

SPSS syntax.

## 1. BPDSI predicted by previous schema modes

\*Generalized Linear Mixed Models.

GENLINMIXED

```
/DATA_STRUCTURE SUBJECTS=Site_Cohort*ppnr
/FIELDS TARGET=BPDSI_01_dep TRIALS=NONE OFFSET=NONE
/TARGET_OPTIONS DISTRIBUTION=GAMMA LINK=LOG
/FIXED EFFECTS=Time BPDSI_C_pred VC_C_pred HA_C_pred DP_C_pred DSS_C_pred Con3
Con3*Time
  USE_INTERCEPT=TRUE
/RANDOM EFFECTS=Time USE_INTERCEPT=FALSE SUBJECTS=Site_Cohort
COVARIANCE_TYPE=VARIANCE_COMPONENTS
  SOLUTION=FALSE
/RANDOM USE_INTERCEPT=TRUE SUBJECTS=Site_Cohort*ppnr
COVARIANCE_TYPE=VARIANCE_COMPONENTS
  SOLUTION=FALSE
/BUILD_OPTIONS TARGET_CATEGORY_ORDER=ASCENDING
INPUTS_CATEGORY_ORDER=ASCENDING
  HCONVERGE=0.00000001(RELATIVE) MAX_ITERATIONS=100 CONFIDENCE_LEVEL=95
DF_METHOD=SATTERTHWAITE
  COVB=MODEL SCORING=0 SINGULAR=0.000000000001
/EMMEANS_OPTIONS SCALE=ORIGINAL PADJUST=LSD.
```

## 2. BPDSI predicted by previous schema modes, time effects per treatment condition

\*Generalized Linear Mixed Models.

GENLINMIXED

```
/DATA_STRUCTURE SUBJECTS=Site_Cohort*ppnr
/FIELDS TARGET=BPDSI_01_dep TRIALS=NONE OFFSET=NONE
/TARGET_OPTIONS DISTRIBUTION=GAMMA LINK=LOG
/FIXED EFFECTS=BPDSI_C_pred VC_C_pred HA_C_pred IC_C_pred DSS_C_pred Con3*Time
  USE_INTERCEPT=TRUE
/RANDOM EFFECTS=Time USE_INTERCEPT=FALSE SUBJECTS=Site_Cohort
COVARIANCE_TYPE=VARIANCE_COMPONENTS
  SOLUTION=FALSE
/RANDOM USE_INTERCEPT=TRUE SUBJECTS=Site_Cohort*ppnr
COVARIANCE_TYPE=VARIANCE_COMPONENTS
  SOLUTION=FALSE
/BUILD_OPTIONS TARGET_CATEGORY_ORDER=ASCENDING
INPUTS_CATEGORY_ORDER=ASCENDING
  HCONVERGE=0.00000001(RELATIVE) MAX_ITERATIONS=100 CONFIDENCE_LEVEL=95
DF_METHOD=SATTERTHWAITE
  COVB=MODEL SCORING=0 SINGULAR=0.000000000001
/EMMEANS_OPTIONS SCALE=ORIGINAL PADJUST=LSD.
```

## 3. Test of reverse Granger causality: Healthy Adult Mode predicted by BPDSI.

\*HA dependent variable.

```

MIXED HA_dep BY Con3 WITH HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0,
ABSOLUTE)
/FIXED=Con3 HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time Con3*Time |
SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC)
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).

```

\*Time in treatment only.

```

MIXED HA_dep BY Con3 WITH HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0,
ABSOLUTE)
/FIXED=HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Con3*Time | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC)
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).

```

#### **4. Test of reverse Granger causality: Vulnerable Child Mode predicted by BPDSI.**

\*VC dependent variable.

```

MIXED VC_dep BY Con3 WITH HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0,
ABSOLUTE)
/FIXED=Con3 HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time Con3*Time |
SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC)
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).

```

\*Time in treatment only.

```

MIXED VC_dep BY Con3 WITH HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0,
ABSOLUTE)
/FIXED=HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Con3*Time | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC)

```

/RANDOM=Time | SUBJECT(Site\_Cohort) COVTYPE(VC).

##### **5. Test of reverse Granger causality: Detached Self-Soother Mode predicted by BPDSI.**

\*DSS dependent variable.

```
MIXED DSS_dep BY Con3 WITH HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0,
ABSOLUTE)
/FIXED=Con3 HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time Con3*Time |
SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC)
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

\*Time in treatment only.

