**Model Specification and Results**

**MPlus INPUT/OUTPUT**

INPUT INSTRUCTIONS

 TITLE: Certification Analysis Falls with Magnet Status as Control;

 DATA: FILE IS FallsAnalysis\_MV.dat;

 VARIABLE:

 NAMES ARE UnitID HospID UnitTypR MagStat Metro xBedCat xOwner RNHrs

 NonRNHrs AgcyHrs pctBSN RNHrsC NonRNHrC AgcyHrsC RN\_BSN\_C

 Cert\_0 Cert\_1 Cert\_2 Cert\_3 Cert\_4 Cert\_5 Cert\_6

 Year\_0 Year\_1 Year\_2 Year\_3 Year\_4 Year\_5 Year\_6

 TFalls\_0 TFalls\_1 TFalls\_2 TFalls\_3 TFalls\_4 TFalls\_5 TFalls\_6

 IFalls\_0 IFalls\_1 IFalls\_2 IFalls\_3 IFalls\_4 IFalls\_5 IFalls\_6

 Risk\_0 Risk\_1 Risk\_2 Risk\_3 Risk\_4 Risk\_5 Risk\_6

 Prev\_0 Prev\_1 Prev\_2 Prev\_3 Prev\_4 Prev\_5 Prev\_6

 TFRate\_0 TFRate\_1 TFRate\_2 TFRate\_3 TFRate\_4 TFRate\_5 TFRate\_6

 IFRate\_0 IFRate\_1 IFRate\_2 IFRate\_3 IFRate\_4 IFRate\_5 IFRate\_6

 RiskRt\_0 RiskRt\_1 RiskRt\_2 RiskRt\_3 RiskRt\_4 RiskRt\_5 RiskRt\_6

 PrevRt\_0 PrevRt\_1 PrevRt\_2 PrevRt\_3 PrevRt\_4 PrevRt\_5 PrevRt\_6;

 USEVAR =

 TFRate\_0 TFRate\_1 TFRate\_2 TFRate\_3 TFRate\_4 TFRate\_5 TFRate\_6

 Cert\_0 Cert\_1 Cert\_2 Cert\_3 Cert\_4 Cert\_5 Cert\_6

 RNHrsC NonRNHrC AgcyHrsC RN\_BSN\_C UnitTypR

 xBedCat xOwner MagStat Metro;

 WITHIN = RNHrsC NonRNHrC AgcyHrsC RN\_BSN\_C UnitTypR;

 BETWEEN = xBedCat xOwner MagStat Metro;

 CLUSTER = HospID;

 MISSING ARE ALL (-99);

 ANALYSIS:

 TYPE=TWOLEVEL ;

 MODEL:

 !Unit-level model with unit-specific covariates as controls;

 %WITHIN%

 iw1 sw1 | Cert\_0@0 Cert\_1@1 Cert\_2@2 Cert\_3@3 Cert\_4@4 Cert\_5@5 Cert\_6@6;

 Cert\_0 - Cert\_6 (0);

 iw2 sw2 | TFRate\_0@0 TFRate\_1@1 TFRate\_2@2 TFRate\_3@3 TFRate\_4@4 TFRate\_5@5 TFRate\_6@6;

 TFRate\_0 - TFRate\_6 (1);

 IW1 SW1 ON RNHrsC NonRNHrC AgcyHrsC RN\_BSN\_C UnitTypR;

 IW2 SW2 ON RNHrsC NonRNHrC AgcyHrsC RN\_BSN\_C UnitTypR;

 !Hospital-level model with Magnet status as random variable;

 %BETWEEN%

 ib1 sb1 | Cert\_0@0 Cert\_1@1 Cert\_2@2 Cert\_3@3 Cert\_4@4 Cert\_5@5 Cert\_6@6;

 Cert\_0 - Cert\_6 (2);

 ib2 sb2 | TFRate\_0@0 TFRate\_1@1 TFRate\_2@2 TFRate\_3@3 TFRate\_4@4 TFRate\_5@5 TFRate\_6@6;

 TFRate\_0 - TFRate\_6 (3);

 IB1 SB1 ON xBedCat xOwner MagStat Metro;

 IB2 SB2 ON xBedCat xOwner MagStat Metro;

 OUTPUT: STDYX ;

Certification Analysis Falls with Magnet Status as Control;

