HOI_LLK_Repeated_Measures_ANOVA

2024-10-09

```
library(tidyverse)
```

```
## — Attaching core tidyverse packages —
                                                            — tidyverse 2.0.0 —
## ✔ dplyr
              1.1.4
                        ✓ readr
                                    2.1.5
## ✓ forcats 1.0.0
                        ✓ stringr
                                  1.5.1
## ✓ ggplot2 3.5.1 ✓ tibble
                                   3.2.1

✓ tidyr

## ✓ lubridate 1.9.3
                                   1.3.1
              1.0.2
## ✓ purrr
                                                   ——— tidyverse_conflicts() —
## — Conflicts ——
## * dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(ggplot2)
library(sjPlot)
library(broom)
library(effectsize)
library(afex)
```

```
## Loading required package: lme4
## Loading required package: Matrix
##
## Attaching package: 'Matrix'
## The following objects are masked from 'package:tidyr':
##
##
       expand, pack, unpack
##
## *******
## Welcome to afex. For support visit: http://afex.singmann.science/
## - Functions for ANOVAs: aov car(), aov ez(), and aov 4()
## - Methods for calculating p-values with mixed(): 'S', 'KR', 'LRT', and 'PB'
## - 'afex aov' and 'mixed' objects can be passed to emmeans() for follow-up tests
## - Get and set global package options with: afex_options()
## - Set sum-to-zero contrasts globally: set sum contrasts()
## - For example analyses see: browseVignettes("afex")
## *******
##
## Attaching package: 'afex'
##
## The following object is masked from 'package:lme4':
##
##
       lmer
```

library(emmeans)

```
## Welcome to emmeans.
## Caution: You lose important information if you filter this package's results.
## See '? untidy'
```

```
library(ggpubr)
library(rstatix)
```

```
##
## Attaching package: 'rstatix'
##
## The following objects are masked from 'package:effectsize':
##
## cohens_d, eta_squared
##
## The following object is masked from 'package:stats':
##
## filter
```

```
\#rm(list = ls())
```

```
#Load the dataframes
features_1H_raw<- read_csv("Features_1H.csv")
```

```
## New names:
## Rows: 30 Columns: 27
## — Column specification
##

## (2): subject_id, Group dbl (25): ...1, Alpha_DTC, Alpha_0, Alpha_S, Alpha_TC,
## Beta_DTC, Beta_0, Bet...
## i Use `spec()` to retrieve the full column specification for this data. i
## Specify the column types or set `show_col_types = FALSE` to quiet this message.
## • `` -> `...1`
```

```
features_24H_raw<- read_csv("Features_24H.csv")</pre>
```

```
## New names:
## Rows: 30 Columns: 27
## — Column specification
##

## (2): subject_id, Group dbl (25): ...1, Alpha_DTC, Alpha_O, Alpha_S, Alpha_TC,
## Beta_DTC, Beta_O, Bet...
## i Use `spec()` to retrieve the full column specification for this data. i
## Specify the column types or set `show_col_types = FALSE` to quiet this message.
## • `` -> `...1`
```

features_Day7_raw<- read_csv("Features_Day7.csv")</pre>

```
## New names:
## Rows: 30 Columns: 27
## — Column specification
##

## (2): subject_id, Group dbl (25): ...1, Alpha_DTC, Alpha_O, Alpha_S, Alpha_TC,
## Beta_DTC, Beta_O, Bet...
## i Use `spec()` to retrieve the full column specification for this data. i
## Specify the column types or set `show_col_types = FALSE` to quiet this message.
## • `` -> `...1`
```

Data Wrangling

Converting into binary factors and imputing missing data

```
#Convert the group into a binary factor variables for all 3 datasets
features 1H raw<-features 1H raw%>%
 mutate(Group= factor(ifelse(Group == "Ketamine", 1, 0)))
features 24H raw<-features 24H raw%>%
 mutate(Group= factor(ifelse(Group == "Ketamine", 1, 0)))
features Day7 raw<-features Day7 raw%>%
 mutate(Group= factor(ifelse(Group == "Ketamine", 1, 0)))
#Impute missing data by calculating mean for the rest of the column
#1H
features_1H_imputed <- features_1H_raw %>%
 mutate(across(-all_of("Group"), ~ ifelse(is.na(.), mean(., na.rm = TRUE), .)))
#24H
#RS_024 in 24H data has bad data; replace all values with NA and then impute
features 24H raw <- features 24H raw %>%
 mutate(across(-c(1:3), ~ ifelse(subject_id == "RS_024_deltas", NA, .)))
#Impute
features_24H_imputed <- features_24H_raw %>%
 mutate(across(-all_of("Group"), ~ ifelse(is.na(.), mean(., na.rm = TRUE), .)))
#Day 7
features Day7 imputed <- features Day7 raw %>%
 mutate(across(-all of("Group"), ~ ifelse(is.na(.), mean(., na.rm = TRUE), .)))
```

Converting into one long dataframe

```
# Combine timepoint datasets into one long format
features combined <- bind rows(</pre>
  mutate(features_1H_imputed, timepoint = "1H"),
  mutate(features 24H imputed, timepoint = "24H"),
  mutate(features Day7 imputed, timepoint = "Day7")
# Gather measures and frequency bands
features long <- features combined %>%
  pivot longer(
    cols = -c(subject id, Group, timepoint, ...1), # Keep 'subject' and 'timepoint' columns
    names_to = c("frequency_band", "measure"), # Separate column names into 'frequency_band' and 'measure'
    names pattern = "([A-Za-z]+)([A-Z]+)",
    values to = "value" # The new column for the values
#Make subject id into a factor
features long<-features long%>%
  mutate(subject id=as.factor(subject id))
#Turn features long from a tibble to a dataframe
features long <- as.data.frame(features long)</pre>
# View the structure of the long-format dataset
str(features_long)
```

Preview the first few rows
head(features_long)

```
subject_id Group timepoint frequency_band measure
                                                                       value
     ...1
##
        0 RS_006_deltas
                                     1H
                                                 Alpha
                                                            DTC -0.225868035
## 1
                            1
## 2
        0 RS_006_deltas
                            1
                                     1H
                                                 Alpha
                                                              0 0.130845761
## 3
        0 RS_006_deltas
                            1
                                     1H
                                                 Alpha
                                                              S -0.417924547
        0 RS_006_deltas
## 4
                            1
                                     1H
                                                 Alpha
                                                             TC 0.566395986
## 5
        0 RS_006_deltas
                            1
                                     1H
                                                   Beta
                                                            DTC 0.103792239
        0 RS_006_deltas
## 6
                            1
                                     1H
                                                   Beta
                                                              0 -0.001016274
```

Separate the frequency bands and measures and loop through a list of models

```
# Define frequency bands and measures
frequency bands <- unique(features long$frequency band)</pre>
measures <- unique(features long$measure)</pre>
# Loop through frequency bands and measures
for (band in frequency bands) {
  for (measure in measures) {
   # Filter data for the specific frequency band and measure
   data subset <- features long %>%
      filter(frequency band == band, measure == measure)
    # Fit the repeated measures ANOVA model with subject as random effect
   model <- aov_car(value ~ Group * timepoint + Error(subject_id/(timepoint)), data = data_subset)</pre>
    # Print ANOVA summary
    cat(paste("ANOVA for Frequency Band:", band, "and Measure:", measure, "\n"))
    print(summary(model))
    # Estimated marginal means (similar to SPSS output)
    emm <- emmeans(model, ~ Group * timepoint)</pre>
    print(emm)
    # Plot estimated marginal means with confidence intervals
    emm_plot <- ggplot(as.data.frame(emm), aes(x = timepoint, y = emmean, color = Group, group = Group)) +
      geom line() +
      geom point() +
      geom\ errorbar(aes(ymin = emmean - SE, ymax = emmean + SE), width = 0.2) +
      labs(title = paste("Estimated Marginal Means for", band, "and", measure),
           x = "Timepoint", y = "Estimated Mean") +
      theme minimal()
    print(emm plot)
    # Descriptive statistics
    descriptive stats <- data subset %>%
      group_by(Group, timepoint) %>%
```

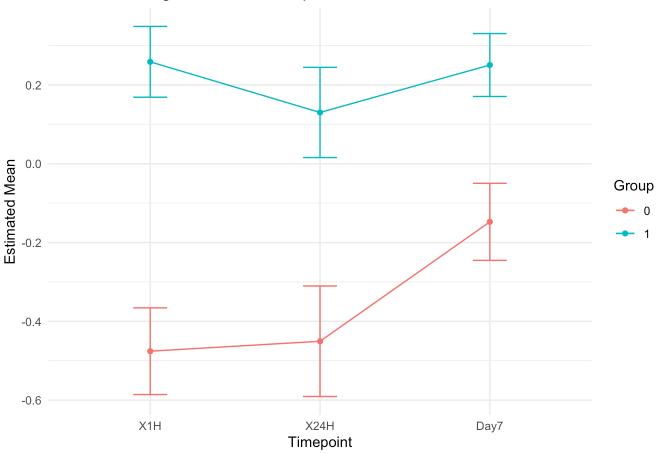
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Alpha and Measure: DTC
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                  Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                  0.4537
                              1
                                  6.0572
                                             28 2.0971
                                                          0.15868
## Group
                  7.0414
                              1
                                  6.0572
                                             28 32.5494 4.057e-06 ***
## timepoint
                  0.7018
                                  7.8245
                                             56 2.5114
                                                          0.09026 .
## Group:timepoint 0.4084
                                  7.8245
                                             56 1.4615
                                                          0.24060
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                  Test statistic p-value
## timepoint
                         0.95798 0.56014
## Group:timepoint
                         0.95798 0.56014
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                  0.95967
                             0.09276 .
## Group:timepoint 0.95967
                             0.24108
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
                    HF eps Pr(>F[HF])
## timepoint
                  1.028751 0.09025585
## Group:timepoint 1.028751 0.24060241
   Group timepoint emmean
                              SE df lower.CL upper.CL
##
   0
         X1H
                   -0.476 0.1100 28 -0.7011 -0.2504
##
         X1H
                    0.259 0.0898 28
                                    0.0746
                                               0.4426
   1
   0
         X24H
                   -0.451 0.1402 28 -0.7377
                                             -0.1634
##
##
   1
         X24H
                    0.130 0.1145 28 -0.1044
                                              0.3645
                                               0.0528
##
   0
         Day7
                   -0.148 0.0978 28 -0.3478
##
   1
                    0.250 0.0798 28
                                      0.0869
                                               0.4139
          Day7
```

Estimated Marginal Means for Alpha and DTC