```
MIXED DSS_dep BY Con3 WITH HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0,
ABSOLUTE)
/FIXED=HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Con3*Time | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC)
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

##### **6. Test of reverse Granger causality: Impulsive Child Mode predicted by BPDSI.**

\*IC dependent variable.

```
MIXED IC_dep BY Con3 WITH HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0,
ABSOLUTE)
/FIXED=Con3 HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time Con3*Time |
SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC)
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

\*Time in treatment only.

```
MIXED IC_dep BY Con3 WITH HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Time
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
```

```

SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0,
  ABSOLUTE)
/FIXED=HA_C_pred VC_C_pred DSS_C_pred IC_C_pred BPDSI_C_pred Con3*Time | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC)
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).

```

## 7. BPDSI predicted by previous schema modes, with interactions of schema modes and treatment arm

\*Generalized Linear Mixed Models.

```

GENLINMIXED
/ DATA_STRUCTURE SUBJECTS=Site_Cohort*ppnr
/ FIELDS TARGET=BPDSI_01_dep TRIALS=NONE OFFSET=NONE
/ TARGET_OPTIONS DISTRIBUTION=GAMMA LINK=LOG
/ FIXED EFFECTS=Time Con3 Con3*Time BPDSI_C_pred HA_C_pred VC_C_pred IC_C_pred
DSS_C_pred STAU*HA_C_pred STAU*VC_C_pred STAU*IC_C_pred STAU*DSS_C_pred
PGST*HA_C_pred PGST*VC_C_pred PGST*IC_C_pred PGST*DSS_C_pred
USE_INTERCEPT=TRUE
/ RANDOM EFFECTS=Time USE_INTERCEPT=FALSE SUBJECTS=Site_Cohort
COVARIANCE_TYPE=VARIANCE_COMPONENTS
  SOLUTION=FALSE
/ RANDOM USE_INTERCEPT=TRUE SUBJECTS=Site_Cohort*ppnr
COVARIANCE_TYPE=VARIANCE_COMPONENTS
  SOLUTION=FALSE
/ BUILD_OPTIONS TARGET_CATEGORY_ORDER=ASCENDING
INPUTS_CATEGORY_ORDER=DESCENDING
  HCONVERGE=0.00000001(RELATIVE) MAX_ITERATIONS=100 CONFIDENCE_LEVEL=95
DF_METHOD=SATTERTHWAITE
  COVB=MODEL SCORING=0 SINGULAR=0.000000000001
/ EMMEANS_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

```

## 8. BPDSI predicted by previous schema modes, with interactions of schema modes and treatment arm. Time effects per treatment condition.

\*Generalized Linear Mixed Models.

\*for time in treatment effects and their d.f.'s.

```

GENLINMIXED
/ DATA_STRUCTURE SUBJECTS=Site_Cohort*ppnr
/ FIELDS TARGET=BPDSI_01_dep TRIALS=NONE OFFSET=NONE
/ TARGET_OPTIONS DISTRIBUTION=GAMMA LINK=LOG
/ FIXED EFFECTS=Time*STAU Time*PGST Time*IGST BPDSI_C_pred HA_C_pred VC_C_pred
IC_C_pred DSS_C_pred STAU*HA_C_pred STAU*VC_C_pred STAU*IC_C_pred STAU*DSS_C_pred
PGST*HA_C_pred PGST*VC_C_pred PGST*IC_C_pred PGST*DSS_C_pred
USE_INTERCEPT=TRUE
/ RANDOM EFFECTS=Time USE_INTERCEPT=FALSE SUBJECTS=Site_Cohort
COVARIANCE_TYPE=VARIANCE_COMPONENTS
  SOLUTION=FALSE
/ RANDOM USE_INTERCEPT=TRUE SUBJECTS=Site_Cohort*ppnr
COVARIANCE_TYPE=VARIANCE_COMPONENTS

```

```
SOLUTION=FALSE
/BUILD_OPTIONS TARGET_CATEGORY_ORDER=ASCENDING
INPUTS_CATEGORY_ORDER=DESCENDING
HCONVERGE=0.00000001(RELATIVE) MAX_ITERATIONS=100 CONFIDENCE_LEVEL=95
DF_METHOD=SATTERTHWAITE
COVB=MODEL SCORING=0 SINGULAR=0.000000000001
/EMMEANS_OPTIONS SCALE=ORIGINAL PADJUST=LSD.
```

## 9. GAF residual scores predicted by schema modes

```
MIXED RES_GAF_dep BY Con3 WITH Time GAF_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Time GAF_C_pred HA_C_pred SA_C_pred Con3*Time | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

\*Time within con.

```
DATASET ACTIVATE DataSet2.
```

```
MIXED RES_GAF_dep BY Con3 WITH Time GAF_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 GAF_C_pred HA_C_pred SA_C_pred Con3*Time | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

\*Time within con & SA x Con interaction.