SUMMARY OF ANALYSIS

Number of groups 1

Number of observations 7434

Number of dependent variables 14

Number of independent variables 9

Number of continuous latent variables 8

Observed dependent variables

 Continuous

 TFRATE\_0 TFRATE\_1 TFRATE\_2 TFRATE\_3 TFRATE\_4 TFRATE\_5

 TFRATE\_6 CERT\_0 CERT\_1 CERT\_2 CERT\_3 CERT\_4

 CERT\_5 CERT\_6

Observed independent variables

 RNHRSC NONRNHRC AGCYHRSC RN\_BSN\_C UNITTYPR XBEDCAT

 XOWNER MAGSTAT METRO

Continuous latent variables

 IW1 SW1 IW2 SW2 IB1 SB1

 IB2 SB2

Variables with special functions

 Cluster variable HOSPID

 Within variables

 RNHRSC NONRNHRC AGCYHRSC RN\_BSN\_C UNITTYPR

 Between variables

 XBEDCAT XOWNER MAGSTAT METRO

Estimator MLR

Information matrix OBSERVED

Maximum number of iterations 100

Convergence criterion 0.100D-05

Maximum number of EM iterations 500

Convergence criteria for the EM algorithm

 Loglikelihood change 0.100D-02

 Relative loglikelihood change 0.100D-05

 Derivative 0.100D-03

Minimum variance 0.100D-03

Maximum number of steepest descent iterations 20

Maximum number of iterations for H1 2000

Convergence criterion for H1 0.100D-03

Optimization algorithm EMA

Input data file(s)

 FallsAnalysis\_MV.dat

Input data format FREE

SUMMARY OF DATA

 Number of missing data patterns 479

 Number of clusters 891

 Average cluster size 8.343

 Estimated Intraclass Correlations for the Y Variables

 Intraclass Intraclass Intraclass

 Variable Correlation Variable Correlation Variable Correlation

 TFRATE\_0 0.114 TFRATE\_1 0.118 TFRATE\_2 0.128

 TFRATE\_3 0.103 TFRATE\_4 0.185 TFRATE\_5 0.155

 TFRATE\_6 0.163 CERT\_0 0.485 CERT\_1 0.414

 CERT\_2 0.393 CERT\_3 0.393 CERT\_4 0.456

 CERT\_5 0.395 CERT\_6 0.392

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

 PROPORTION OF DATA PRESENT

 Covariance Coverage

 TFRATE\_0 TFRATE\_1 TFRATE\_2 TFRATE\_3 TFRATE\_4

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 TFRATE\_0 0.414

 TFRATE\_1 0.404 0.546

 TFRATE\_2 0.392 0.528 0.655

 TFRATE\_3 0.380 0.506 0.619 0.710

 TFRATE\_4 0.359 0.473 0.579 0.663 0.760

 TFRATE\_5 0.339 0.445 0.544 0.616 0.702

 TFRATE\_6 0.325 0.424 0.515 0.578 0.654

 CERT\_0 0.334 0.330 0.320 0.311 0.296

 CERT\_1 0.305 0.421 0.413 0.395 0.368

 CERT\_2 0.296 0.416 0.525 0.503 0.471

 CERT\_3 0.277 0.380 0.478 0.547 0.517

 CERT\_4 0.250 0.345 0.431 0.499 0.580

 CERT\_5 0.239 0.322 0.401 0.462 0.539

 CERT\_6 0.229 0.309 0.378 0.436 0.505

 RNHRSC 0.414 0.546 0.655 0.710 0.760

 NONRNHRC 0.414 0.546 0.655 0.710 0.760

 AGCYHRSC 0.414 0.546 0.655 0.710 0.760

 RN\_BSN\_C 0.414 0.546 0.655 0.710 0.760

 UNITTYPR 0.414 0.546 0.655 0.710 0.760

 XBEDCAT 0.414 0.546 0.655 0.710 0.760

 XOWNER 0.414 0.546 0.655 0.710 0.760

 MAGSTAT 0.414 0.546 0.655 0.710 0.760

 METRO 0.414 0.546 0.655 0.710 0.760

 Covariance Coverage

 TFRATE\_5 TFRATE\_6 CERT\_0 CERT\_1 CERT\_2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 TFRATE\_5 0.790

