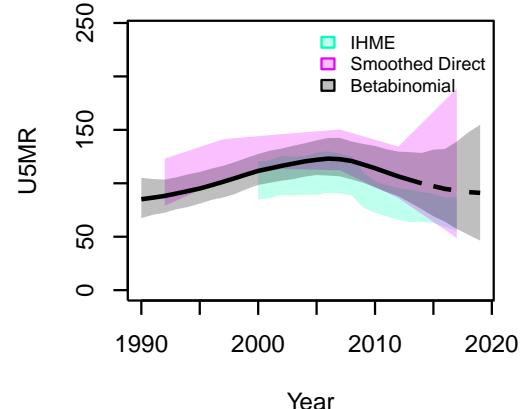


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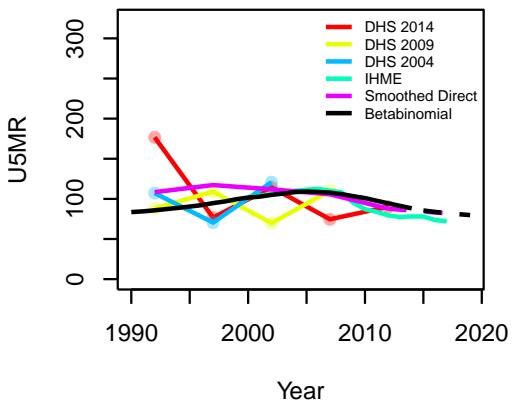


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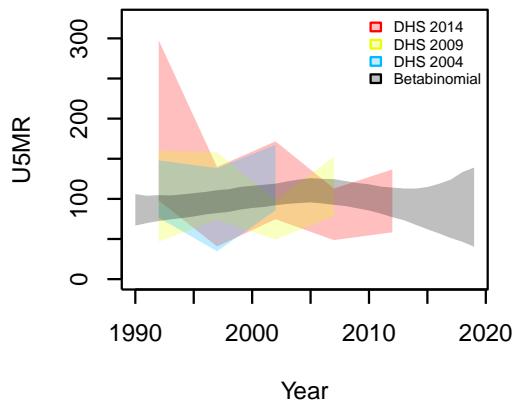


