Fitbit & ET Glasses - Methods

Initial Preparations

Run following Code only if new data is added to the initial data.

FitBit

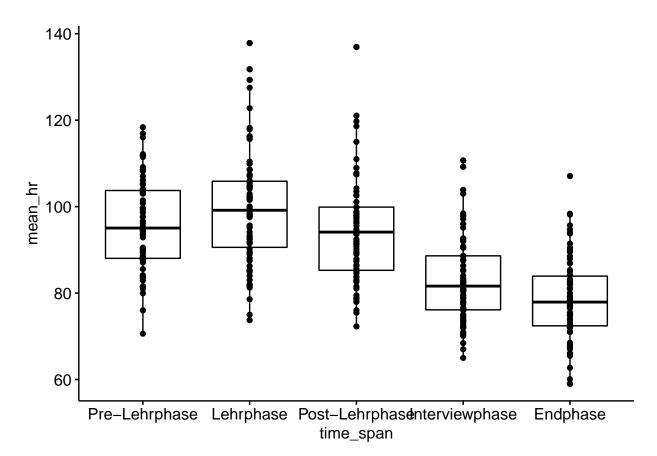
All participants were given a FitBit Smart Watch to wear during the experiment.

Heart Rate

The heart rate of each participant were measured during the experiment.

Repeated Measures ANOVA

```
## New names:
## 'summarise()' has grouped output by 'ID'. You can override using the '.groups'
## argument.
## * ' ' -> ' ... 5 '
## * '' -> '...6'
## * '' -> '...7'
  * ' ' -> ' ... 8 '
## * '' -> '...9'
## * '' -> '...10'
##
##
                       Lehrphase Post-Lehrphase Interviewphase
    Pre-Lehrphase
                                                                       Endphase
##
                               70
                                                                             70
##
##
   Descriptive statistics by group
## group: Pre-Lehrphase
##
      vars n mean
                      sd median trimmed
                                                         max range skew kurtosis
                                           \mathtt{mad}
                                                 \min
         1 70 95.8 10.55 95.05
                                   95.63 11.79 70.61 118.36 47.75 0.08
## X1
##
## group: Lehrphase
      vars n mean
                       sd median trimmed mad
                                                  min
                                                         max range skew kurtosis
         1 70 99.73 13.43 99.16 98.96 11.47 73.74 137.85 64.11 0.52
## X1
##
        se
```



```
## data: df_anova_subset$mean_hr and df_anova_subset$time_span
##
##
                 Pre-Lehrphase Lehrphase Post-Lehrphase Interviewphase
                 0.079
## Lehrphase
## Post-Lehrphase 0.484
                               0.024
## Interviewphase 5.7e-10
                               7.8e-16
                                         2.8e-08
                 < 2e-16
                               < 2e-16 1.7e-14
## Endphase
                                                        0.063
##
## P value adjustment method: holm
                                eta.sq eta.sq.part
## df_anova_subset$time_span 0.3413791
                                        0.3413791
Multiple Regression
## Adding missing grouping variables: 'ID'
## Warning: In lm.fit(x, y, offset = offset, singular.ok = singular.ok, ...) :
## zusätzliches Argument 'family' wird verworfen
##
## Call:
## lm(formula = mean_hr ~ mean_confi + mean_disrup + mean_te, data = df_lm_subset,
##
       family = binomial)
##
## Residuals:
##
      Min
               1Q Median
                               3Q
                                      Max
## -27.720 -8.310 0.369
                           7.579 38.306
##
## Coefficients:
##
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) 118.72841
                          14.89970 7.969 3.01e-11 ***
## mean_confi
                           1.49211 -0.951
              -1.41971
                                              0.345
## mean_disrup -1.49985
                           1.42931 -1.049
                                               0.298
## mean_te
               -0.02287
                            0.19572 -0.117
                                              0.907
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 13.56 on 66 degrees of freedom
## Multiple R-squared: 0.02604,
                                   Adjusted R-squared:
                                                        -0.01823
## F-statistic: 0.5882 on 3 and 66 DF, p-value: 0.6249
##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac
## % Date and time: So, Feb 19, 2023 - 20:06:19
## \begin{table}[!htbp] \centering
##
     \caption{}
    \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## & \multicolumn{1}{c}{\textit{Dependent variable:}} \\
```

```
## \cline{2-2}
## \\[-1.8ex] & mean\_hr \\
## \hline \\[-1.8ex]
## mean\_confi & $-$1.420 \\
   & (1.492) \\
##
##
   & \\
## mean\_disrup & $-$1.500 \\
   & (1.429) \\
##
##
    & \\
## mean\_te & $-$0.023 \\
## & (0.196) \\
##
   & \\
## Constant & 118.728$^{***}$ \\
## & (14.900) \\
## & \\
## \hline \\[-1.8ex]
## Observations & 70 \\
## R$^{2}$ & 0.026 \\
## Adjusted R$^{2}$ & $-$0.018 \
## Residual Std. Error & 13.557 (df = 66) \\
## F Statistic & 0.588 (df = 3; 66) \\
## \hline
## \hline \\[-1.8ex]
## \textit{Note:} & \multicolumn{1}{r}{$^{*}}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
## \end{tabular}
## \end{table}
```