

# 6 Month Analysis

*Tim Vigers & Laura Pyle*

*08 February 2019*

```
hba1c ~ tpoint,random = ~1|record_id

## Linear mixed-effects model fit by REML
## Data: alldata
##      AIC      BIC    logLik
##  928.9684 950.8198 -458.4842
##
## Random effects:
## Formula: ~1 | record_id
##      (Intercept) Residual
## StdDev:      1.531595 0.7628051
##
## Fixed effects: hba1c ~ tpoint
##              Value Std.Error DF  t-value p-value
## (Intercept)  8.905885 0.1684970 179 52.85487  0.0000
## tpointM1     -0.504861 0.1943639 179 -2.59750  0.0102
## tpointT1     -0.399390 0.1135836 179 -3.51626  0.0006
## tpointT2     -0.152847 0.1229204 179 -1.24347  0.2153
## Correlation:
##      (Intr) tpntM1 tpntT1
## tpointM1 -0.180
## tpointT1 -0.306  0.245
## tpointT2 -0.282  0.254  0.434
##
## Standardized Within-Group Residuals:
##      Min      Q1      Med      Q3      Max
## -2.52084492 -0.45057399 -0.07291769  0.33923792  4.19213416
##
## Number of Observations: 286
## Number of Groups: 104
```

```

hba1c ~ days, random = ~1|record_id

## Linear mixed-effects model fit by REML
## Data: alldata
##      AIC      BIC    logLik
##  778.677 792.5995 -385.3385
##
## Random effects:
## Formula: ~1 | record_id
##      (Intercept) Residual
## StdDev:      1.512407 0.7235814
##
## Fixed effects: hba1c ~ days
##              Value Std.Error DF  t-value p-value
## (Intercept)  8.603510 0.17477677 149 49.22571  0.0000
## days        -0.000479 0.00063528 149 -0.75434  0.4518
## Correlation:
##      (Intr)
## days -0.326
##
## Standardized Within-Group Residuals:
##      Min      Q1      Med      Q3      Max
## -3.0799398 -0.4523256 -0.0822346  0.3143456  4.0072168
##
## Number of Observations: 242
## Number of Groups: 92

```

```

hba1c ~ tpoint,random = ~ record_id|days

## Linear mixed-effects model fit by REML
## Data: alldata
##      AIC      BIC    logLik
##  927.7263 955.5045 -455.8632
##
## Random effects:
## Formula: ~record_id | days
## Structure: General positive-definite, Log-Cholesky parametrization
##           StdDev      Corr
## (Intercept) 1.281587e-06 (Intr)
## record_id   1.063620e-02 -0.411
## Residual    1.499877e+00
##
## Fixed effects: hba1c ~ tpoint
##           Value Std.Error DF  t-value p-value
## (Intercept)  8.828549 0.2338424 120 37.75427  0.0000
## tpointM1      0.053112 0.4049688 118  0.13115  0.8959
## tpointT1     -0.686968 0.3005481 118 -2.28572  0.0241
## tpointT2     -0.225766 0.3088378 118 -0.73102  0.4662
## Correlation:
##           (Intr) tpntM1 tpntT1
## tpointM1 -0.538
## tpointT1 -0.778  0.422
## tpointT2 -0.757  0.407  0.591
##
## Standardized Within-Group Residuals:
##           Min      Q1      Med      Q3      Max
## -1.7248357 -0.5809611 -0.2146586  0.4731189  4.3766241
##
## Number of Observations: 242
## Number of Groups: 121

```