 TFRATE\_6 0.735 0.800

 CERT\_0 0.278 0.266 0.343

 CERT\_1 0.342 0.327 0.271 0.433

 CERT\_2 0.441 0.414 0.254 0.371 0.537

 CERT\_3 0.474 0.443 0.244 0.337 0.446

 CERT\_4 0.542 0.504 0.220 0.306 0.394

 CERT\_5 0.610 0.582 0.207 0.280 0.357

 CERT\_6 0.575 0.635 0.197 0.259 0.331

 RNHRSC 0.790 0.800 0.343 0.433 0.537

 NONRNHRC 0.790 0.800 0.343 0.433 0.537

 AGCYHRSC 0.790 0.800 0.343 0.433 0.537

 RN\_BSN\_C 0.790 0.800 0.343 0.433 0.537

 UNITTYPR 0.790 0.800 0.343 0.433 0.537

 XBEDCAT 0.790 0.800 0.343 0.433 0.537

 XOWNER 0.790 0.800 0.343 0.433 0.537

 MAGSTAT 0.790 0.800 0.343 0.433 0.537

 METRO 0.790 0.800 0.343 0.433 0.537

 Covariance Coverage

 CERT\_3 CERT\_4 CERT\_5 CERT\_6 RNHRSC

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 CERT\_3 0.556

 CERT\_4 0.468 0.589

 CERT\_5 0.418 0.497 0.620

 CERT\_6 0.386 0.450 0.540 0.639

 RNHRSC 0.556 0.589 0.620 0.639 1.000

 NONRNHRC 0.556 0.589 0.620 0.639 1.000

 AGCYHRSC 0.556 0.589 0.620 0.639 1.000

 RN\_BSN\_C 0.556 0.589 0.620 0.639 1.000

 UNITTYPR 0.556 0.589 0.620 0.639 1.000

 XBEDCAT 0.556 0.589 0.620 0.639 1.000

 XOWNER 0.556 0.589 0.620 0.639 1.000

 MAGSTAT 0.556 0.589 0.620 0.639 1.000

 METRO 0.556 0.589 0.620 0.639 1.000

 Covariance Coverage

 NONRNHRC AGCYHRSC RN\_BSN\_C UNITTYPR XBEDCAT

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 NONRNHRC 1.000

 AGCYHRSC 1.000 1.000

 RN\_BSN\_C 1.000 1.000 1.000

 UNITTYPR 1.000 1.000 1.000 1.000

 XBEDCAT 1.000 1.000 1.000 1.000 1.000

 XOWNER 1.000 1.000 1.000 1.000 1.000

 MAGSTAT 1.000 1.000 1.000 1.000 1.000

 METRO 1.000 1.000 1.000 1.000 1.000

 Covariance Coverage

 XOWNER MAGSTAT METRO

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 XOWNER 1.000

 MAGSTAT 1.000 1.000

 METRO 1.000 1.000 1.000

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 64

Loglikelihood

 H0 Value -162806.115

 H0 Scaling Correction Factor 4.076

 for MLR

 H1 Value -160921.044

 H1 Scaling Correction Factor 3.108

 for MLR

Information Criteria

 Akaike (AIC) 325740.229

 Bayesian (BIC) 326182.713

 Sample-Size Adjusted BIC 325979.335

 (n\* = (n + 2) / 24)

Chi-Square Test of Model Fit

 Value 1303.778\*

 Degrees of Freedom 286

 P-Value 0.0000

 Scaling Correction Factor 2.892

 for MLR

\* The chi-square value for MLM, MLMV, MLR, ULSMV, WLSM and WLSMV cannot be used

 for chi-square difference testing in the regular way. MLM, MLR and WLSM

 chi-square difference testing is described on the Mplus website. MLMV, WLSMV,

 and ULSMV difference testing is done using the DIFFTEST option.

RMSEA (Root Mean Square Error Of Approximation)

 Estimate 0.022

CFI/TLI

 CFI 0.939

 TLI 0.934

Chi-Square Test of Model Fit for the Baseline Model

 Value 16897.039

 Degrees of Freedom 308

 P-Value 0.0000

SRMR (Standardized Root Mean Square Residual)