```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                    <dbl> <int>
           1H
                         -0.476
## 1 0
                                   0.497
                                             48
## 2 0
           24H
                                   0.894
                         -0.451
                                             48
## 3 0
           Day7
                         -0.148
                                   0.420
                                             48
## 4 1
           1H
                          0.259
                                   0.488
                                             72
## 5 1
           24H
                          0.130
                                   0.576
                                             72
                                             72
## 6 1
           Day7
                          0.250
                                    0.580
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

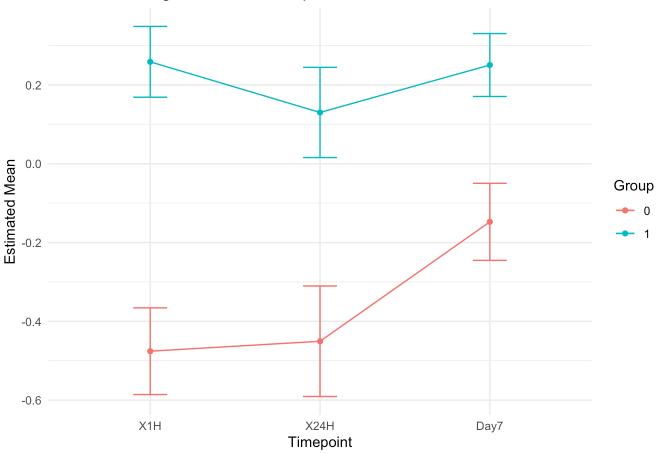
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Alpha and Measure: 0
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                  Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                  0.4537
                              1
                                  6.0572
                                             28 2.0971
                                                          0.15868
## Group
                  7.0414
                              1
                                  6.0572
                                             28 32.5494 4.057e-06 ***
## timepoint
                  0.7018
                                  7.8245
                                             56 2.5114
                                                          0.09026 .
## Group:timepoint 0.4084
                                  7.8245
                                             56 1.4615
                                                          0.24060
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                  Test statistic p-value
## timepoint
                         0.95798 0.56014
## Group:timepoint
                         0.95798 0.56014
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                  0.95967
                             0.09276 .
## Group:timepoint 0.95967
                             0.24108
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
                    HF eps Pr(>F[HF])
## timepoint
                  1.028751 0.09025585
## Group:timepoint 1.028751 0.24060241
   Group timepoint emmean
                              SE df lower.CL upper.CL
##
   0
         X1H
                   -0.476 0.1100 28 -0.7011 -0.2504
##
         X1H
                    0.259 0.0898 28
                                    0.0746
                                               0.4426
   1
   0
         X24H
                   -0.451 0.1402 28 -0.7377 -0.1634
##
##
   1
         X24H
                    0.130 0.1145 28 -0.1044
                                              0.3645
                                               0.0528
##
   0
         Day7
                   -0.148 0.0978 28 -0.3478
##
   1
                    0.250 0.0798 28
                                      0.0869
                                               0.4139
          Day7
```





```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                    <dbl> <int>
           1H
                         -0.476
## 1 0
                                    0.497
                                             48
## 2 0
           24H
                                    0.894
                         -0.451
                                             48
## 3 0
           Day7
                         -0.148
                                    0.420
                                             48
## 4 1
           1H
                          0.259
                                    0.488
                                             72
## 5 1
           24H
                          0.130
                                    0.576
                                             72
                                             72
## 6 1
           Day7
                          0.250
                                    0.580
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

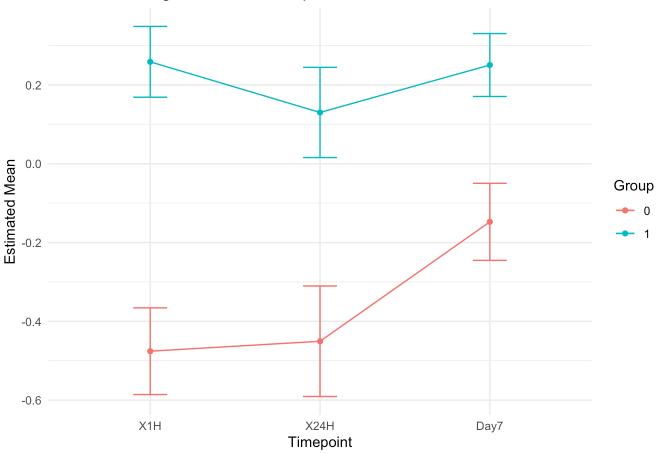
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Alpha and Measure: S
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                  Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                  0.4537
                              1
                                  6.0572
                                             28 2.0971
                                                          0.15868
## Group
                  7.0414
                              1
                                  6.0572
                                             28 32.5494 4.057e-06 ***
## timepoint
                  0.7018
                                  7.8245
                                             56 2.5114
                                                          0.09026 .
## Group:timepoint 0.4084
                                  7.8245
                                             56 1.4615
                                                          0.24060
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                  Test statistic p-value
## timepoint
                         0.95798 0.56014
## Group:timepoint
                         0.95798 0.56014
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                  0.95967
                             0.09276 .
## Group:timepoint 0.95967
                             0.24108
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
                    HF eps Pr(>F[HF])
## timepoint
                  1.028751 0.09025585
## Group:timepoint 1.028751 0.24060241
   Group timepoint emmean
                              SE df lower.CL upper.CL
##
   0
         X1H
                   -0.476 0.1100 28 -0.7011 -0.2504
##
         X1H
                    0.259 0.0898 28
                                    0.0746
                                               0.4426
   1
   0
         X24H
                   -0.451 0.1402 28 -0.7377
                                             -0.1634
##
##
   1
         X24H
                    0.130 0.1145 28 -0.1044
                                              0.3645
                                               0.0528
##
   0
         Day7
                   -0.148 0.0978 28 -0.3478
##
   1
                    0.250 0.0798 28
                                      0.0869
                                               0.4139
          Day7
```





```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                    <dbl> <int>
           1H
                         -0.476
## 1 0
                                    0.497
                                             48
## 2 0
           24H
                                    0.894
                         -0.451
                                             48
## 3 0
           Day7
                         -0.148
                                    0.420
                                             48
## 4 1
           1H
                          0.259
                                    0.488
                                             72
## 5 1
           24H
                          0.130
                                    0.576
                                             72
                                             72
## 6 1
           Day7
                          0.250
                                    0.580
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

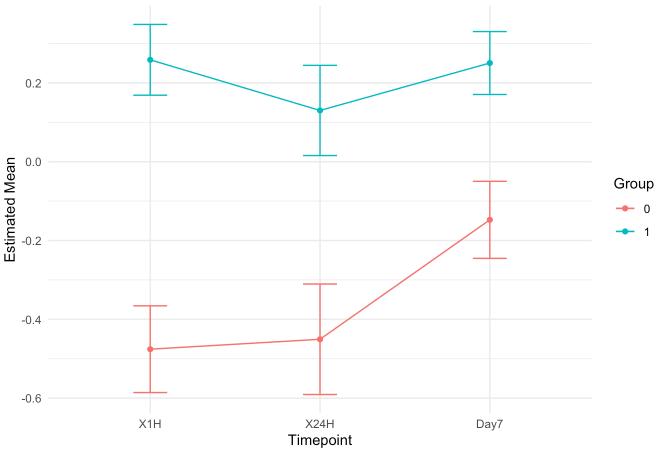
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Alpha and Measure: TC
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                  Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                  0.4537
                              1
                                  6.0572
                                             28 2.0971
                                                          0.15868
## Group
                  7.0414
                              1
                                  6.0572
                                             28 32.5494 4.057e-06 ***
## timepoint
                  0.7018
                                  7.8245
                                             56 2.5114
                                                          0.09026 .
## Group:timepoint 0.4084
                                  7.8245
                                             56 1.4615
                                                          0.24060
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                  Test statistic p-value
## timepoint
                         0.95798 0.56014
## Group:timepoint
                         0.95798 0.56014
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                  0.95967
                             0.09276 .
## Group:timepoint 0.95967
                             0.24108
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
                    HF eps Pr(>F[HF])
## timepoint
                  1.028751 0.09025585
## Group:timepoint 1.028751 0.24060241
   Group timepoint emmean
                              SE df lower.CL upper.CL
##
   0
         X1H
                   -0.476 0.1100 28 -0.7011 -0.2504
##
         X1H
                    0.259 0.0898 28
                                    0.0746
                                               0.4426
   1
   0
         X24H
                   -0.451 0.1402 28 -0.7377
                                             -0.1634
##
##
   1
         X24H
                    0.130 0.1145 28 -0.1044
                                              0.3645
                                               0.0528
##
   0
         Day7
                   -0.148 0.0978 28 -0.3478
##
   1
                    0.250 0.0798 28
                                      0.0869
                                               0.4139
          Day7
```

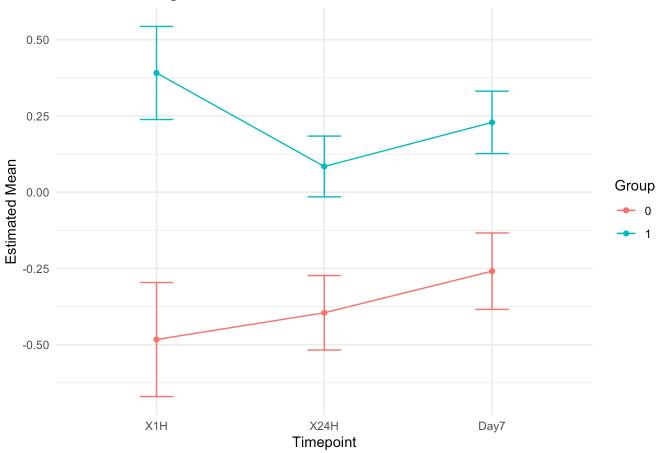




