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The Mixed Procedure

Model Information

Data Set WORK.SHEET1

Dependent Variable best\_vs\_autonomy

Covariance Structure Variance Components

Estimation Method REML

Residual Variance Method Profile

Fixed Effects SE Method Model-Based

Degrees of Freedom Method Containment

Class Level Information

Class Levels Values

subject 26 1 2 3 5 6 7 8 9 10 11 12 13 14

15 16 17 18 19 20 21 22 23 24

25 26 27

scenario 2 1 2

method 3 1 2 3

Dimensions

Covariance Parameters 4

Columns in X 12

Columns in Z 156

Subjects 1

Max Obs Per Subject 156

Number of Observations

Number of Observations Read 156

Number of Observations Used 156

Number of Observations Not Used 0

Iteration History

Iteration Evaluations -2 Res Log Like Criterion

0 1 -250.80166804

1 1 -279.17980194 0.00000000

Convergence criteria met.

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The Mixed Procedure

Covariance Parameter

Estimates

Cov Parm Estimate

subject 0.001423

subject\*scenario 0.001075

subject\*method 0.003260

Residual 0.003898

Fit Statistics

-2 Res Log Likelihood -279.2

AIC (smaller is better) -271.2

AICC (smaller is better) -270.9

BIC (smaller is better) -266.1

Type 3 Tests of Fixed Effects

Num Den

Effect DF DF F Value Pr > F

scenario 1 25 107.22 <.0001

method 2 50 206.84 <.0001

scenario\*method 2 50 3.09 0.0544

Least Squares Means

Standard

Effect scenario method Estimate Error DF t Value Pr > |t|

scenario 1 0.8010 0.01371 25 58.44 <.0001

scenario 2 0.9409 0.01371 25 68.65 <.0001

method 1 0.6845 0.01661 50 41.22 <.0001

method 2 0.8401 0.01661 50 50.59 <.0001

method 3 1.0881 0.01661 50 65.53 <.0001

scenario\*method 1 1 0.6290 0.01927 50 32.64 <.0001

scenario\*method 1 2 0.7542 0.01927 50 39.14 <.0001

scenario\*method 1 3 1.0197 0.01927 50 52.91 <.0001

scenario\*method 2 1 0.7401 0.01927 50 38.40 <.0001

scenario\*method 2 2 0.9260 0.01927 50 48.05 <.0001

scenario\*method 2 3 1.1566 0.01927 50 60.02 <.0001

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The Mixed Procedure

Model Information

Data Set WORK.SHEET1

Dependent Variable best\_vs\_autonomy

Covariance Structure Variance Components

Estimation Method REML

Residual Variance Method Profile

Fixed Effects SE Method Model-Based

Degrees of Freedom Method Containment

Class Level Information

Class Levels Values

subject 26 1 2 3 5 6 7 8 9 10 11 12 13 14

15 16 17 18 19 20 21 22 23 24

25 26 27

scenario 2 1 2

method 3 1 2 3

Dimensions

Covariance Parameters 4

Columns in X 6

Columns in Z 156

Subjects 1

Max Obs Per Subject 156

Number of Observations

Number of Observations Read 156

Number of Observations Used 156

Number of Observations Not Used 0

Iteration History

Iteration Evaluations -2 Res Log Like Criterion

0 1 -257.94586687

1 1 -284.61432572 0.00000000

Convergence criteria met.

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The Mixed Procedure

Covariance Parameter

Estimates

Cov Parm Estimate

subject 0.001476

subject\*scenario 0.000971

subject\*method 0.003103

Residual 0.004210

Fit Statistics

-2 Res Log Likelihood -284.6

AIC (smaller is better) -276.6

AICC (smaller is better) -276.3

BIC (smaller is better) -271.6

Type 3 Tests of Fixed Effects

Num Den

Effect DF DF F Value Pr > F

scenario 1 25 107.22 <.0001

method 2 50 206.84 <.0001

Least Squares Means

Standard

Effect scenario method Estimate Error DF t Value Pr > |t|

scenario 1 0.8010 0.01371 25 58.44 <.0001

scenario 2 0.9409 0.01371 25 68.65 <.0001

method 1 0.6845 0.01661 50 41.22 <.0001

method 2 0.8401 0.01661 50 50.59 <.0001

method 3 1.0881 0.01661 50 65.53 <.0001

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The Mixed Procedure

Model Information

Data Set WORK.SHEET1

Dependent Variable question\_answered

Covariance Structure Variance Components

Estimation Method REML

Residual Variance Method Profile

Fixed Effects SE Method Model-Based

Degrees of Freedom Method Containment

Class Level Information

Class Levels Values

subject 26 1 2 3 5 6 7 8 9 10 11 12 13 14

15 16 17 18 19 20 21 22 23 24

25 26 27

scenario 2 1 2

method 3 1 2 3

Dimensions

Covariance Parameters 4

Columns in X 12

Columns in Z 156

Subjects 1

Max Obs Per Subject 156

Number of Observations

Number of Observations Read 156

Number of Observations Used 156

Number of Observations Not Used 0

Iteration History

Iteration Evaluations -2 Res Log Like Criterion

0 1 62.13460646

1 1 -109.43458229 0.00000000

Convergence criteria met.