 Value for Within 0.025

 Value for Between 0.049

MODEL RESULTS

 Two-Tailed

 Estimate S.E. Est./S.E. P-Value

Within Level

 IW1 |

 CERT\_0 1.000 0.000 999.000 999.000

 CERT\_1 1.000 0.000 999.000 999.000

 CERT\_2 1.000 0.000 999.000 999.000

 CERT\_3 1.000 0.000 999.000 999.000

 CERT\_4 1.000 0.000 999.000 999.000

 CERT\_5 1.000 0.000 999.000 999.000

 CERT\_6 1.000 0.000 999.000 999.000

 SW1 |

 CERT\_0 0.000 0.000 999.000 999.000

 CERT\_1 1.000 0.000 999.000 999.000

 CERT\_2 2.000 0.000 999.000 999.000

 CERT\_3 3.000 0.000 999.000 999.000

 CERT\_4 4.000 0.000 999.000 999.000

 CERT\_5 5.000 0.000 999.000 999.000

 CERT\_6 6.000 0.000 999.000 999.000

 IW2 |

 TFRATE\_0 1.000 0.000 999.000 999.000

 TFRATE\_1 1.000 0.000 999.000 999.000

 TFRATE\_2 1.000 0.000 999.000 999.000

 TFRATE\_3 1.000 0.000 999.000 999.000

 TFRATE\_4 1.000 0.000 999.000 999.000

 TFRATE\_5 1.000 0.000 999.000 999.000

 TFRATE\_6 1.000 0.000 999.000 999.000

 SW2 |

 TFRATE\_0 0.000 0.000 999.000 999.000

 TFRATE\_1 1.000 0.000 999.000 999.000

 TFRATE\_2 2.000 0.000 999.000 999.000

 TFRATE\_3 3.000 0.000 999.000 999.000

 TFRATE\_4 4.000 0.000 999.000 999.000

 TFRATE\_5 5.000 0.000 999.000 999.000

 TFRATE\_6 6.000 0.000 999.000 999.000

 IW1 ON

 RNHRSC 0.514 0.057 9.062 0.000

 NONRNHRC -0.216 0.185 -1.167 0.243

 AGCYHRSC -1.112 0.332 -3.345 0.001

 RN\_BSN\_C 0.037 0.015 2.400 0.016

 UNITTYPR 0.248 0.034 7.389 0.000

 SW1 ON

 RNHRSC 0.025 0.012 2.104 0.035

 NONRNHRC -0.005 0.040 -0.131 0.896

 AGCYHRSC 0.008 0.085 0.090 0.929

 RN\_BSN\_C -0.001 0.003 -0.322 0.747

 UNITTYPR 0.006 0.008 0.793 0.428

 IW2 ON

 RNHRSC -0.167 0.009 -18.965 0.000

 NONRNHRC 0.084 0.028 2.936 0.003

 AGCYHRSC 0.052 0.038 1.378 0.168

 RN\_BSN\_C 0.001 0.002 0.351 0.725

 UNITTYPR 0.129 0.009 14.242 0.000

 SW2 ON

 RNHRSC -0.002 0.002 -1.126 0.260

 NONRNHRC -0.007 0.005 -1.244 0.213

 AGCYHRSC 0.004 0.007 0.610 0.542

 RN\_BSN\_C 0.000 0.000 -1.218 0.223

 UNITTYPR -0.002 0.002 -1.572 0.116

 SW1 WITH

 IW1 -9.986 1.238 -8.065 0.000

 IW2 WITH

 IW1 0.252 0.300 0.839 0.402

 SW1 -0.015 0.075 -0.197 0.843

 SW2 WITH

 IW1 0.064 0.059 1.078 0.281

 SW1 -0.029 0.015 -1.992 0.046

 IW2 -0.221 0.023 -9.455 0.000

 Residual Variances

 TFRATE\_0 1.333 0.082 16.218 0.000

 TFRATE\_1 1.333 0.082 16.218 0.000

 TFRATE\_2 1.333 0.082 16.218 0.000

 TFRATE\_3 1.333 0.082 16.218 0.000

 TFRATE\_4 1.333 0.082 16.218 0.000

 TFRATE\_5 1.333 0.082 16.218 0.000

 TFRATE\_6 1.333 0.082 16.218 0.000

 CERT\_0 30.884 2.007 15.387 0.000

 CERT\_1 30.884 2.007 15.387 0.000

 CERT\_2 30.884 2.007 15.387 0.000

 CERT\_3 30.884 2.007 15.387 0.000

 CERT\_4 30.884 2.007 15.387 0.000

 CERT\_5 30.884 2.007 15.387 0.000

 CERT\_6 30.884 2.007 15.387 0.000

 IW1 92.960 6.996 13.287 0.000