```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                    <dbl> <int>
           1H
                         -0.476
## 1 0
                                   0.497
                                             48
## 2 0
           24H
                                   0.894
                         -0.451
                                             48
## 3 0
           Day7
                         -0.148
                                   0.420
                                             48
## 4 1
           1H
                          0.259
                                   0.488
                                             72
## 5 1
           24H
                          0.130
                                   0.576
                                             72
                                             72
## 6 1
           Day7
                          0.250
                                    0.580
```

```
## ANOVA for Frequency Band: Beta and Measure: DTC
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.4500
                              1
                                  8.5554
                                             28 1.4727
                                                           0.2351
## Group
                   8.1388
                                  8.5554
                                             28 26.6367 1.786e-05 ***
## timepoint
                  0.3136
                              2 13.4606
                                             56 0.6524
                                                           0.5247
## Group:timepoint 0.7310
                              2 13.4606
                                             56 1.5206
                                                           0.2275
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.87241 0.15838
## Group:timepoint
                         0.87241 0.15838
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                   0.88684
                              0.5074
## Group:timepoint 0.88684
                              0.2294
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.9425061 0.5161807
## Group:timepoint 0.9425061 0.2285137
   Group timepoint emmean
                                SE df lower.CL upper.CL
##
   0
          X1H
                    -0.4830 0.1869 28 -0.8659 -0.10013
##
   1
          X1H
                    0.3910 0.1526 28
                                       0.0784 0.70357
##
         X24H
                   -0.3953 0.1220 28 -0.6452 -0.14541
   0
         X24H
                    0.0844 0.0996 28 -0.1197 0.28839
##
   1
##
   0
          Day7
                   -0.2590 0.1253 28 -0.5157 -0.00225
## 1
          Day7
                     0.2289 0.1023 28
                                       0.0193 0.43854
```

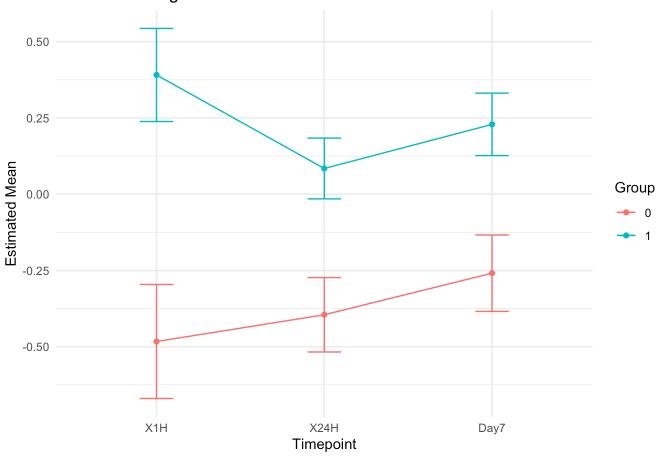
Estimated Marginal Means for Beta and DTC



```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.483
                                   0.742
## 1 0
                                             48
## 2 0
           24H
                        -0.395
                                   0.743
                                             48
## 3 0
           Day7
                        -0.259
                                   0.419
                                             48
## 4 1
           1H
                         0.391
                                   0.733
                                             72
## 5 1
           24H
                         0.0844
                                   0.613
                                             72
                                             72
## 6 1
           Day7
                         0.229
                                    0.592
```

```
## ANOVA for Frequency Band: Beta and Measure: 0
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.4500
                              1
                                  8.5554
                                             28 1.4727
                                                           0.2351
## Group
                   8.1388
                                  8.5554
                                             28 26.6367 1.786e-05 ***
## timepoint
                  0.3136
                              2 13.4606
                                             56 0.6524
                                                           0.5247
## Group:timepoint 0.7310
                              2 13.4606
                                             56 1.5206
                                                           0.2275
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                  Test statistic p-value
## timepoint
                          0.87241 0.15838
## Group:timepoint
                         0.87241 0.15838
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                   0.88684
                              0.5074
## Group:timepoint 0.88684
                              0.2294
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.9425061 0.5161807
## Group:timepoint 0.9425061 0.2285137
   Group timepoint emmean
                                SE df lower.CL upper.CL
##
   0
          X1H
                    -0.4830 0.1869 28 -0.8659 -0.10013
##
   1
          X1H
                    0.3910 0.1526 28
                                       0.0784 0.70357
##
         X24H
                   -0.3953 0.1220 28 -0.6452 -0.14541
   0
         X24H
                    0.0844 0.0996 28 -0.1197 0.28839
##
   1
##
   0
          Day7
                   -0.2590 0.1253 28 -0.5157 -0.00225
## 1
          Day7
                     0.2289 0.1023 28
                                       0.0193 0.43854
```

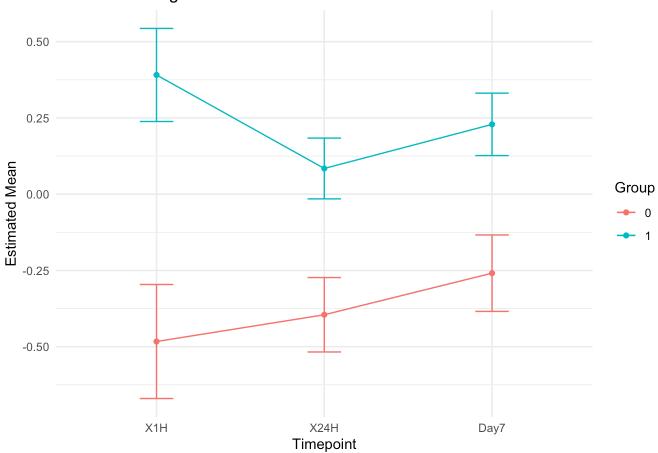




```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.483
                                   0.742
## 1 0
                                             48
## 2 0
           24H
                        -0.395
                                   0.743
                                             48
## 3 0
           Day7
                        -0.259
                                   0.419
                                             48
## 4 1
           1H
                         0.391
                                   0.733
                                             72
## 5 1
           24H
                         0.0844
                                   0.613
                                             72
                                             72
## 6 1
           Day7
                         0.229
                                    0.592
```

```
## ANOVA for Frequency Band: Beta and Measure: S
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.4500
                              1
                                  8.5554
                                             28 1.4727
                                                           0.2351
## Group
                   8.1388
                                  8.5554
                                             28 26.6367 1.786e-05 ***
## timepoint
                  0.3136
                              2 13.4606
                                             56 0.6524
                                                           0.5247
## Group:timepoint 0.7310
                              2 13.4606
                                             56 1.5206
                                                           0.2275
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.87241 0.15838
## Group:timepoint
                         0.87241 0.15838
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                   0.88684
                               0.5074
## Group:timepoint 0.88684
                              0.2294
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.9425061 0.5161807
## Group:timepoint 0.9425061 0.2285137
   Group timepoint emmean
                                SE df lower.CL upper.CL
##
   0
          X1H
                    -0.4830 0.1869 28 -0.8659 -0.10013
##
   1
          X1H
                    0.3910 0.1526 28
                                       0.0784 0.70357
         X24H
                   -0.3953 0.1220 28 -0.6452 -0.14541
##
   0
         X24H
                    0.0844 0.0996 28 -0.1197 0.28839
##
   1
##
   0
          Day7
                   -0.2590 0.1253 28 -0.5157 -0.00225
## 1
          Day7
                     0.2289 0.1023 28
                                       0.0193 0.43854
```

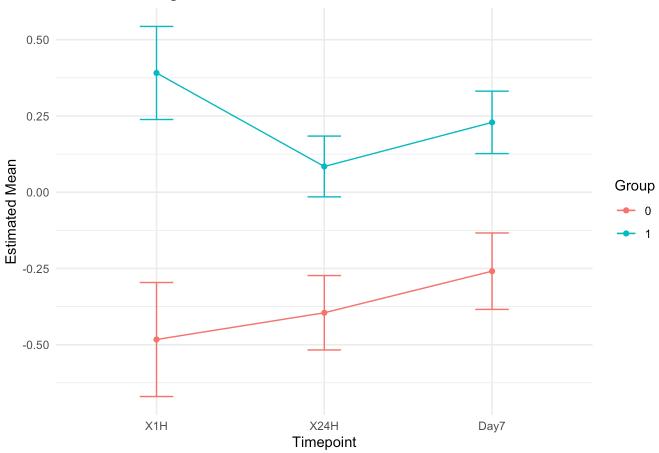




```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.483
                                   0.742
## 1 0
                                             48
## 2 0
           24H
                        -0.395
                                   0.743
                                             48
## 3 0
           Day7
                        -0.259
                                   0.419
                                             48
## 4 1
           1H
                         0.391
                                   0.733
                                             72
## 5 1
           24H
                         0.0844
                                   0.613
                                             72
                                             72
## 6 1
           Day7
                         0.229
                                    0.592
```