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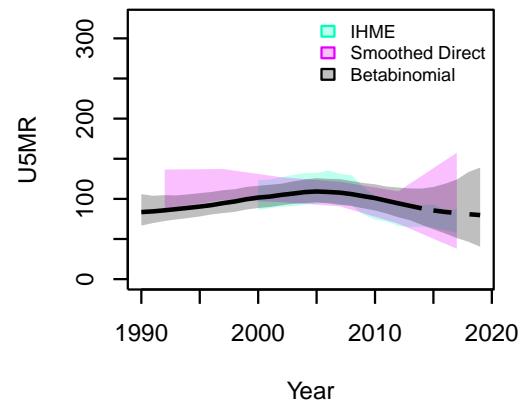
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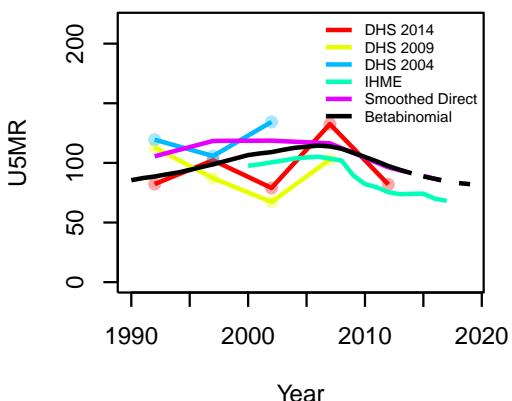
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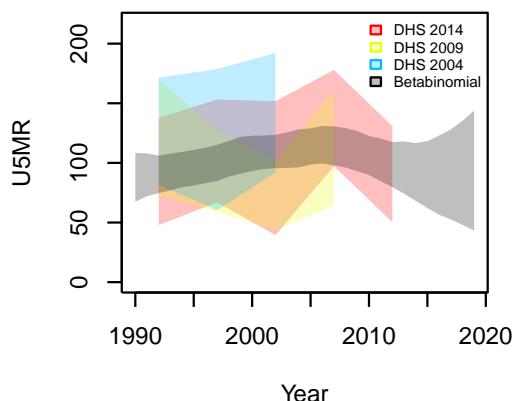
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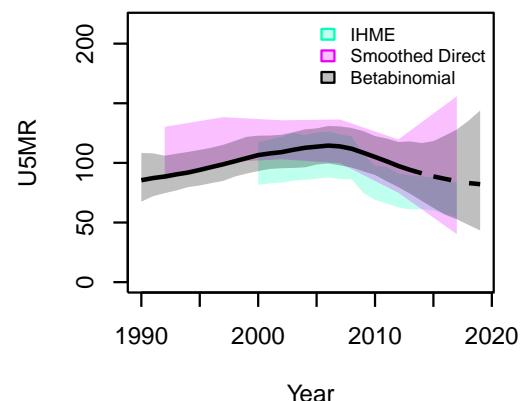
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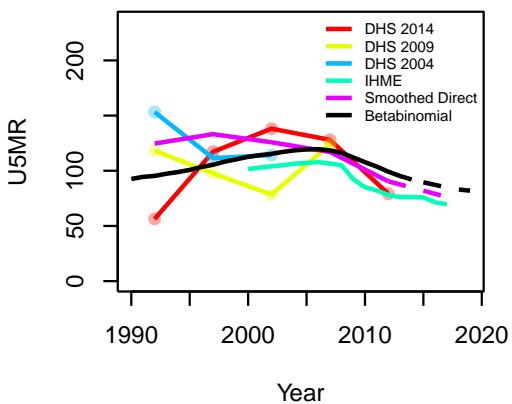
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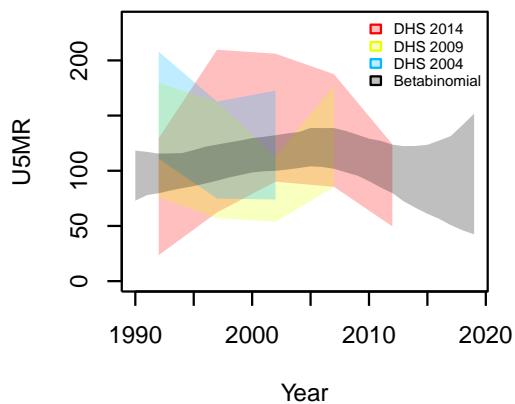
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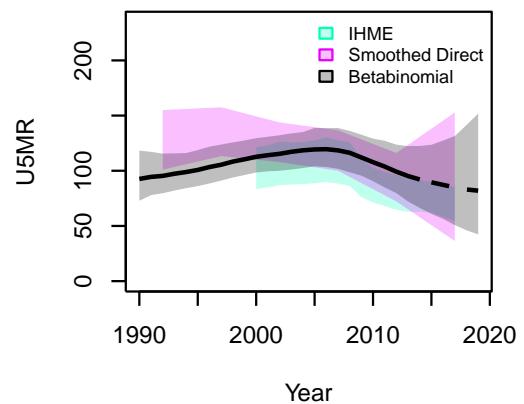
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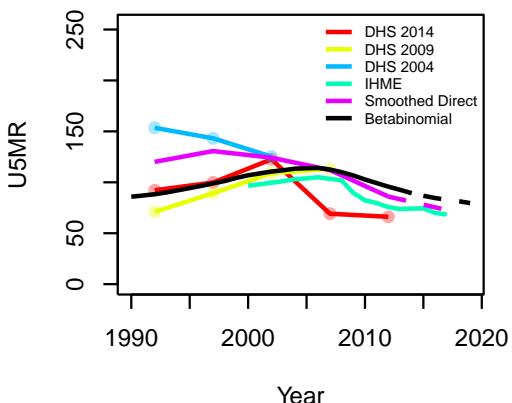
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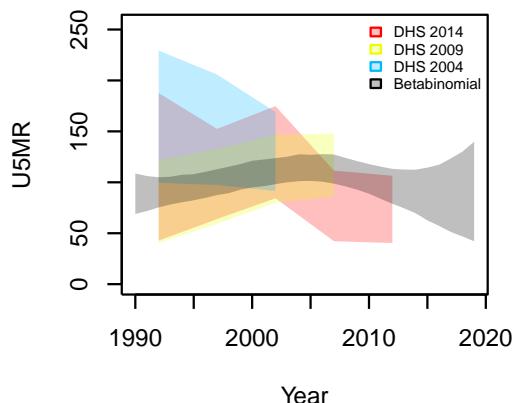
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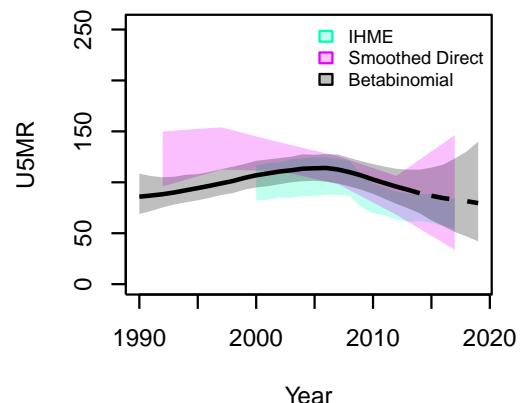
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Thaba-Tseka



