Generalized least squares fit by REML

Model: CFR ~ Vaccinationph \* Weeks + Age65Older + PopulationDensity + TotalTestpt + GHSI + GDP + WGI + Obesity\_rate

Data: ModelData2

AIC BIC logLik

-13064.98 -12794.89 6579.491

Uninitialized correlation structure of class corSymm

Variance function:

Structure: Different standard deviations per stratum

Formula: ~1 | Weeks

Parameter estimates:

60 55 56 58 73 61 62 63 64 65 66 67 68 69 70 71 59

1.0000000 0.8520128 0.9091823 0.8702846 0.9329714 1.0133795 1.0011623 0.9850481 0.9691088 0.9694263 0.9720652 0.9405532 0.9436934 0.9557871 0.9426677 0.9561650 1.0361692

74 75 76 77 72 52 53 54 57 83 78 79 80 81 82 84 50

0.9293389 0.9315626 0.9154759 0.9397330 0.9168313 0.9749547 1.0019020 0.8820590 0.8747517 0.7631619 0.9345909 0.9274922 0.9266102 0.8883774 0.9057178 0.7424874 0.3334779

51 49

0.5382132 0.6931225

Coefficients:

Value Std.Error t-value p-value

(Intercept) -0.0025599873 0.003825139 -0.669253 0.5034

Vaccinationph -0.0004453560 0.000108270 -4.113394 0.0000

Weeks 0.0001430282 0.000046062 3.105135 0.0019

Age65Older 0.0000596360 0.000064451 0.925294 0.3549

PopulationDensity 0.0000005838 0.000000405 1.443053 0.1491

TotalTestpt -0.0000008829 0.000000315 -2.806202 0.0051

GHSI 0.0002253598 0.000029944 7.526041 0.0000

GDP -0.0000002900 0.000000020 -14.488127 0.0000

WGI 0.0009280716 0.000428475 2.165990 0.0304

Obesity\_rate 0.0005351612 0.000040955 13.067081 0.0000

Vaccinationph:Weeks 0.0000046447 0.000001361 3.413247 0.0007

Correlation:

(Intr) Vccntn Weeks Ag65Ol PpltnD TtlTst GHSI GDP WGI Obsty\_

Vaccinationph -0.114

Weeks -0.927 0.138

Age65Older -0.090 0.048 0.054

PopulationDensity -0.141 -0.034 0.063 0.000

TotalTestpt -0.049 -0.127 0.064 -0.032 -0.027

GHSI -0.370 0.000 0.100 -0.339 0.084 0.007

GDP -0.098 -0.079 0.229 -0.040 -0.374 -0.139 -0.298

WGI 0.062 -0.004 0.093 -0.546 0.112 -0.020 -0.157 0.028

Obesity\_rate -0.377 -0.112 0.232 0.038 0.392 -0.008 0.026 -0.299 -0.005

Vaccinationph:Weeks 0.195 -0.992 -0.226 -0.052 0.023 0.081 -0.009 0.049 -0.007 0.078

Standardized residuals:

Min Q1 Med Q3 Max

-1.6851750 -0.5552464 -0.1519669 0.3597211 5.1999503

Residual standard error: 0.01469645

Degrees of freedom: 2325 total; 2314 residual