# Hypothesis Testing for NSF Office Stress Project - Full Sensor Set

Below are the test results for each of the Conditions that had  $n \ge 7$  subjects. Statistical testing can have three different possible outcomes: the data is already normal (t-test), the logarithm of the data is normal (t-test with log data), or the data is NOT normal (Wilcoxon test).

For notation, let:

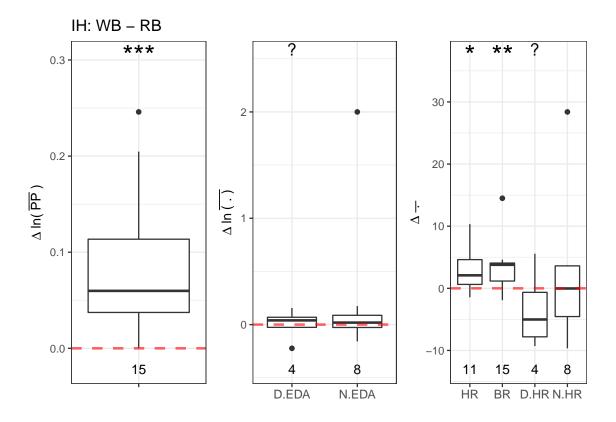
```
WB-RB = Writing Baseline - Resting Baseline
SC-RB = Stress Condition - Resting Baseline
SC-WB = Stress Condition - Writing Baseline
DT-RB = Dual Task - Resting Baseline
DT-WB = Dual Task - Writing Baseline
DT-SC = Dual Task - Stress Condition
P-RB = Presentation - Resting Baseline
P-WB = Presentation - Writing Baseline
P-SC = Presentation - Stress Condition
P-DT = Presentation - Dual Task
```

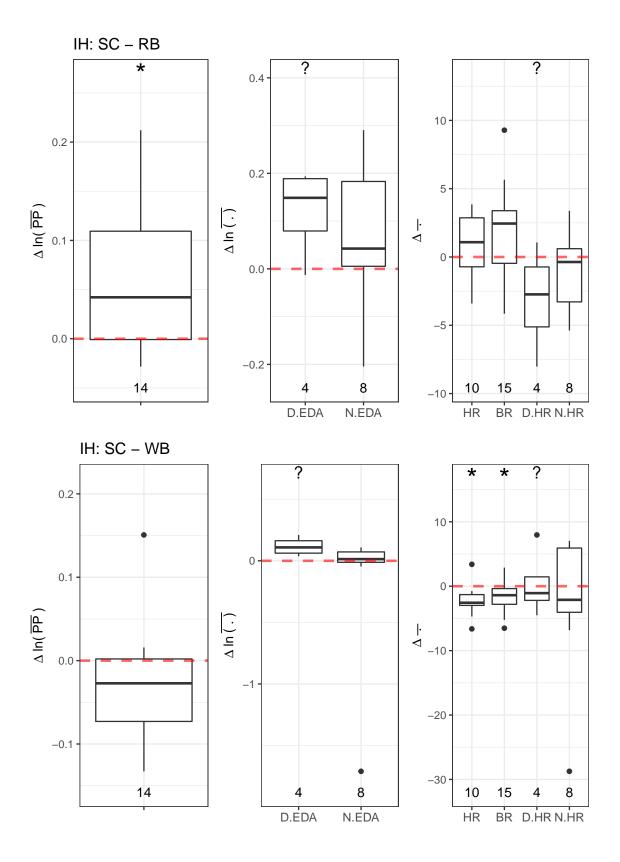
For each of the graphs, let:

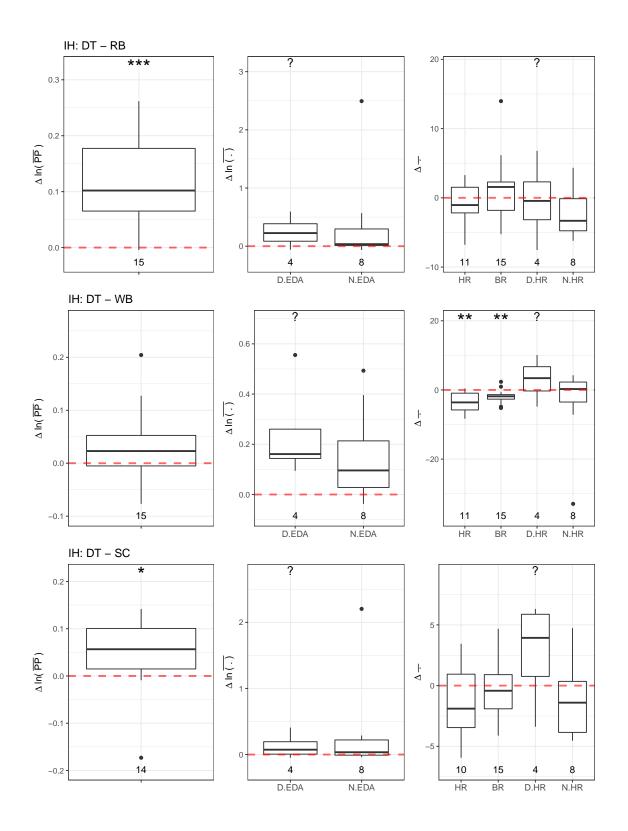
```
 ** = 0.01 
<math display="block"> ** = 0.001 
<math display="block"> *** = p <= 0.001 
 ? = Did not run statistical test (n < 7)
```