```
MIXED RES_GAF_dep BY Con3 WITH Time GAF_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 GAF_C_pred HA_C_pred SA_C_pred Con3*Time SA_C_pred*Con3 | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

\*Time within con & SA x Con interaction & HA x Con interaction.

```
MIXED RES_GAF_dep BY Con3 WITH Time GAF_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 GAF_C_pred HA_C_pred SA_C_pred Con3*Time HA_C_pred*Con3 SA_C_pred*Con3 |
SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

## 10. Reverse prediction of schema modes by GAF

\*Reverse prediction of HA by GAF.

```
MIXED HA_dep BY Con3 WITH Time GAF_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Time Con3*Time GAF_C_pred HA_C_pred SA_C_pred | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC)
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC).
```

\*Reverse prediction of HA by GAF with Time for each CON.

```
MIXED HA_dep BY Con3 WITH Time GAF_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Con3*Time GAF_C_pred HA_C_pred SA_C_pred | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC)
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC).
```

\*Reverse prediction of SA by GAF.

```
MIXED SA_dep BY Con3 WITH Time GAF_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Time Con3*Time GAF_C_pred HA_C_pred SA_C_pred | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC)
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC).
```

\*Reverse prediction of SA by GAF with Time for each CON.

```
MIXED SA_dep BY Con3 WITH Time GAF_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Con3*Time GAF_C_pred HA_C_pred SA_C_pred | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC)
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC).
```

## 11. SOFAS residual scores predicted by schema modes.

```
MIXED RES_SOFAS_dep BY Con3 WITH Time SOFAS_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
```

```
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Time SOFAS_C_pred HA_C_pred SA_C_pred Con3*Time | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

\*Time within con.

```
DATASET ACTIVATE DataSet2.
MIXED RES_SOFAS_dep BY Con3 WITH Time SOFAS_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 SOFAS_C_pred HA_C_pred SA_C_pred Con3*Time | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

\*Time within con & SA x Con interaction.

```
MIXED RES_SOFAS_dep BY Con3 WITH Time SOFAS_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 SOFAS_C_pred HA_C_pred SA_C_pred Con3*Time SA_C_pred*Con3 | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

\*Time within con & SA x Con interaction & HA x Con interaction.

```
MIXED RES_SOFAS_dep BY Con3 WITH Time SOFAS_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 SOFAS_C_pred HA_C_pred SA_C_pred Con3*Time HA_C_pred*Con3 SA_C_pred*Con3
| SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC).
```

## 12. Reverse prediction of schema modes by SOFAS.

\*Reverse prediction of HA by SOFAS.

```
MIXED HA_dep BY Con3 WITH Time SOFAS_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Time Con3*Time SOFAS_C_pred HA_C_pred SA_C_pred | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC)
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC).
```

\*Reverse prediction of HA by SOFAS with Time for each CON.

```
MIXED HA_dep BY Con3 WITH Time SOFAS_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Con3*Time SOFAS_C_pred HA_C_pred SA_C_pred | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC)
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC).
```

\*Reverse prediction of SA by SOFAS.

```
MIXED SA_dep BY Con3 WITH Time SOFAS_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Time Con3*Time SOFAS_C_pred HA_C_pred SA_C_pred | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC)
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC).
```

\*Reverse prediction of SA by SOFAS with Time for each CON.

```
MIXED SA_dep BY Con3 WITH Time SOFAS_C_pred HA_C_pred SA_C_pred
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
SINGULAR(0.000000000001) HCONVERGE(0.00000001, RELATIVE) LCONVERGE(0, ABSOLUTE)
PCONVERGE(0, ABSOLUTE)
/FIXED=Con3 Con3*Time SOFAS_C_pred HA_C_pred SA_C_pred | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=Time | SUBJECT(Site_Cohort) COVTYPE(VC)
/RANDOM=INTERCEPT | SUBJECT(ppnr) COVTYPE(VC).
```