 SW1 3.627 0.307 11.819 0.000

 IW2 2.550 0.194 13.145 0.000

 SW2 0.040 0.004 9.380 0.000

Between Level

 IB1 |

 CERT\_0 1.000 0.000 999.000 999.000

 CERT\_1 1.000 0.000 999.000 999.000

 CERT\_2 1.000 0.000 999.000 999.000

 CERT\_3 1.000 0.000 999.000 999.000

 CERT\_4 1.000 0.000 999.000 999.000

 CERT\_5 1.000 0.000 999.000 999.000

 CERT\_6 1.000 0.000 999.000 999.000

 SB1 |

 CERT\_0 0.000 0.000 999.000 999.000

 CERT\_1 1.000 0.000 999.000 999.000

 CERT\_2 2.000 0.000 999.000 999.000

 CERT\_3 3.000 0.000 999.000 999.000

 CERT\_4 4.000 0.000 999.000 999.000

 CERT\_5 5.000 0.000 999.000 999.000

 CERT\_6 6.000 0.000 999.000 999.000

 IB2 |

 TFRATE\_0 1.000 0.000 999.000 999.000

 TFRATE\_1 1.000 0.000 999.000 999.000

 TFRATE\_2 1.000 0.000 999.000 999.000

 TFRATE\_3 1.000 0.000 999.000 999.000

 TFRATE\_4 1.000 0.000 999.000 999.000

 TFRATE\_5 1.000 0.000 999.000 999.000

 TFRATE\_6 1.000 0.000 999.000 999.000

 SB2 |

 TFRATE\_0 0.000 0.000 999.000 999.000

 TFRATE\_1 1.000 0.000 999.000 999.000

 TFRATE\_2 2.000 0.000 999.000 999.000

 TFRATE\_3 3.000 0.000 999.000 999.000

 TFRATE\_4 4.000 0.000 999.000 999.000

 TFRATE\_5 5.000 0.000 999.000 999.000

 TFRATE\_6 6.000 0.000 999.000 999.000

 IB1 ON

 XBEDCAT 0.528 0.372 1.419 0.156

 XOWNER -0.125 0.504 -0.248 0.804

 MAGSTAT 3.845 1.051 3.660 0.000

 METRO -2.041 3.463 -0.589 0.556

 SB1 ON

 XBEDCAT -0.112 0.068 -1.647 0.100

 XOWNER -0.041 0.116 -0.356 0.721

 MAGSTAT 0.415 0.190 2.192 0.028

 METRO 0.524 0.649 0.808 0.419

 IB2 ON

 XBEDCAT -0.036 0.030 -1.204 0.229

 XOWNER -0.088 0.066 -1.326 0.185

 MAGSTAT -0.071 0.094 -0.760 0.447

 METRO -0.572 0.597 -0.958 0.338

 SB2 ON

 XBEDCAT 0.008 0.007 1.187 0.235

 XOWNER 0.003 0.013 0.265 0.791

 MAGSTAT 0.000 0.018 0.022 0.982

 METRO 0.063 0.099 0.639 0.523

 SB1 WITH

 IB1 -9.958 3.883 -2.564 0.010

 IB2 WITH

 IB1 0.392 0.403 0.972 0.331

 SB1 -0.154 0.087 -1.776 0.076

 SB2 WITH

 IB1 -0.127 0.073 -1.738 0.082

 SB1 -0.005 0.015 -0.352 0.725

 IB2 -0.078 0.017 -4.661 0.000

 Intercepts

 TFRATE\_0 0.000 0.000 999.000 999.000

 TFRATE\_1 0.000 0.000 999.000 999.000

 TFRATE\_2 0.000 0.000 999.000 999.000

 TFRATE\_3 0.000 0.000 999.000 999.000

 TFRATE\_4 0.000 0.000 999.000 999.000

 TFRATE\_5 0.000 0.000 999.000 999.000

 TFRATE\_6 0.000 0.000 999.000 999.000

 CERT\_0 0.000 0.000 999.000 999.000

 CERT\_1 0.000 0.000 999.000 999.000

 CERT\_2 0.000 0.000 999.000 999.000

 CERT\_3 0.000 0.000 999.000 999.000

 CERT\_4 0.000 0.000 999.000 999.000

 CERT\_5 0.000 0.000 999.000 999.000

 CERT\_6 0.000 0.000 999.000 999.000

 IB1 6.763 3.541 1.910 0.056

 SB1 0.422 0.679 0.622 0.534

 IB2 3.711 0.608 6.100 0.000

 SB2 -0.128 0.100 -1.282 0.200

 Residual Variances

 TFRATE\_0 0.127 0.033 3.863 0.000