Thaba-Tseka



4 National Figures and Results

	Median	Interval	Median- Bench	Interval
0	40.20	(35,45.5)	41.10	(35.9,46.6)
1-11	3.10	(2.6,3.6)	3.20	(2.7,3.6)
12-23	1.00	(0.8,1.1)	1.00	(0.8,1.2)
24-35	0.40	(0.3,0.5)	0.40	(0.3,0.5)
36-47	0.30	(0.2,0.4)	0.30	(0.2,0.4)
48-59	0.20	(0.1,0.2)	0.20	(0.1,0.2)

Table 5: Monthly hazards in terms of 1000 children by age band for national, unstratified model for Lesotho.

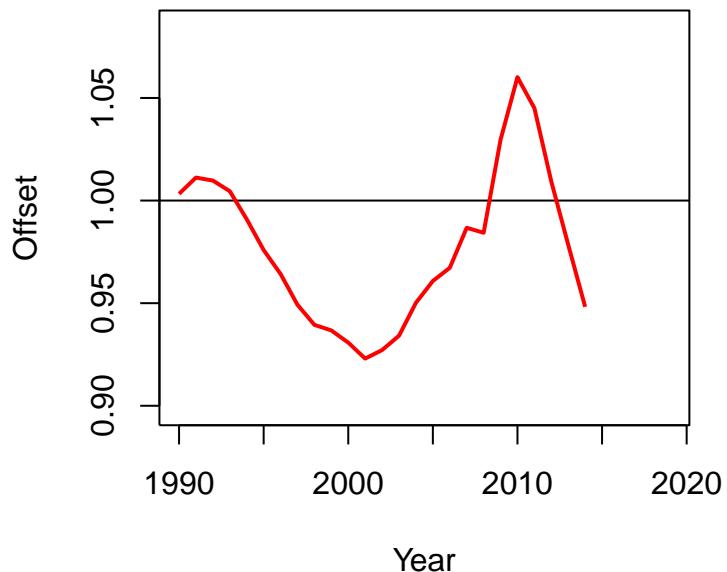


Figure 7: Benchmark offsets: $BENCH(t) = U5MR^*(t)/U5MR(t)$ where $U5MR^*(t)$ is modeled estimate and $U5MR(t)$ is UN-IGME estimate.

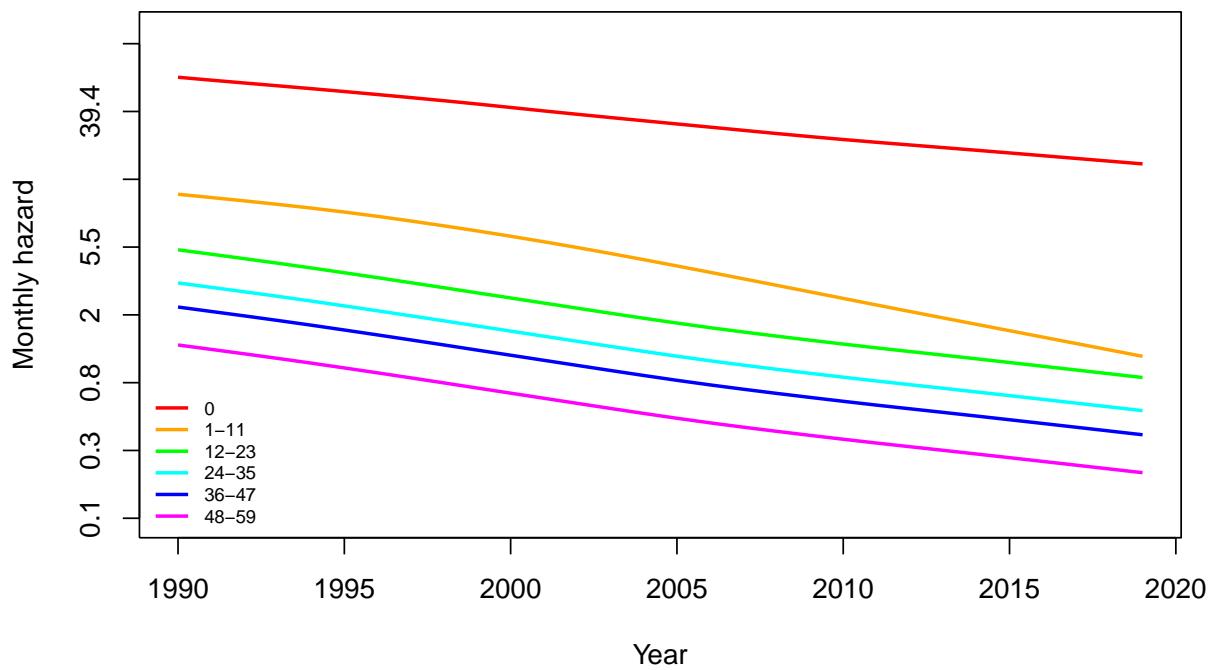


Figure 8: Monthly hazards of death in terms of U5MR (number deaths per 1000 children) by agebands.

