**World**

Family: beta ( logit )

Formula: World$CFR2 ~ vml2 \* lw + Age65Older22 + PopulationDensity22 + TTs2 + GDP2 + GHSI2 + WGI2 + Obesity\_rate22 + scale(SI) + (1 | location) + (1 | lw)

Data: World

AIC BIC logLik deviance df.resid

-107555.7 -107453.4 53792.9 -107585.7 6765

Random effects:

Conditional model:

Groups Name Variance Std.Dev.

location (Intercept) 0.31186 0.5584

lw (Intercept) 0.05788 0.2406

Number of obs: 6780, groups: location, 106; lw, 82

Dispersion parameter for beta family (): 2.62e+04

Conditional model:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -8.650202 0.235066 -36.80 < 0.0000000000000002 \*\*\*

vml2 -1.347962 0.412931 -3.26 0.0011 \*\*

lw 0.005672 0.056856 0.10 0.9205

Age65Older22 0.172621 0.082457 2.09 0.0363 \*

PopulationDensity22 -0.111078 0.055642 -2.00 0.0459 \*

TTs2 0.020273 0.010832 1.87 0.0613 .

GDP2 -0.302242 0.075478 -4.00 0.0000622 \*\*\*

GHSI2 0.207349 0.086745 2.39 0.0168 \*

WGI2 0.074161 0.080679 0.92 0.3580

Obesity\_rate22 0.156369 0.066765 2.34 0.0192 \*

scale(SI) -0.179847 0.008381 -21.46 < 0.0000000000000002 \*\*\*

vml2:lw 0.265562 0.093715 2.83 0.0046 \*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

**Top20 Countries**

Family: beta ( logit )

Formula: Top20CFinal$CFR2 ~ vml2 \* lw + Age65Older22 + PopulationDensity22 + TTs2 + GDP2 + GHSI2 + WGI2 + Obesity\_rate22 + scale(SI) + (1 | location) + (1 | lw)

Data: Top20CFinal

AIC BIC logLik deviance df.resid

-21626.4 -21548.6 10828.2 -21656.4 1314

Random effects:

Conditional model:

Groups Name Variance Std.Dev.

location (Intercept) 0.1966 0.4433

lw (Intercept) 0.3829 0.6188

Number of obs: 1329, groups: location, 19; lw, 81

Dispersion parameter for beta family (): 3.93e+04

Conditional model:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -6.05560 0.54116 -11.190 < 0.0000000000000002 \*\*\*

vml2 0.83702 0.89004 0.940 0.346999

lw -0.88036 0.12643 -6.963 0.00000000000333 \*\*\*

Age65Older22 0.87584 0.22098 3.964 0.00007385084597 \*\*\*

PopulationDensity22 -0.20525 0.06007 -3.417 0.000633 \*\*\*

TTs2 -0.03710 0.01625 -2.283 0.022451 \*

GDP2 -0.09943 0.10008 -0.994 0.320460

GHSI2 0.10795 0.15716 0.687 0.492184

WGI2 -0.17324 0.20082 -0.863 0.388342

Obesity\_rate22 0.01499 0.21342 0.070 0.944010

scale(SI) 0.03164 0.01797 1.761 0.078292 .

vml2:lw -0.14393 0.20941 -0.687 0.491880

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

**Rest of the world**

Family: beta ( logit )

Formula: OtherCFinal$CFR2 ~ vml2 \* lw + Age65Older22 + PopulationDensity22 + TTs2 + GDP2 + GHSI2 + WGI2 + Obesity\_rate22 + scale(SI) + (1 | location) + (1 | lw)

Data: OtherCFinal

AIC BIC logLik deviance df.resid

-85907.6 -85808.8 42968.8 -85937.6 5361

Random effects:

Conditional model:

Groups Name Variance Std.Dev.

location (Intercept) 0.27751 0.5268

lw (Intercept) 0.03108 0.1763

Number of obs: 5376, groups: location, 86; lw, 82

Dispersion parameter for beta family (): 3.17e+04

Conditional model:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -8.365900 0.243980 -34.29 < 0.0000000000000002 \*\*\*

vml2 -1.202573 0.533550 -2.25 0.024202 \*

lw -0.065047 0.056513 -1.15 0.249726

Age65Older22 0.058155 0.088817 0.65 0.512618

PopulationDensity22 0.162658 0.247751 0.66 0.511479

TTs2 0.094148 0.008653 10.88 < 0.0000000000000002 \*\*\*

GDP2 -0.410719 0.121346 -3.38 0.000713 \*\*\*

GHSI2 0.260876 0.097137 2.69 0.007239 \*\*

WGI2 0.074193 0.085114 0.87 0.383379

Obesity\_rate22 0.248499 0.070774 3.51 0.000446 \*\*\*

scale(SI) -0.151662 0.008523 -17.79 < 0.0000000000000002 \*\*\*

vml2:lw 0.241173 0.121107 1.99 0.046437 \*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1