 TFRATE\_1 0.127 0.033 3.863 0.000

 TFRATE\_2 0.127 0.033 3.863 0.000

 TFRATE\_3 0.127 0.033 3.863 0.000

 TFRATE\_4 0.127 0.033 3.863 0.000

 TFRATE\_5 0.127 0.033 3.863 0.000

 TFRATE\_6 0.127 0.033 3.863 0.000

 CERT\_0 14.136 3.328 4.248 0.000

 CERT\_1 14.136 3.328 4.248 0.000

 CERT\_2 14.136 3.328 4.248 0.000

 CERT\_3 14.136 3.328 4.248 0.000

 CERT\_4 14.136 3.328 4.248 0.000

 CERT\_5 14.136 3.328 4.248 0.000

 CERT\_6 14.136 3.328 4.248 0.000

 IB1 95.211 25.295 3.764 0.000

 SB1 2.521 0.718 3.509 0.000

 IB2 0.694 0.095 7.344 0.000

 SB2 0.027 0.008 3.349 0.001

STANDARDIZED MODEL RESULTS

STDYX Standardization

 Two-Tailed

 Estimate S.E. Est./S.E. P-Value

Within Level

 IW1 |

 CERT\_0 0.874 0.010 86.057 0.000

 CERT\_1 0.933 0.016 59.977 0.000

 CERT\_2 0.970 0.022 43.110 0.000

 CERT\_3 0.976 0.029 34.036 0.000

 CERT\_4 0.949 0.032 29.293 0.000

 CERT\_5 0.897 0.033 26.879 0.000

 CERT\_6 0.832 0.032 25.706 0.000

 SW1 |

 CERT\_0 0.000 0.000 999.000 999.000

 CERT\_1 0.178 0.007 26.616 0.000

 CERT\_2 0.370 0.015 24.442 0.000

 CERT\_3 0.558 0.024 23.338 0.000

 CERT\_4 0.724 0.031 23.340 0.000

 CERT\_5 0.855 0.035 24.356 0.000

 CERT\_6 0.951 0.036 26.228 0.000

 IW2 |

 TFRATE\_0 0.873 0.008 104.474 0.000

 TFRATE\_1 0.909 0.011 84.159 0.000

 TFRATE\_2 0.941 0.014 68.112 0.000

 TFRATE\_3 0.967 0.017 56.524 0.000

 TFRATE\_4 0.988 0.020 48.174 0.000

 TFRATE\_5 0.999 0.024 41.998 0.000

 TFRATE\_6 1.002 0.027 37.270 0.000

 SW2 |

 TFRATE\_0 0.000 0.000 999.000 999.000

 TFRATE\_1 0.088 0.005 18.468 0.000

 TFRATE\_2 0.182 0.010 17.943 0.000

 TFRATE\_3 0.281 0.016 17.619 0.000

 TFRATE\_4 0.383 0.022 17.515 0.000

 TFRATE\_5 0.484 0.027 17.647 0.000

 TFRATE\_6 0.583 0.032 18.030 0.000

 IW1 ON

 RNHRSC 0.229 0.024 9.416 0.000

 NONRNHRC -0.036 0.031 -1.174 0.240

 AGCYHRSC -0.105 0.031 -3.430 0.001

 RN\_BSN\_C 0.073 0.030 2.392 0.017

 UNITTYPR 0.156 0.021 7.327 0.000

 SW1 ON

 RNHRSC 0.058 0.028 2.067 0.039

 NONRNHRC -0.005 0.035 -0.131 0.896

 AGCYHRSC 0.004 0.042 0.090 0.928

 RN\_BSN\_C -0.011 0.033 -0.322 0.747

 UNITTYPR 0.021 0.026 0.792 0.428

 IW2 ON

 RNHRSC -0.358 0.022 -16.669 0.000

 NONRNHRC 0.067 0.023 2.935 0.003

 AGCYHRSC 0.024 0.017 1.374 0.169

 RN\_BSN\_C 0.007 0.019 0.352 0.725

 UNITTYPR 0.392 0.023 16.681 0.000

 SW2 ON

 RNHRSC -0.040 0.035 -1.132 0.258

 NONRNHRC -0.056 0.046 -1.238 0.216

 AGCYHRSC 0.021 0.034 0.613 0.540

 RN\_BSN\_C -0.041 0.034 -1.221 0.222

 UNITTYPR -0.076 0.048 -1.573 0.116

 SW1 WITH

 IW1 -0.544 0.034 -16.218 0.000

 IW2 WITH

 IW1 0.016 0.020 0.838 0.402

 SW1 -0.005 0.025 -0.197 0.843

 SW2 WITH

 IW1 0.033 0.030 1.083 0.279

 SW1 -0.077 0.038 -2.005 0.045

 IW2 -0.692 0.029 -23.833 0.000

 Residual Variances

 TFRATE\_0 0.237 0.015 16.230 0.000