```
## ANOVA for Frequency Band: Beta and Measure: TC
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.4500
                              1
                                  8.5554
                                             28 1.4727
                                                           0.2351
## Group
                   8.1388
                                  8.5554
                                             28 26.6367 1.786e-05 ***
## timepoint
                  0.3136
                              2 13.4606
                                             56 0.6524
                                                           0.5247
## Group:timepoint 0.7310
                              2 13.4606
                                             56 1.5206
                                                           0.2275
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.87241 0.15838
## Group:timepoint
                         0.87241 0.15838
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                   0.88684
                               0.5074
## Group:timepoint 0.88684
                              0.2294
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.9425061 0.5161807
## Group:timepoint 0.9425061 0.2285137
   Group timepoint emmean
                                SE df lower.CL upper.CL
##
   0
          X1H
                    -0.4830 0.1869 28 -0.8659 -0.10013
##
   1
          X1H
                    0.3910 0.1526 28
                                       0.0784 0.70357
##
         X24H
                   -0.3953 0.1220 28 -0.6452 -0.14541
   0
         X24H
                    0.0844 0.0996 28 -0.1197 0.28839
##
   1
##
   0
          Day7
                   -0.2590 0.1253 28 -0.5157 -0.00225
## 1
          Day7
                     0.2289 0.1023 28
                                       0.0193 0.43854
```

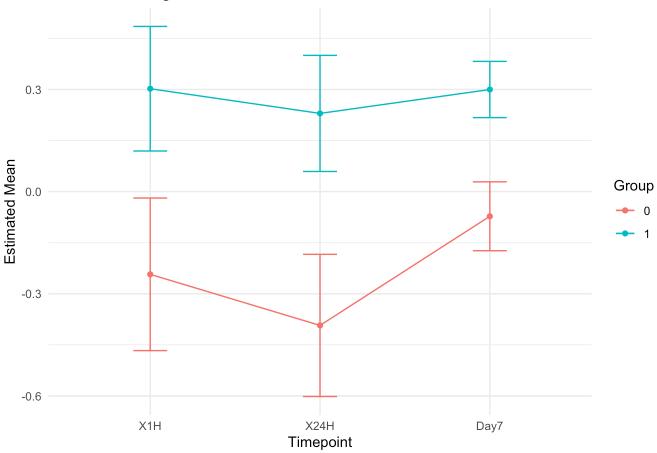




```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.483
                                   0.742
## 1 0
                                             48
## 2 0
           24H
                        -0.395
                                   0.743
                                             48
## 3 0
           Day7
                        -0.259
                                   0.419
                                             48
## 4 1
           1H
                         0.391
                                   0.733
                                             72
## 5 1
           24H
                         0.0844
                                   0.613
                                             72
                                             72
## 6 1
           Day7
                         0.229
                                    0.592
```

```
## ANOVA for Frequency Band: Delta and Measure: DTC
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sg num Df Error SS den Df F value
                                                          Pr(>F)
## (Intercept)
                   0.0362
                              1
                                  16.282
                                             28 0.0623 0.804789
## Group
                   5.6916
                              1
                                  16.282
                                             28 9.7876 0.004077 **
## timepoint
                  0.5530
                                  18,666
                                             56 0.8295 0.441551
## Group:timepoint 0.2364
                                             56 0.3547 0.702972
                              2
                                  18.666
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                         0.85324 0.11734
## Group:timepoint
                         0.85324 0.11734
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                   0.87202
                              0.4278
## Group:timepoint 0.87202
                              0.6741
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.9250688 0.4337727
## Group:timepoint 0.9250688 0.6865800
   Group timepoint emmean
                               SE df lower.CL upper.CL
##
          X1H
                   -0.2430 0.2240 28 -0.7019
   0
                                                0.2159
##
   1
          X1H
                    0.3021 0.1829 28 -0.0726
                                                0.6768
         X24H
                   -0.3930 0.2088 28 -0.8207
                                                0.0346
##
   0
         X24H
                    0.2296 0.1705 28 -0.1196
                                                0.5787
##
   1
##
   0
          Day7
                   -0.0725 0.1012 28 -0.2798
                                                0.1347
## 1
          Day7
                     0.2997 0.0826 28
                                       0.1306
                                                0.4689
```

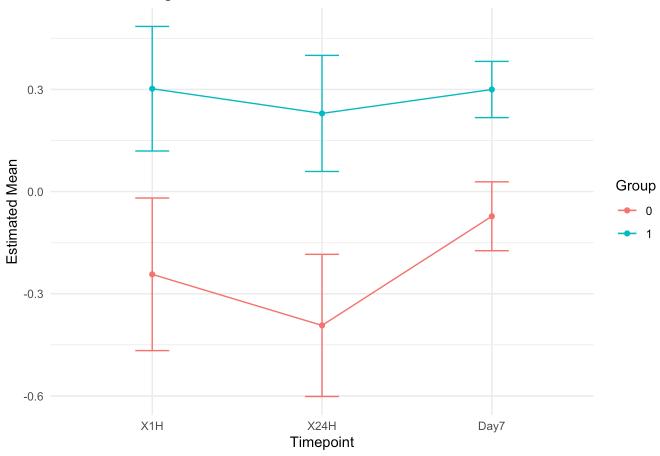
Estimated Marginal Means for Delta and DTC



```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.243
## 1 0
                                   0.998
                                             48
## 2 0
           24H
                        -0.393
                                   0.854
                                             48
## 3 0
           Day7
                        -0.0725
                                   0.361
                                             48
## 4 1
           1H
                         0.302
                                   0.871
                                             72
## 5 1
           24H
                         0.230
                                   0.922
                                             72
                                             72
## 6 1
           Day7
                         0.300
                                   0.460
```

```
## ANOVA for Frequency Band: Delta and Measure: 0
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sg num Df Error SS den Df F value
                                                          Pr(>F)
## (Intercept)
                   0.0362
                              1
                                  16.282
                                             28 0.0623 0.804789
## Group
                   5.6916
                              1
                                  16.282
                                             28 9.7876 0.004077 **
## timepoint
                  0.5530
                                  18,666
                                             56 0.8295 0.441551
## Group:timepoint 0.2364
                                             56 0.3547 0.702972
                              2
                                  18.666
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                         0.85324 0.11734
## Group:timepoint
                         0.85324 0.11734
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                   0.87202
                              0.4278
## Group:timepoint 0.87202
                              0.6741
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.9250688 0.4337727
## Group:timepoint 0.9250688 0.6865800
   Group timepoint emmean
                               SE df lower.CL upper.CL
##
          X1H
                   -0.2430 0.2240 28 -0.7019
   0
                                                0.2159
##
   1
          X1H
                    0.3021 0.1829 28 -0.0726
                                                0.6768
         X24H
                   -0.3930 0.2088 28 -0.8207
                                                0.0346
##
   0
         X24H
                    0.2296 0.1705 28 -0.1196
                                                0.5787
##
   1
##
   0
          Day7
                   -0.0725 0.1012 28 -0.2798
                                                0.1347
## 1
          Day7
                     0.2997 0.0826 28
                                       0.1306
                                                0.4689
```

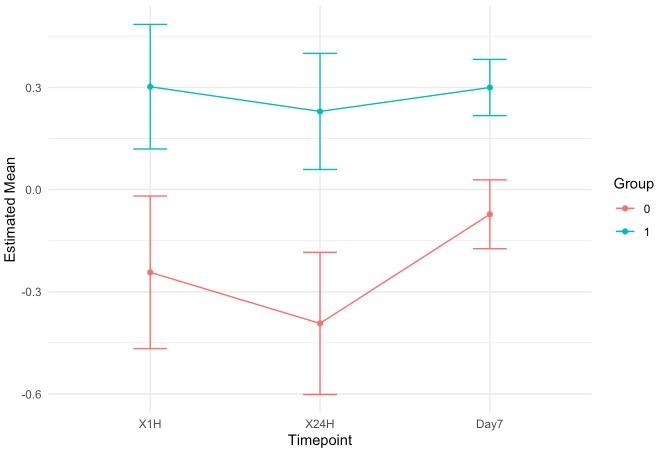




```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.243
## 1 0
                                   0.998
                                             48
## 2 0
           24H
                        -0.393
                                   0.854
                                             48
## 3 0
           Day7
                        -0.0725
                                   0.361
                                             48
## 4 1
           1H
                         0.302
                                   0.871
                                             72
## 5 1
           24H
                         0.230
                                   0.922
                                             72
                                             72
## 6 1
           Day7
                         0.300
                                   0.460
```

```
## ANOVA for Frequency Band: Delta and Measure: S
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sg num Df Error SS den Df F value
                                                          Pr(>F)
## (Intercept)
                   0.0362
                              1
                                  16.282
                                             28 0.0623 0.804789
## Group
                   5.6916
                              1
                                  16.282
                                             28 9.7876 0.004077 **
## timepoint
                  0.5530
                                  18,666
                                             56 0.8295 0.441551
## Group:timepoint 0.2364
                                             56 0.3547 0.702972
                              2
                                  18.666
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                         0.85324 0.11734
## Group:timepoint
                         0.85324 0.11734
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                   0.87202
                              0.4278
## Group:timepoint 0.87202
                              0.6741
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.9250688 0.4337727
## Group:timepoint 0.9250688 0.6865800
   Group timepoint emmean
                               SE df lower.CL upper.CL
          X1H
                   -0.2430 0.2240 28 -0.7019
##
   0
                                                0.2159
##
   1
          X1H
                    0.3021 0.1829 28 -0.0726
                                                0.6768
         X24H
                   -0.3930 0.2088 28 -0.8207
                                                0.0346
##
   0
         X24H
                    0.2296 0.1705 28 -0.1196
                                                0.5787
##
   1
   0
          Day7
                   -0.0725 0.1012 28 -0.2798
                                                0.1347
##
## 1
          Day7
                     0.2997 0.0826 28
                                       0.1306
                                                0.4689
```

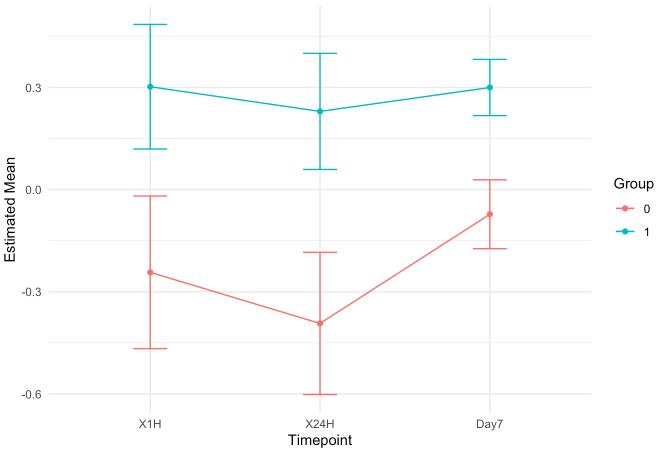