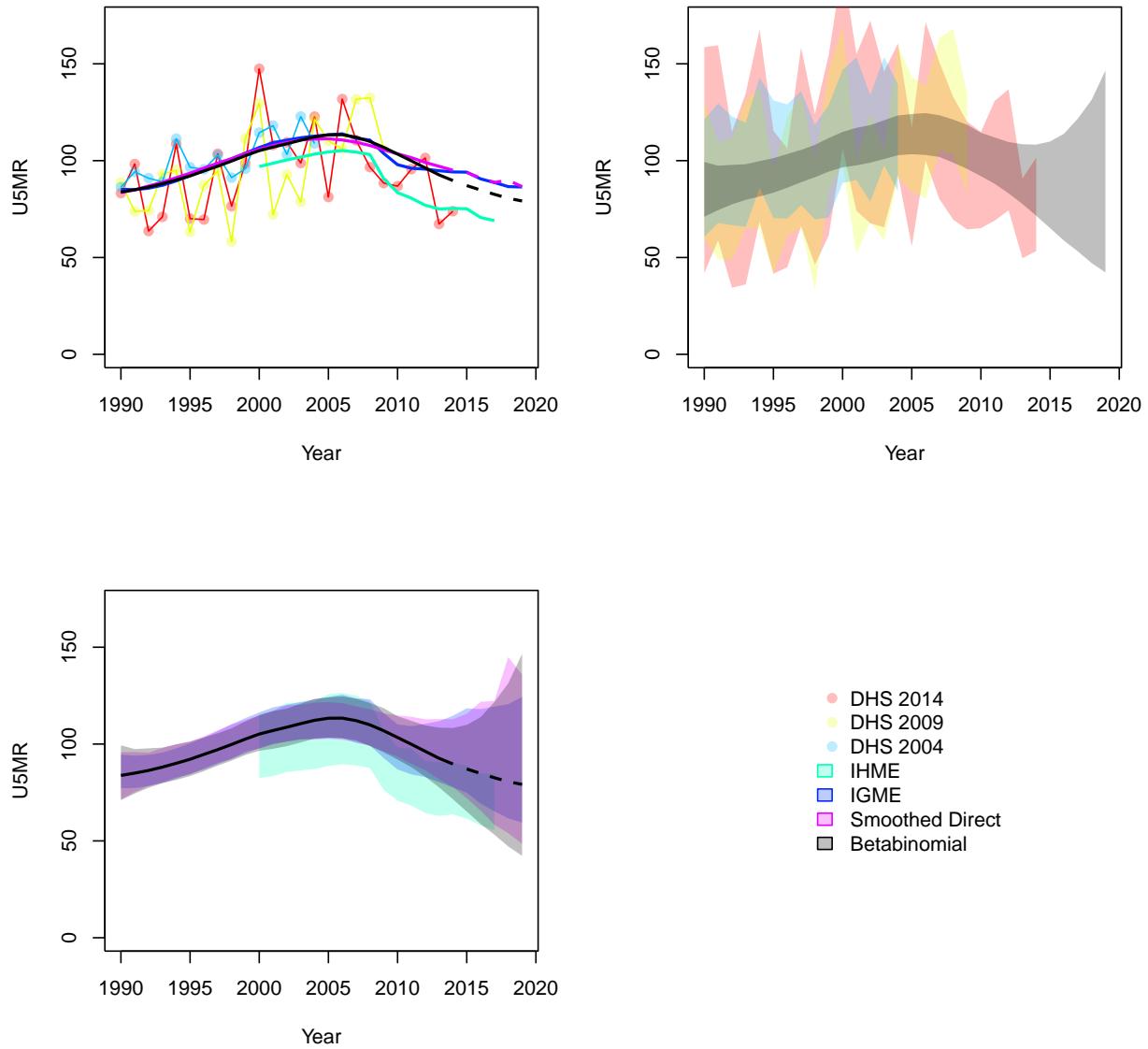


Figure 9: Benchmarked U5MR rates per 1000 live births. Top: DHS direct estimates with national trends from IHME GBD, UN-IGME, Smoothed Direct and Betabinomial estimates. Middle: 95% uncertainty intervals for DHS data. Bottom: IHME GBD, UN-IGME, Smoothed Direct and Betabinomial estimates with for the unstratified model. 95% uncertainty intervals