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The Mixed Procedure

Covariance Parameter

Estimates

Cov Parm Estimate

subject 0.05873

subject\*scenario 0.006951

subject\*method 0.002497

Residual 0.009596

Fit Statistics

-2 Res Log Likelihood -109.4

AIC (smaller is better) -101.4

AICC (smaller is better) -101.2

BIC (smaller is better) -96.4

Type 3 Tests of Fixed Effects

Num Den

Effect DF DF F Value Pr > F

scenario 1 25 0.00 0.9941

method 2 50 1.26 0.2915

scenario\*method 2 50 0.31 0.7322

Least Squares Means

Standard

Effect scenario method Estimate Error DF t Value Pr > |t|

scenario 1 0.4512 0.05178 25 8.71 <.0001

scenario 2 0.4510 0.05178 25 8.71 <.0001

method 1 0.4706 0.05170 50 9.10 <.0001

method 2 0.4331 0.05170 50 8.38 <.0001

method 3 0.4496 0.05170 50 8.70 <.0001

scenario\*method 1 1 0.4741 0.05469 50 8.67 <.0001

scenario\*method 1 2 0.4244 0.05469 50 7.76 <.0001

scenario\*method 1 3 0.4550 0.05469 50 8.32 <.0001

scenario\*method 2 1 0.4671 0.05469 50 8.54 <.0001

scenario\*method 2 2 0.4417 0.05469 50 8.08 <.0001

scenario\*method 2 3 0.4442 0.05469 50 8.12 <.0001

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The Mixed Procedure

Model Information

Data Set WORK.SHEET1

Dependent Variable avg\_delay

Covariance Structure Variance Components

Estimation Method REML

Residual Variance Method Profile

Fixed Effects SE Method Model-Based

Degrees of Freedom Method Containment

Class Level Information

Class Levels Values

subject 26 1 2 3 5 6 7 8 9 10 11 12 13 14

15 16 17 18 19 20 21 22 23 24

25 26 27

scenario 2 1 2

method 3 1 2 3

Dimensions

Covariance Parameters 4

Columns in X 12

Columns in Z 156

Subjects 1

Max Obs Per Subject 156

Number of Observations

Number of Observations Read 156

Number of Observations Used 156

Number of Observations Not Used 0

Iteration History

Iteration Evaluations -2 Res Log Like Criterion

0 1 893.46972410

1 3 889.57794044 0.00003133

2 1 889.56798986 0.00000009

3 1 889.56796158 0.00000000

Convergence criteria met.

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The Mixed Procedure

Covariance Parameter

Estimates

Cov Parm Estimate

subject 2.2788

subject\*scenario 0

subject\*method 0

Residual 17.5724

Fit Statistics

-2 Res Log Likelihood 889.6

AIC (smaller is better) 893.6

AICC (smaller is better) 893.6

BIC (smaller is better) 896.1

Type 3 Tests of Fixed Effects

Num Den

Effect DF DF F Value Pr > F

scenario 1 25 0.03 0.8755

method 2 50 0.46 0.6327

scenario\*method 2 50 0.04 0.9650

Least Squares Means

Standard

Effect scenario method Estimate Error DF t Value Pr > |t|

scenario 1 10.8796 0.5594 25 19.45 <.0001

scenario 2 10.7733 0.5594 25 19.26 <.0001

method 1 10.3946 0.6524 50 15.93 <.0001

method 2 11.1698 0.6524 50 17.12 <.0001

method 3 10.9150 0.6524 50 16.73 <.0001

scenario\*method 1 1 10.3458 0.8738 50 11.84 <.0001

scenario\*method 1 2 11.3392 0.8738 50 12.98 <.0001

scenario\*method 1 3 10.9538 0.8738 50 12.54 <.0001

scenario\*method 2 1 10.4435 0.8738 50 11.95 <.0001

scenario\*method 2 2 11.0004 0.8738 50 12.59 <.0001

scenario\*method 2 3 10.8762 0.8738 50 12.45 <.0001