```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.243
## 1 0
                                   0.998
                                             48
## 2 0
           24H
                        -0.393
                                   0.854
                                             48
## 3 0
           Day7
                        -0.0725
                                   0.361
                                             48
## 4 1
           1H
                         0.302
                                   0.871
                                             72
## 5 1
           24H
                         0.230
                                   0.922
                                             72
                                             72
## 6 1
           Day7
                         0.300
                                   0.460
```

```
## ANOVA for Frequency Band: Delta and Measure: TC
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sg num Df Error SS den Df F value
                                                          Pr(>F)
## (Intercept)
                   0.0362
                              1
                                  16.282
                                             28 0.0623 0.804789
## Group
                   5.6916
                              1
                                  16.282
                                             28 9.7876 0.004077 **
## timepoint
                  0.5530
                                  18,666
                                             56 0.8295 0.441551
## Group:timepoint 0.2364
                                             56 0.3547 0.702972
                              2
                                  18.666
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                         0.85324 0.11734
## Group:timepoint
                         0.85324 0.11734
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                   0.87202
                              0.4278
## Group:timepoint 0.87202
                              0.6741
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.9250688 0.4337727
## Group:timepoint 0.9250688 0.6865800
   Group timepoint emmean
                               SE df lower.CL upper.CL
##
          X1H
                   -0.2430 0.2240 28 -0.7019
   0
                                                0.2159
##
   1
          X1H
                    0.3021 0.1829 28 -0.0726
                                                0.6768
         X24H
                   -0.3930 0.2088 28 -0.8207
                                                0.0346
##
   0
         X24H
                    0.2296 0.1705 28 -0.1196
                                                0.5787
##
   1
##
   0
          Day7
                   -0.0725 0.1012 28 -0.2798
                                                0.1347
## 1
          Day7
                     0.2997 0.0826 28
                                       0.1306
                                                0.4689
```





```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.243
## 1 0
                                   0.998
                                             48
## 2 0
           24H
                        -0.393
                                   0.854
                                             48
## 3 0
           Day7
                        -0.0725
                                   0.361
                                             48
## 4 1
           1H
                         0.302
                                   0.871
                                             72
## 5 1
           24H
                         0.230
                                   0.922
                                             72
                                             72
## 6 1
           Day7
                         0.300
                                   0.460
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

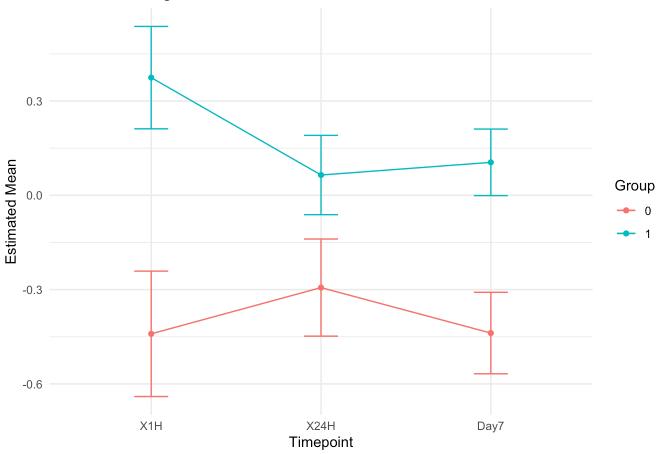
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Gamma and Measure: DTC
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.9487
                              1
                                  11.176
                                             28 2.3769 0.1343714
                                  11.176
## Group
                   7.0691
                                             28 17.7102 0.0002398 ***
## timepoint
                   0.2610
                                  15.858
                                             56 0.4608 0.6331324
## Group:timepoint 0.7610
                                  15.858
                                             56 1.3436 0.2691876
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.94782 0.48508
## Group:timepoint
                          0.94782 0.48508
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                    GG eps Pr(>F[GG])
## timepoint
                   0.95041
                               0.6234
## Group:timepoint 0.95041
                              0.2690
##
##
                    HF eps Pr(>F[HF])
## timepoint
                   1.017729 0.6331324
## Group:timepoint 1.017729 0.2691876
   Group timepoint emmean
                              SE df lower.CL upper.CL
                    -0.4407 0.199 28 -0.8492 -0.0322
##
    0
          X1H
          X1H
                    0.3744 0.163 28 0.0409
                                               0.7080
##
   1
                   -0.2936 0.155 28 -0.6102
##
   0
          X24H
                                               0.0230
          X24H
                    0.0645 0.126 28 -0.1940
                                               0.3230
##
   1
##
   0
          Dav7
                    -0.4382 0.130 28 -0.7037 -0.1727
##
   1
          Day7
                     0.1048 0.106 28 -0.1120
                                              0.3216
##
## Confidence level used: 0.95
```

Estimated Marginal Means for Gamma and DTC



```
## # A tibble: 6 × 5
##
     Group timepoint mean_value sd_value
                                             Ν
##
     <fct> <chr>
                          <dbl>
                                   <dbl> <int>
## 1 0
           1H
                        -0.441
                                   0.952
                                             48
## 2 0
           24H
                        -0.294
                                   0.703
                                            48
## 3 0
                                   0.566
           Day7
                        -0.438
                                            48
                         0.374
## 4 1
           1H
                                   0.669
                                            72
## 5 1
           24H
                         0.0645
                                   0.874
                                            72
## 6 1
           Day7
                         0.105
                                            72
                                   0.649
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

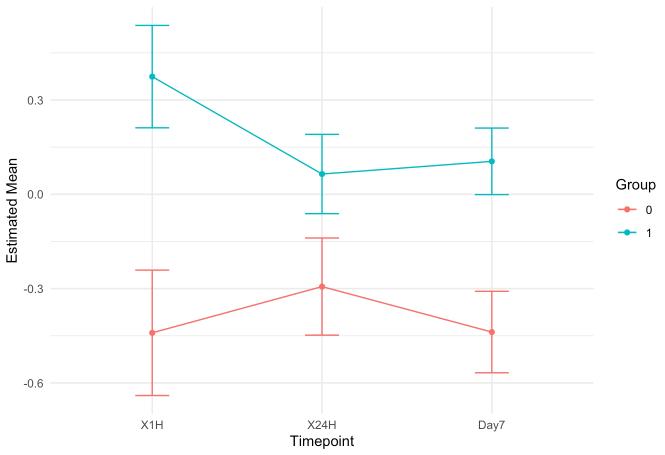
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Gamma and Measure: 0
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.9487
                              1
                                  11.176
                                             28 2.3769 0.1343714
                                  11.176
## Group
                   7.0691
                                             28 17.7102 0.0002398 ***
## timepoint
                   0.2610
                                  15.858
                                             56 0.4608 0.6331324
## Group:timepoint 0.7610
                                  15.858
                                             56 1.3436 0.2691876
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.94782 0.48508
## Group:timepoint
                          0.94782 0.48508
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                    GG eps Pr(>F[GG])
## timepoint
                   0.95041
                               0.6234
## Group:timepoint 0.95041
                              0.2690
##
##
                    HF eps Pr(>F[HF])
## timepoint
                   1.017729 0.6331324
## Group:timepoint 1.017729 0.2691876
   Group timepoint emmean
                              SE df lower.CL upper.CL
                    -0.4407 0.199 28 -0.8492 -0.0322
##
    0
          X1H
          X1H
                    0.3744 0.163 28 0.0409
                                               0.7080
##
   1
                   -0.2936 0.155 28 -0.6102
##
   0
          X24H
                                               0.0230
          X24H
                    0.0645 0.126 28 -0.1940
                                               0.3230
##
   1
##
   0
          Dav7
                    -0.4382 0.130 28 -0.7037 -0.1727
##
   1
          Day7
                     0.1048 0.106 28 -0.1120
                                              0.3216
##
## Confidence level used: 0.95
```

Estimated Marginal Means for Gamma and O



```
## # A tibble: 6 × 5
##
     Group timepoint mean_value sd_value
                                             Ν
##
     <fct> <chr>
                          <dbl>
                                   <dbl> <int>
                                   0.952
## 1 0
           1H
                        -0.441
                                             48
## 2 0
           24H
                        -0.294
                                   0.703
                                            48
## 3 0
                                   0.566
           Day7
                        -0.438
                                            48
                         0.374
## 4 1
           1H
                                   0.669
                                            72
## 5 1
           24H
                         0.0645
                                   0.874
                                            72
## 6 1
           Day7
                         0.105
                                            72
                                   0.649
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