 TFRATE\_1 0.257 0.015 17.255 0.000

 TFRATE\_2 0.275 0.015 18.213 0.000

 TFRATE\_3 0.291 0.015 18.935 0.000

 TFRATE\_4 0.303 0.016 19.205 0.000

 TFRATE\_5 0.310 0.016 18.864 0.000

 TFRATE\_6 0.312 0.017 17.918 0.000

 CERT\_0 0.236 0.018 13.266 0.000

 CERT\_1 0.268 0.018 14.649 0.000

 CERT\_2 0.290 0.018 16.095 0.000

 CERT\_3 0.294 0.017 17.160 0.000

 CERT\_4 0.278 0.016 17.500 0.000

 CERT\_5 0.248 0.014 17.151 0.000

 CERT\_6 0.213 0.013 16.390 0.000

 IW1 0.928 0.011 84.536 0.000

 SW1 0.997 0.003 373.414 0.000

 IW2 0.594 0.024 25.182 0.000

 SW2 0.989 0.008 118.107 0.000

Between Level

 IB1 |

 CERT\_0 0.936 0.016 59.197 0.000

 CERT\_1 1.015 0.032 32.089 0.000

 CERT\_2 1.083 0.058 18.715 0.000

 CERT\_3 1.128 0.089 12.609 0.000

 CERT\_4 1.139 0.120 9.529 0.000

 CERT\_5 1.113 0.141 7.910 0.000

 CERT\_6 1.057 0.149 7.072 0.000

 SB1 |

 CERT\_0 0.000 0.000 999.000 999.000

 CERT\_1 0.163 0.017 9.399 0.000

 CERT\_2 0.348 0.040 8.785 0.000

 CERT\_3 0.543 0.066 8.235 0.000

 CERT\_4 0.732 0.094 7.812 0.000

 CERT\_5 0.894 0.118 7.592 0.000

 CERT\_6 1.019 0.134 7.616 0.000

 IB2 |

 TFRATE\_0 0.921 0.022 41.724 0.000

 TFRATE\_1 1.005 0.030 33.491 0.000

 TFRATE\_2 1.066 0.049 21.566 0.000

 TFRATE\_3 1.089 0.076 14.230 0.000

 TFRATE\_4 1.064 0.105 10.111 0.000

 TFRATE\_5 1.000 0.127 7.879 0.000

 TFRATE\_6 0.916 0.137 6.680 0.000

 SB2 |

 TFRATE\_0 0.000 0.000 999.000 999.000

 TFRATE\_1 0.195 0.028 6.945 0.000

 TFRATE\_2 0.415 0.058 7.146 0.000

 TFRATE\_3 0.635 0.080 7.965 0.000

 TFRATE\_4 0.827 0.087 9.542 0.000

 TFRATE\_5 0.973 0.083 11.767 0.000

 TFRATE\_6 1.069 0.076 14.103 0.000

 IB1 ON

 XBEDCAT 0.080 0.055 1.460 0.144

 XOWNER -0.011 0.044 -0.247 0.805

 MAGSTAT 0.179 0.037 4.764 0.000

 METRO -0.034 0.059 -0.583 0.560

 SB1 ON

 XBEDCAT -0.106 0.061 -1.741 0.082

 XOWNER -0.022 0.061 -0.366 0.714

 MAGSTAT 0.120 0.065 1.845 0.065

 METRO 0.055 0.068 0.803 0.422

 IB2 ON

 XBEDCAT -0.065 0.054 -1.199 0.230

 XOWNER -0.090 0.068 -1.319 0.187

 MAGSTAT -0.039 0.051 -0.765 0.444

 METRO -0.114 0.117 -0.970 0.332

 SB2 ON

 XBEDCAT 0.071 0.066 1.080 0.280

 XOWNER 0.018 0.067 0.262 0.793

 MAGSTAT 0.001 0.050 0.022 0.982

 METRO 0.064 0.100 0.647 0.518

 SB1 WITH

 IB1 -0.643 0.105 -6.149 0.000

 IB2 WITH

 IB1 0.048 0.048 0.997 0.319

 SB1 -0.117 0.062 -1.870 0.062

 SB2 WITH

 IB1 -0.080 0.045 -1.760 0.078

 SB1 -0.020 0.056 -0.354 0.724

 IB2 -0.573 0.064 -8.976 0.000

 Intercepts

 TFRATE\_0 0.000 0.000 999.000 999.000

 TFRATE\_1 0.000 0.000 999.000 999.000

 TFRATE\_2 0.000 0.000 999.000 999.000

 TFRATE\_3 0.000 0.000 999.000 999.000

 TFRATE\_4 0.000 0.000 999.000 999.000

 TFRATE\_5 0.000 0.000 999.000 999.000

 TFRATE\_6 0.000 0.000 999.000 999.000

 CERT\_0 0.000 0.000 999.000 999.000

