

* Encoding: UTF-8.

USE ALL.

COMPUTE filter_\$=(epoch_within_episode = 12 & every_20th_row = 1 &

Within_x_hours_of_last_episode_first > 1).

VARIABLE LABELS filter_\$ 'epoch_within_episode = 12 & every_20th_row = 1 &

Within_x_hours_of_last_episode_first > 1(FILTER)'.
VALUE LABELS filter_\$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_\$ (f1.0).
FILTER BY filter_\$.
EXECUTE.

use all.

***mixed models

*****HR with time as cat variable

MIXED LOC_composite_max BY time_of_day_category WITH HRbpm_episode_mean30m

ActivityScoreMET.s_mean30m

/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)

SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)

/FIXED=time_of_day_category HRbpm_episode_mean30m

ActivityScoreMET.s_mean30m | SSTYPE(3)

/METHOD=REML

/PRINT=G DESCRIPTIVES SOLUTION

/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).

HR w time cat btw win*

MIXED LOC_composite_max BY time_of_day_category WITH HRbpm_meancentered_personmean30m

HR_Dev_from_pers_avg30m ActivityScoreMET.s_mean30m

/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)

SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)

/FIXED=time_of_day_category HRbpm_meancentered_personmean30m HR_Dev_from_pers_avg30m

ActivityScoreMET.s_mean30m | SSTYPE(3)

/METHOD=REML

/PRINT=G DESCRIPTIVES SOLUTION

/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).

***RMSSD with time as a cat variable **

MIXED LOC_composite_max BY time_of_day_category WITH RMSSDmsec_episode_mean30m

ActivityScoreMET.s_mean30m

/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)

```
SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)
/FIXED=time_of_day_category RMSSDmsec_episode_mean30m ActivityScoreMET.s_mean30m | SSTY
(3)
/METHOD=REML
/PRINT=G DESCRIPTIVES SOLUTION
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

***RMSSD time cats, btw win

```
MIXED LOC_composite_max BY time_of_day_category WITH
RMSSDmsec_meancentered_personmean30m
  RMSSD_Dev_from_pers_avg30m ActivityScoreMET.s_mean30m
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)
/FIXED=time_of_day_category RMSSDmsec_meancentered_personmean30m RMSSD_Dev_from_pers
30m
  ActivityScoreMET.s_mean30m | SSTYPE(3)
/METHOD=REML
/PRINT=G DESCRIPTIVES SOLUTION
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

*** pnn50 with time as cat variable

```
MIXED LOC_composite_max BY time_of_day_category WITH pNN50_episode_mean30m
  ActivityScoreMET.s_mean30m
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)
/FIXED=time_of_day_category pNN50_episode_mean30m ActivityScoreMET.s_mean30m | SSTYPE(3)
/METHOD=REML
/PRINT= G DESCRIPTiVES SOLUTION
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

***pnn50 time cat with btw and win effects

```
MIXED LOC_composite_max BY time_of_day_category WITH pnn50_meancentered_personmean30m
  pNN50_Dev_from_pers_avg30m ActivityScoreMET.s_mean30m
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)
/FIXED=time_of_day_category pnn50_meancentered_personmean30m pNN50_Dev_from_pers_avg30r
  ActivityScoreMET.s_mean30m | SSTYPE(3)
/METHOD=REML
/PRINT=G DESCRIPTIVES SOLUTION
```

/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).

**Pattern mixture models to test if complinace affects relationship

```
MIXED LOC_composite_max BY time_of_day_category RComplia_first WITH
  HRbpm_episode_mean30m ActivityScoreMET.s_mean30m
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)
/FIXED=time_of_day_category RComplia_first HRbpm_episode_mean30m
  ActivityScoreMET.s_mean30m RComplia_first*HRbpm_episode_mean30m | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

```
MIXED LOC_composite_max BY time_of_day_category RComplia_first WITH
  ActivityScoreMET.s_mean30m RMSSDmsec_episode_mean30m
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)
/FIXED=time_of_day_category RComplia_first ActivityScoreMET.s_mean30m
  RMSSDmsec_episode_mean30m RComplia_first*RMSSDmsec_episode_mean30m | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

```
MIXED LOC_composite_max BY time_of_day_category RComplia_first WITH
  ActivityScoreMET.s_mean30m pNN50_episode_mean30m
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)
/FIXED=time_of_day_category RComplia_first ActivityScoreMET.s_mean30m
  pNN50_episode_mean30m RComplia_first*pNN50_episode_mean30m | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

***repeat pattern mixture model for number of eating episodes

```
MIXED LOC_composite_max BY time_of_day_category RTotal_n_first WITH
  HRbpm_episode_mean30m ActivityScoreMET.s_mean30m
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF
(0.000001, ABSOLUTE)
/FIXED=time_of_day_category RTotal_n_first HRbpm_episode_mean30m
  ActivityScoreMET.s_mean30m RTotal_n_first*HRbpm_episode_mean30m | SSTYPE(3)
```

```
/METHOD=REML  
/PRINT=SOLUTION  
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

```
MIXED LOC_composite_max BY time_of_day_category RTotal_n_first WITH  
  ActivityScoreMET.s_mean30m RMSSDmsec_episode_mean30m  
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)  
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF  
(0.000001, ABSOLUTE)  
/FIXED=time_of_day_category RTotal_n_first ActivityScoreMET.s_mean30m  
  RMSSDmsec_episode_mean30m RTotal_n_first*RMSSDmsec_episode_mean30m | SSTYPE(3)  
/METHOD=REML  
/PRINT=SOLUTION  
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

```
MIXED LOC_composite_max BY time_of_day_category RTotal_n_first WITH  
  ActivityScoreMET.s_mean30m pNN50_episode_mean30m  
/CRITERIA=DFMETHOD(SATTERTHWAITE) CIN(95) MXITER(100) MXSTEP(10) SCORING(1)  
  SINGULAR(0.000000000001) HCONVERGE(0, ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVEF  
(0.000001, ABSOLUTE)  
/FIXED=time_of_day_category RTotal_n_first ActivityScoreMET.s_mean30m  
  pNN50_episode_mean30m RTotal_n_first*pNN50_episode_mean30m | SSTYPE(3)  
/METHOD=REML  
/PRINT=SOLUTION  
/RANDOM=INTERCEPT | SUBJECT(Participant_ID) COVTYPE(VC).
```

use all.