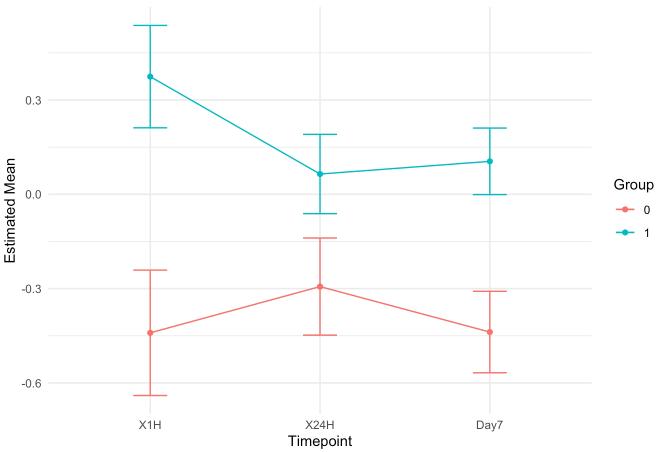
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Gamma and Measure: S
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.9487
                              1
                                  11.176
                                             28 2.3769 0.1343714
                                  11.176
## Group
                   7.0691
                                             28 17.7102 0.0002398 ***
## timepoint
                   0.2610
                                  15.858
                                             56 0.4608 0.6331324
## Group:timepoint 0.7610
                                  15.858
                                             56 1.3436 0.2691876
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.94782 0.48508
## Group:timepoint
                          0.94782 0.48508
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                    GG eps Pr(>F[GG])
## timepoint
                   0.95041
                               0.6234
## Group:timepoint 0.95041
                              0.2690
##
##
                    HF eps Pr(>F[HF])
## timepoint
                   1.017729 0.6331324
## Group:timepoint 1.017729 0.2691876
   Group timepoint emmean
                              SE df lower.CL upper.CL
                    -0.4407 0.199 28 -0.8492 -0.0322
##
    0
          X1H
          X1H
                    0.3744 0.163 28 0.0409
                                               0.7080
##
   1
                   -0.2936 0.155 28 -0.6102
##
   0
          X24H
                                               0.0230
          X24H
                    0.0645 0.126 28 -0.1940
                                               0.3230
##
   1
##
   0
          Dav7
                    -0.4382 0.130 28 -0.7037 -0.1727
##
   1
          Day7
                     0.1048 0.106 28 -0.1120
                                              0.3216
##
## Confidence level used: 0.95
```

Estimated Marginal Means for Gamma and S



```
## # A tibble: 6 × 5
##
     Group timepoint mean_value sd_value
                                             Ν
##
     <fct> <chr>
                          <dbl>
                                   <dbl> <int>
                                   0.952
## 1 0
           1H
                        -0.441
                                             48
## 2 0
           24H
                        -0.294
                                   0.703
                                            48
## 3 0
                                   0.566
           Day7
                        -0.438
                                            48
                         0.374
## 4 1
           1H
                                   0.669
                                            72
## 5 1
           24H
                         0.0645
                                   0.874
                                            72
## 6 1
           Day7
                         0.105
                                            72
                                   0.649
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

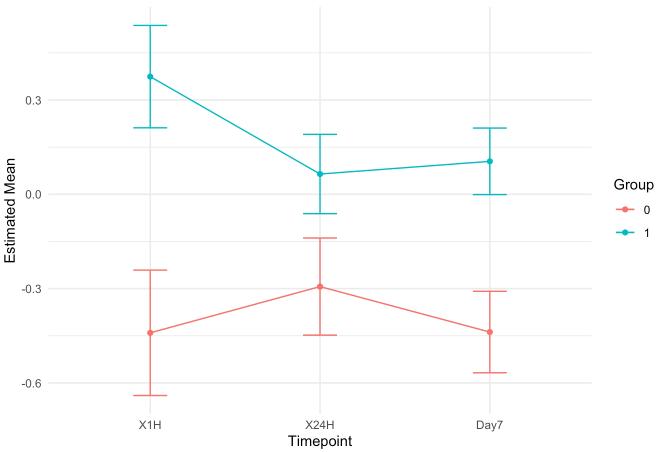
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Gamma and Measure: TC
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.9487
                              1
                                  11.176
                                             28 2.3769 0.1343714
                                  11.176
## Group
                   7.0691
                                             28 17.7102 0.0002398 ***
## timepoint
                   0.2610
                                  15.858
                                             56 0.4608 0.6331324
## Group:timepoint 0.7610
                                  15.858
                                             56 1.3436 0.2691876
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.94782 0.48508
## Group:timepoint
                          0.94782 0.48508
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                    GG eps Pr(>F[GG])
## timepoint
                   0.95041
                               0.6234
## Group:timepoint 0.95041
                              0.2690
##
##
                    HF eps Pr(>F[HF])
## timepoint
                   1.017729 0.6331324
## Group:timepoint 1.017729 0.2691876
   Group timepoint emmean
                              SE df lower.CL upper.CL
                    -0.4407 0.199 28 -0.8492 -0.0322
##
    0
          X1H
          X1H
                    0.3744 0.163 28 0.0409
                                               0.7080
##
   1
                   -0.2936 0.155 28 -0.6102
##
   0
          X24H
                                               0.0230
          X24H
                    0.0645 0.126 28 -0.1940
                                               0.3230
##
   1
##
   0
          Dav7
                    -0.4382 0.130 28 -0.7037 -0.1727
##
   1
          Day7
                     0.1048 0.106 28 -0.1120
                                             0.3216
##
## Confidence level used: 0.95
```

Estimated Marginal Means for Gamma and TC



```
## # A tibble: 6 × 5
##
     Group timepoint mean_value sd_value
                                             Ν
##
     <fct> <chr>
                          <dbl>
                                   <dbl> <int>
## 1 0
           1H
                        -0.441
                                   0.952
                                             48
## 2 0
           24H
                        -0.294
                                   0.703
                                             48
## 3 0
                                   0.566
           Day7
                        -0.438
                                             48
                         0.374
## 4 1
           1H
                                   0.669
                                             72
## 5 1
           24H
                         0.0645
                                   0.874
                                             72
## 6 1
           Day7
                         0.105
                                             72
                                   0.649
```

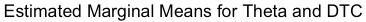
```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

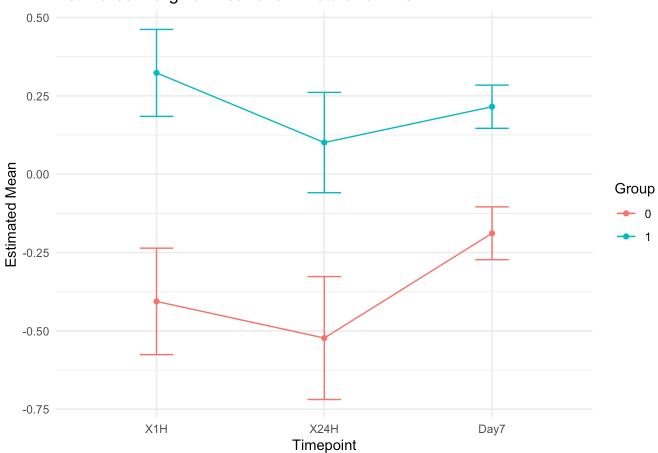
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Theta and Measure: DTC
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                  Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.5480
                              1
                                  11.775
                                             28 1.3031 0.2633220
                                  11.775
## Group
                   7.4058
                              1
                                             28 17,6102 0,0002476 ***
## timepoint
                   0.7876
                                  13.227
                                             56 1.6673 0.1979918
## Group:timepoint 0.3968
                                  13.227
                                             56 0.8400 0.4370584
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                  Test statistic p-value
## timepoint
                         0.98581 0.82448
## Group:timepoint
                          0.98581 0.82448
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                    0.986
                             0.1984
## Group:timepoint 0.986
                             0.4357
##
##
                    HF eps Pr(>F[HF])
## timepoint
                   1.060171 0.1979918
## Group:timepoint 1.060171 0.4370584
   Group timepoint emmean
                              SE df lower.CL upper.CL
##
    0
          X1H
                    -0.406 0.1698 28 -0.7538 -0.0580
          X1H
                    0.323 0.1387 28 0.0392
                                              0.6072
##
   1
##
   0
          X24H
                    -0.523 0.1961 28 -0.9245 -0.1211
          X24H
                    0.101 0.1601 28 -0.2270
                                               0.4290
##
   1
##
   0
          Dav7
                    -0.189 0.0843 28 -0.3613 -0.0158
##
   1
          Day7
                     0.215 0.0688 28
                                      0.0742 0.3563
##
## Confidence level used: 0.95
```





```
## # A tibble: 6 × 5
##
     Group timepoint mean_value sd_value
                                              Ν
##
     <fct> <chr>
                          <dbl>
                                   <dbl> <int>
## 1 0
           1H
                         -0.406
                                   0.862
                                             48
## 2 0
           24H
                         -0.523
                                   1.03
                                             48
## 3 0
                         -0.189
           Day7
                                   0.416
                                             48
                                   0.837
## 4 1
           1H
                          0.323
                                             72
## 5 1
           24H
                                   0.785
                                             72
                          0.101
## 6 1
           Day7
                          0.215
                                   0.473
                                             72
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

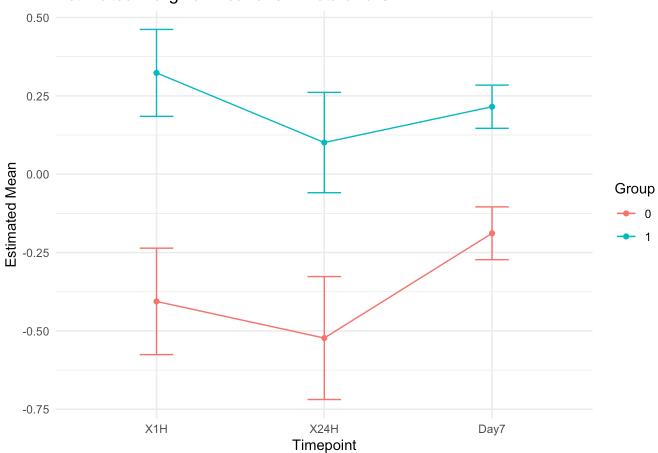
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Theta and Measure: 0
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                  Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.5480
                              1
                                  11.775
                                             28 1.3031 0.2633220
                                  11.775
## Group
                   7.4058
                              1
                                             28 17,6102 0,0002476 ***
## timepoint
                   0.7876
                                  13.227
                                             56 1.6673 0.1979918
## Group:timepoint 0.3968
                                  13.227
                                             56 0.8400 0.4370584
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                  Test statistic p-value
## timepoint
                         0.98581 0.82448
## Group:timepoint
                          0.98581 0.82448
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                    0.986
                             0.1984
## Group:timepoint 0.986
                             0.4357
##
##
                    HF eps Pr(>F[HF])
## timepoint
                   1.060171 0.1979918
## Group:timepoint 1.060171 0.4370584
   Group timepoint emmean
                              SE df lower.CL upper.CL
##
    0
          X1H
                    -0.406 0.1698 28 -0.7538 -0.0580
          X1H
                    0.323 0.1387 28 0.0392
                                              0.6072
##
   1
##
   0
          X24H
                    -0.523 0.1961 28 -0.9245 -0.1211
          X24H
                    0.101 0.1601 28 -0.2270
                                               0.4290
##
   1
##
   0
          Dav7
                    -0.189 0.0843 28 -0.3613 -0.0158
##
   1
          Day7
                     0.215 0.0688 28
                                      0.0742 0.3563
##
## Confidence level used: 0.95
```





