Work

Trevor Freeland

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SNUM: subject ID SYS: systolic blood pressure (mmHg) (**Response Variable**) DIA: diastolic blood pressure (mmHg)  
HRT: heart rate (beats per minute)  
MNACT5: activity level (frequency of movements in 1-minute intervals, over a 10-minute period )  
PHASE: menstrual phase (follicular—beginning with the end of menstruation and ending with ovulation, or luteal—beginning with ovulation and ending with pregnancy or menstruation)  
DAY: workday or non-workday  
POSTURE: position during blood pressure measurement—either sitting, standing, or reclining  
STR, HAP, TIR: self-ratings by each nurse of their level of stress, happiness and tiredness at the time of each blood pressure measurement on a 5-point scale, with 5 being the strongest sensation of that feeling and 1 the weakest  
AGE: age in years  
FH123: coded as either NO (no family history of hypertension), YES (1 hypertensive parent), or YESYES (both parents hypertensive)  
time: in minutes from midnight  
timept: number of the measurement that day (approximately 50 for each subject)  
timepass: time in minutes beginning with 0 at time point 1

## Results

Model:

Level 1:

Level 2:

Stuff I need:

SYS

B

CI

p

Fixed Parts

(Intercept)

79.24

66.42 – 92.07

<.001

DAYW

17.42

4.37 – 30.47

.009

AGE

3.22

0.59 – 5.84

.016

HRT

1.29

0.25 – 2.34

.015

HAP

1.17

0.10 – 2.23

.032

MNACT5

0.53

0.36 – 0.70

<.001

POSTURESIT

9.20

0.98 – 17.43

.028

POSTURESTAND

16.57

8.16 – 24.98

<.001

PHASEL

-1.61

-4.44 – 1.22

.266

FH123YES

-2.43

-5.06 – 0.19

.069

FH123YESYES

5.99

1.03 – 10.95

.018

timept

-0.36

-0.77 – 0.05

.089

DAYW:AGE

-3.92

-7.33 – -0.52

.024

HRT:POSTURESIT

0.29

-0.78 – 1.37

.591

HRT:POSTURESTAND

-0.62

-1.69 – 0.45

.256

HAP:POSTURESIT

-1.37

-2.44 – -0.30

.012

HAP:POSTURESTAND

-1.39

-2.47 – -0.31

.012

MNACT5:POSTURESIT

-0.29

-0.46 – -0.11

.001

MNACT5:POSTURESTAND

-0.27

-0.46 – -0.08

.006

MNACT5:PHASEL

0.11

0.02 – 0.20

.021

FH123YES:timept

0.92

0.27 – 1.57

.005

FH123YESYES:timept

0.22

-1.01 – 1.45

.724

Random Parts

σ2

145.601

τ00, SNUM

56.507

ρ01

-0.298

NSNUM

181

ICCSNUM

0.280

Observations

7859

R2 / Ω02

.375 / .373