 CERT\_1 0.000 0.000 999.000 999.000

 CERT\_2 0.000 0.000 999.000 999.000

 CERT\_3 0.000 0.000 999.000 999.000

 CERT\_4 0.000 0.000 999.000 999.000

 CERT\_5 0.000 0.000 999.000 999.000

 CERT\_6 0.000 0.000 999.000 999.000

 IB1 0.677 0.383 1.768 0.077

 SB1 0.263 0.416 0.633 0.527

 IB2 4.385 0.705 6.215 0.000

 SB2 -0.777 0.618 -1.258 0.209

 Residual Variances

 TFRATE\_0 0.151 0.041 3.706 0.000

 TFRATE\_1 0.179 0.048 3.761 0.000

 TFRATE\_2 0.202 0.050 4.069 0.000

 TFRATE\_3 0.210 0.044 4.783 0.000

 TFRATE\_4 0.201 0.034 5.938 0.000

 TFRATE\_5 0.178 0.026 6.936 0.000

 TFRATE\_6 0.149 0.021 6.956 0.000

 CERT\_0 0.124 0.030 4.191 0.000

 CERT\_1 0.146 0.033 4.480 0.000

 CERT\_2 0.166 0.035 4.744 0.000

 CERT\_3 0.180 0.037 4.806 0.000

 CERT\_4 0.184 0.040 4.570 0.000

 CERT\_5 0.175 0.042 4.197 0.000

 CERT\_6 0.158 0.041 3.873 0.000

 IB1 0.954 0.016 57.915 0.000

 SB1 0.979 0.017 57.626 0.000

 IB2 0.969 0.034 28.615 0.000

 SB2 0.989 0.018 54.162 0.000

R-SQUARE

Within Level

 Observed Two-Tailed

 Variable Estimate S.E. Est./S.E. P-Value

 TFRATE\_0 0.763 0.015 52.237 0.000

 TFRATE\_1 0.743 0.015 50.009 0.000

 TFRATE\_2 0.725 0.015 48.055 0.000

 TFRATE\_3 0.709 0.015 46.184 0.000

 TFRATE\_4 0.697 0.016 44.177 0.000

 TFRATE\_5 0.690 0.016 41.913 0.000

 TFRATE\_6 0.688 0.017 39.491 0.000

 CERT\_0 0.764 0.018 43.029 0.000

 CERT\_1 0.732 0.018 39.977 0.000

 CERT\_2 0.710 0.018 39.434 0.000

 CERT\_3 0.706 0.017 41.298 0.000

 CERT\_4 0.722 0.016 45.481 0.000

 CERT\_5 0.752 0.014 51.912 0.000

 CERT\_6 0.787 0.013 60.482 0.000

 Latent Two-Tailed

 Variable Estimate S.E. Est./S.E. P-Value

 IW1 0.072 0.011 6.559 0.000

 SW1 0.003 0.003 1.156 0.248

 IW2 0.406 0.024 17.201 0.000

 SW2 0.011 0.008 1.325 0.185

Between Level

 Observed Two-Tailed

 Variable Estimate S.E. Est./S.E. P-Value

 TFRATE\_0 0.849 0.041 20.862 0.000

 TFRATE\_1 0.821 0.048 17.218 0.000

 TFRATE\_2 0.798 0.050 16.079 0.000

 TFRATE\_3 0.790 0.044 17.942 0.000

 TFRATE\_4 0.799 0.034 23.611 0.000

 TFRATE\_5 0.822 0.026 32.097 0.000

 TFRATE\_6 0.851 0.021 39.678 0.000

 CERT\_0 0.876 0.030 29.599 0.000

 CERT\_1 0.854 0.033 26.260 0.000

 CERT\_2 0.834 0.035 23.842 0.000

 CERT\_3 0.820 0.037 21.879 0.000

 CERT\_4 0.816 0.040 20.311 0.000

 CERT\_5 0.825 0.042 19.728 0.000

 CERT\_6 0.842 0.041 20.608 0.000

 Latent Two-Tailed

 Variable Estimate S.E. Est./S.E. P-Value

 IB1 0.046 0.016 2.820 0.005

 SB1 0.021 0.017 1.235 0.217

 IB2 0.031 0.034 0.919 0.358

 SB2 0.011 0.018 0.616 0.538

QUALITY OF NUMERICAL RESULTS

 Condition Number for the Information Matrix 0.422E-08

 (ratio of smallest to largest eigenvalue)

 Beginning Time: 09:29:49

 Ending Time: 09:32:19

 Elapsed Time: 00:02:30

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