```
## # A tibble: 6 × 5
##
     Group timepoint mean_value sd_value
                                             Ν
##
     <fct> <chr>
                          <dbl>
                                   <dbl> <int>
                                   0.862
## 1 0
           1H
                         -0.406
                                             48
## 2 0
           24H
                         -0.523
                                   1.03
                                             48
## 3 0
                                   0.416
                         -0.189
           Day7
                                             48
                                   0.837
## 4 1
           1H
                          0.323
                                             72
## 5 1
           24H
                                   0.785
                                             72
                          0.101
## 6 1
           Day7
                          0.215
                                   0.473
                                             72
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

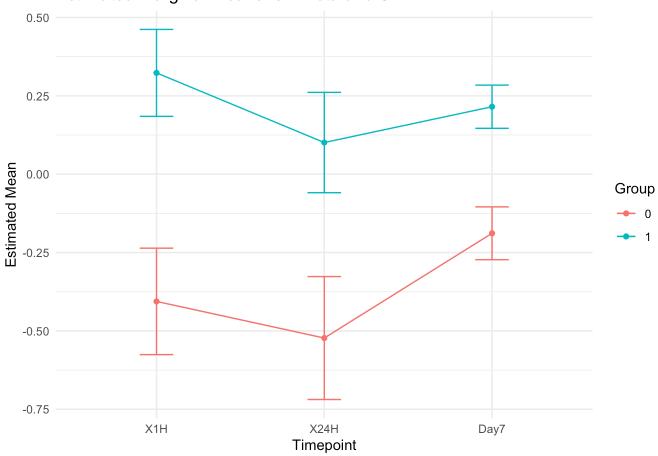
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Theta and Measure: S
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.5480
                              1
                                  11.775
                                             28 1.3031 0.2633220
                                  11.775
## Group
                   7.4058
                              1
                                             28 17,6102 0,0002476 ***
## timepoint
                   0.7876
                                  13.227
                                             56 1.6673 0.1979918
## Group:timepoint 0.3968
                                  13.227
                                             56 0.8400 0.4370584
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                         0.98581 0.82448
## Group:timepoint
                          0.98581 0.82448
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                    0.986
                             0.1984
## Group:timepoint 0.986
                             0.4357
##
##
                    HF eps Pr(>F[HF])
## timepoint
                   1.060171 0.1979918
## Group:timepoint 1.060171 0.4370584
   Group timepoint emmean
                              SE df lower.CL upper.CL
##
    0
          X1H
                    -0.406 0.1698 28 -0.7538 -0.0580
          X1H
                    0.323 0.1387 28 0.0392
                                              0.6072
##
   1
##
   0
          X24H
                    -0.523 0.1961 28 -0.9245 -0.1211
          X24H
                    0.101 0.1601 28 -0.2270
                                               0.4290
##
   1
##
   0
          Dav7
                    -0.189 0.0843 28 -0.3613 -0.0158
##
   1
          Day7
                     0.215 0.0688 28
                                      0.0742 0.3563
##
## Confidence level used: 0.95
```





```
## # A tibble: 6 × 5
##
     Group timepoint mean_value sd_value
                                             Ν
##
     <fct> <chr>
                          <dbl>
                                   <dbl> <int>
                                   0.862
## 1 0
           1H
                         -0.406
                                             48
## 2 0
           24H
                         -0.523
                                   1.03
                                             48
## 3 0
                                   0.416
                         -0.189
           Day7
                                             48
                          0.323
                                   0.837
## 4 1
           1H
                                             72
## 5 1
           24H
                                   0.785
                                             72
                          0.101
## 6 1
           Day7
                          0.215
                                   0.473
                                             72
```

```
## Warning: More than one observation per design cell, aggregating data using `fun_aggregate = mean`.
## To turn off this warning, pass `fun_aggregate = mean` explicitly.
```

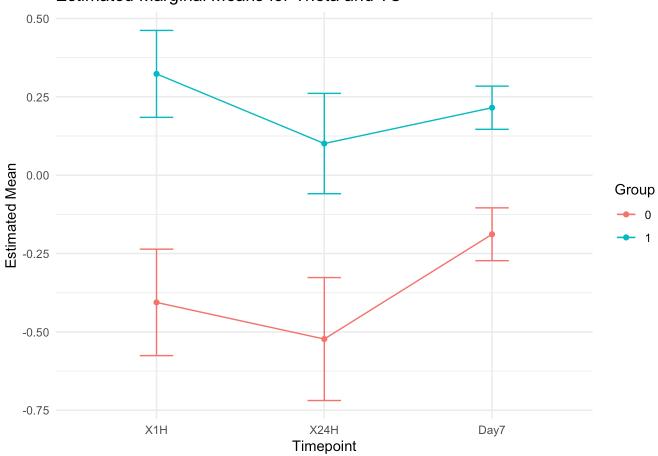
```
## Contrasts set to contr.sum for the following variables: Group
```

```
## ANOVA for Frequency Band: Theta and Measure: TC
```

```
## Warning in summary.Anova.mlm(object$Anova, multivariate = FALSE): HF eps > 1
## treated as 1
```

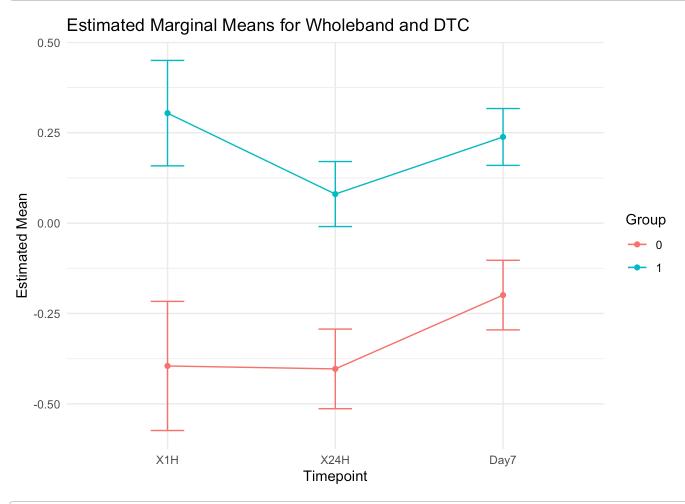
```
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                  Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.5480
                              1
                                  11.775
                                             28 1.3031 0.2633220
                                  11.775
## Group
                   7.4058
                              1
                                             28 17,6102 0,0002476 ***
## timepoint
                   0.7876
                                  13.227
                                             56 1.6673 0.1979918
## Group:timepoint 0.3968
                                  13.227
                                             56 0.8400 0.4370584
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                  Test statistic p-value
## timepoint
                         0.98581 0.82448
## Group:timepoint
                          0.98581 0.82448
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                   GG eps Pr(>F[GG])
## timepoint
                    0.986
                             0.1984
## Group:timepoint 0.986
                             0.4357
##
##
                    HF eps Pr(>F[HF])
## timepoint
                   1.060171 0.1979918
## Group:timepoint 1.060171 0.4370584
   Group timepoint emmean
                              SE df lower.CL upper.CL
##
    0
          X1H
                    -0.406 0.1698 28 -0.7538 -0.0580
          X1H
                    0.323 0.1387 28 0.0392
                                              0.6072
##
   1
##
   0
          X24H
                    -0.523 0.1961 28 -0.9245 -0.1211
          X24H
                    0.101 0.1601 28 -0.2270
                                               0.4290
##
   1
##
   0
          Dav7
                    -0.189 0.0843 28 -0.3613 -0.0158
##
   1
          Day7
                     0.215 0.0688 28
                                      0.0742 0.3563
##
## Confidence level used: 0.95
```





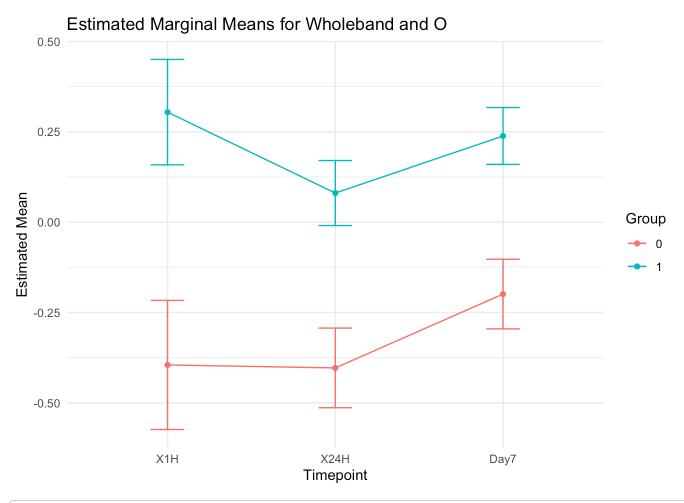
```
## # A tibble: 6 × 5
##
     Group timepoint mean_value sd_value
                                              Ν
##
     <fct> <chr>
                          <dbl>
                                   <dbl> <int>
## 1 0
           1H
                         -0.406
                                   0.862
                                             48
## 2 0
           24H
                         -0.523
                                   1.03
                                             48
## 3 0
                         -0.189
           Day7
                                   0.416
                                             48
                                   0.837
## 4 1
           1H
                          0.323
                                             72
## 5 1
           24H
                                   0.785
                                             72
                          0.101
## 6 1
           Day7
                          0.215
                                   0.473
                                             72
```

```
## ANOVA for Frequency Band: Wholeband and Measure: DTC
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.3363
                              1
                                  9.4920
                                             28 0.9921 0.3277541
## Group
                   6.3046
                              1
                                  9.4920
                                             28 18.5976 0.0001809 ***
## timepoint
                   0.4848
                                  8.4237
                                             56 1.6115 0.2087054
                                             56 0.9357 0.3983388
## Group:timepoint 0.2815
                                  8.4237
                              2
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.81286 0.060987
## Group:timepoint
                         0.81286 0.060987
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                    GG eps Pr(>F[GG])
## timepoint
                   0.84236
                              0.2127
## Group:timepoint 0.84236
                              0.3852
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.8903013 0.2115779
## Group:timepoint 0.8903013 0.3895023
   Group timepoint emmean
                                SE df lower.CL upper.CL
          X1H
##
   0
                    -0.3951 0.1786 28 -0.76106 -0.02922
                    0.3043 0.1459 28 0.00557 0.60312
##
   1
          X1H
         X24H
                    -0.4033 0.1102 28 -0.62902 -0.17766
##
   0
         X24H
                    0.0805 0.0900 28 -0.10382 0.26472
##
   1
   0
          Day7
                   -0.1991 0.0963 28 -0.39632 -0.00184
##
## 1
          Day7
                     0.2384 0.0786 28 0.07737 0.39946
```



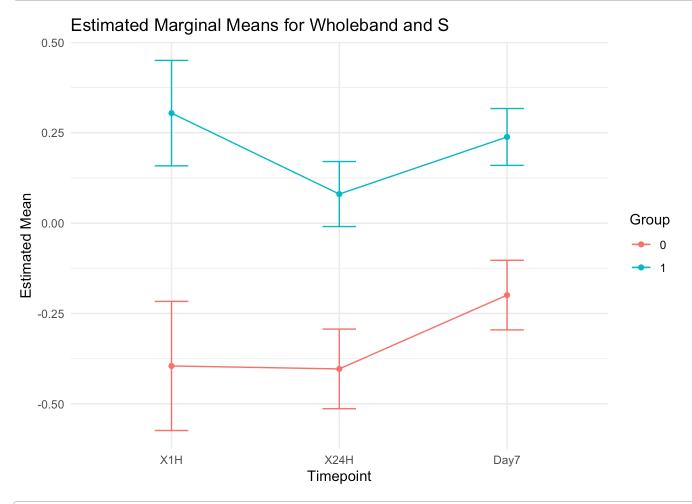
```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.395
## 1 0
                                   0.833
                                             48
## 2 0
           24H
                        -0.403
                                   0.685
                                             48
## 3 0
           Day7
                        -0.199
                                   0.415
                                             48
## 4 1
           1H
                         0.304
                                   0.790
                                             72
## 5 1
           24H
                         0.0805
                                   0.503
                                             72
                                             72
## 6 1
           Day7
                         0.238
                                    0.505
```

```
## ANOVA for Frequency Band: Wholeband and Measure: 0
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.3363
                              1
                                  9.4920
                                             28 0.9921 0.3277541
## Group
                   6.3046
                              1
                                  9.4920
                                             28 18.5976 0.0001809 ***
## timepoint
                   0.4848
                                  8.4237
                                             56 1.6115 0.2087054
                                             56 0.9357 0.3983388
## Group:timepoint 0.2815
                                  8.4237
                              2
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.81286 0.060987
## Group:timepoint
                         0.81286 0.060987
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                    GG eps Pr(>F[GG])
## timepoint
                   0.84236
                              0.2127
## Group:timepoint 0.84236
                              0.3852
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.8903013 0.2115779
## Group:timepoint 0.8903013 0.3895023
   Group timepoint emmean
                                SE df lower.CL upper.CL
##
          X1H
   0
                    -0.3951 0.1786 28 -0.76106 -0.02922
                    0.3043 0.1459 28 0.00557 0.60312
##
   1
          X1H
         X24H
                    -0.4033 0.1102 28 -0.62902 -0.17766
##
   0
         X24H
                    0.0805 0.0900 28 -0.10382 0.26472
##
   1
   0
          Day7
                   -0.1991 0.0963 28 -0.39632 -0.00184
##
## 1
          Day7
                     0.2384 0.0786 28 0.07737 0.39946
```



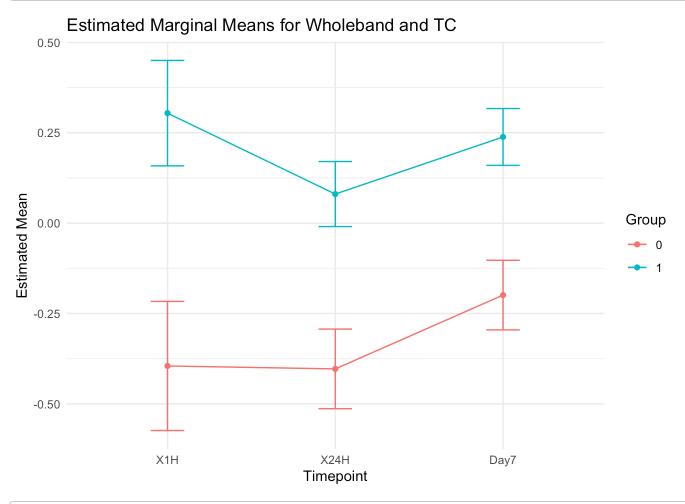
```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.395
## 1 0
                                   0.833
                                             48
## 2 0
           24H
                        -0.403
                                   0.685
                                             48
## 3 0
           Day7
                        -0.199
                                   0.415
                                             48
## 4 1
           1H
                         0.304
                                   0.790
                                             72
## 5 1
           24H
                         0.0805
                                   0.503
                                             72
                                             72
## 6 1
           Day7
                         0.238
                                    0.505
```

```
## ANOVA for Frequency Band: Wholeband and Measure: S
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.3363
                              1
                                  9.4920
                                             28 0.9921 0.3277541
## Group
                   6.3046
                              1
                                   9.4920
                                             28 18.5976 0.0001809 ***
## timepoint
                   0.4848
                                  8.4237
                                             56 1.6115 0.2087054
                                             56 0.9357 0.3983388
## Group:timepoint 0.2815
                                  8.4237
                              2
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.81286 0.060987
## Group:timepoint
                         0.81286 0.060987
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                    GG eps Pr(>F[GG])
## timepoint
                   0.84236
                              0.2127
## Group:timepoint 0.84236
                              0.3852
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.8903013 0.2115779
## Group:timepoint 0.8903013 0.3895023
   Group timepoint emmean
                                SE df lower.CL upper.CL
##
          X1H
   0
                    -0.3951 0.1786 28 -0.76106 -0.02922
                    0.3043 0.1459 28 0.00557 0.60312
##
   1
          X1H
         X24H
                    -0.4033 0.1102 28 -0.62902 -0.17766
##
   0
         X24H
                    0.0805 0.0900 28 -0.10382 0.26472
##
   1
   0
          Day7
                   -0.1991 0.0963 28 -0.39632 -0.00184
##
## 1
          Day7
                     0.2384 0.0786 28 0.07737 0.39946
```



```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.395
## 1 0
                                   0.833
                                             48
## 2 0
           24H
                        -0.403
                                   0.685
                                             48
## 3 0
           Day7
                        -0.199
                                   0.415
                                             48
## 4 1
           1H
                         0.304
                                   0.790
                                             72
## 5 1
           24H
                         0.0805
                                   0.503
                                             72
                                             72
## 6 1
           Day7
                         0.238
                                    0.505
```

```
## ANOVA for Frequency Band: Wholeband and Measure: TC
##
## Univariate Type III Repeated-Measures ANOVA Assuming Sphericity
##
##
                   Sum Sq num Df Error SS den Df F value
                                                           Pr(>F)
## (Intercept)
                   0.3363
                              1
                                  9.4920
                                             28 0.9921 0.3277541
## Group
                   6.3046
                              1
                                  9.4920
                                             28 18.5976 0.0001809 ***
## timepoint
                   0.4848
                                  8.4237
                                             56 1.6115 0.2087054
                                             56 0.9357 0.3983388
## Group:timepoint 0.2815
                                  8.4237
                              2
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
##
## Mauchly Tests for Sphericity
##
##
                   Test statistic p-value
## timepoint
                          0.81286 0.060987
## Group:timepoint
                         0.81286 0.060987
##
##
## Greenhouse-Geisser and Huynh-Feldt Corrections
   for Departure from Sphericity
##
##
                    GG eps Pr(>F[GG])
## timepoint
                   0.84236
                              0.2127
## Group:timepoint 0.84236
                              0.3852
##
##
                     HF eps Pr(>F[HF])
## timepoint
                   0.8903013 0.2115779
## Group:timepoint 0.8903013 0.3895023
   Group timepoint emmean
                                SE df lower.CL upper.CL
##
          X1H
   0
                    -0.3951 0.1786 28 -0.76106 -0.02922
                    0.3043 0.1459 28 0.00557 0.60312
##
   1
          X1H
         X24H
                    -0.4033 0.1102 28 -0.62902 -0.17766
##
   0
         X24H
                    0.0805 0.0900 28 -0.10382 0.26472
##
   1
   0
          Day7
                   -0.1991 0.0963 28 -0.39632 -0.00184
##
## 1
          Day7
                     0.2384 0.0786 28 0.07737 0.39946
```



```
## # A tibble: 6 × 5
     Group timepoint mean_value sd_value
                                              Ν
     <fct> <chr>
                          <dbl>
##
                                   <dbl> <int>
           1H
                        -0.395
## 1 0
                                   0.833
                                             48
## 2 0
           24H
                        -0.403
                                   0.685
                                             48
## 3 0
           Day7
                        -0.199
                                   0.415
                                             48
## 4 1
           1H
                         0.304
                                   0.790
                                             72
## 5 1
           24H
                         0.0805
                                   0.503
                                             72
                                             72
## 6 1
           Day7
                         0.238
                                    0.505
```