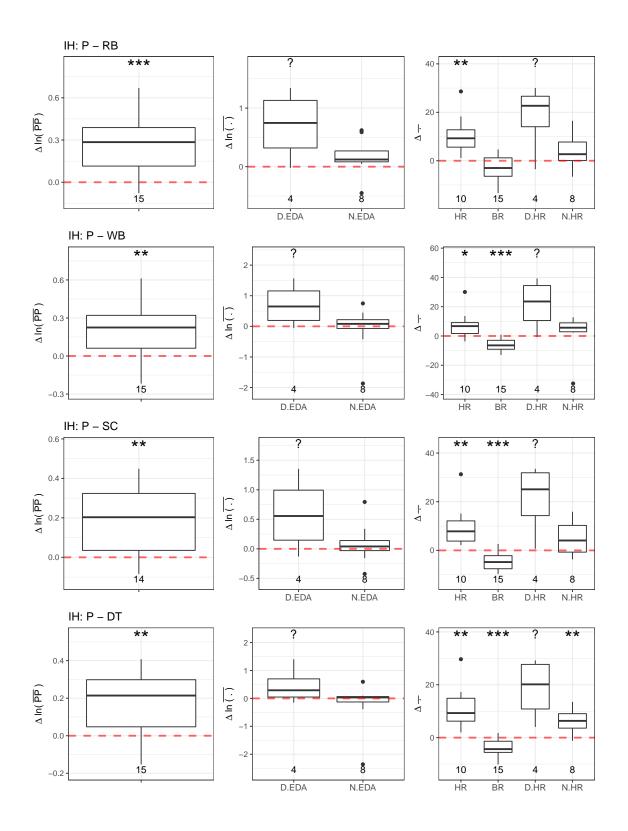
Intermittent-High (IH)

# Sensor Channels per Activity

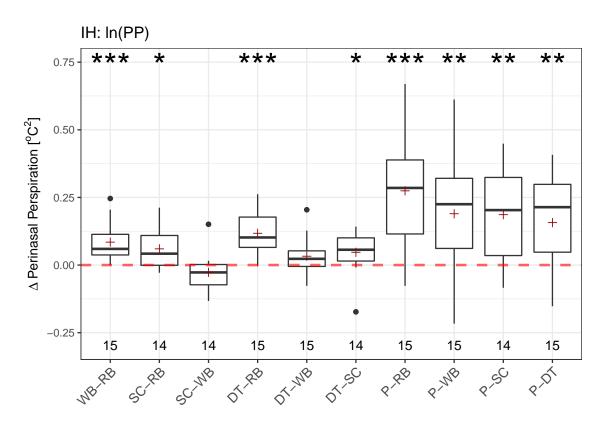






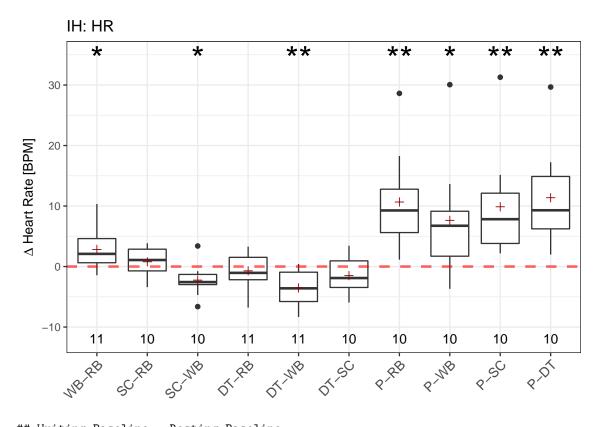


### Sensor Channel across Activities



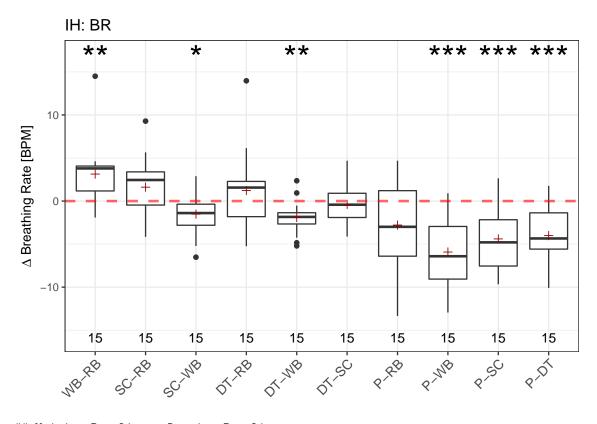
```
## In the following tests, we applied ln(PP).
##
## Writing Baseline - Resting Baseline
## Transformed t-test p = 5e-04 < 0.001
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.0123 < 0.05 *
## StressCondition - Writing Baseline
## Transformed t-test p = 0.1695 > 0.05
## Dual Task - Resting Baseline
## Transformed t-test p = 0 < 0.001 ***
##
## Dual Task - Writing Baseline
## Transformed t-test p = 0.1077 > 0.05
## Dual Task - Stress Condition
## Transformed t-test p = 0.0438 < 0.05 *
## Presentation - Resting Baseline
## Transformed t-test p = 2e-04 < 0.001 ***
##
```

```
## Presentation - Writing Baseline
## Transformed t-test p = 0.0036 < 0.01 **
##
## Presentation - Stress Condition
## Transformed t-test p = 0.0016 < 0.01 **
##
## Presentation - Dual Task
## Transformed t-test p = 0.0049 < 0.01 **</pre>
```



```
## Writing Baseline - Resting Baseline
## t-test p = 0.0188 < 0.05 *
##
## Stress Condition - Resting Baseline
## t-test p = 0.3553 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0243 < 0.05 *
## Dual Task - Resting Baseline
## t-test p = 0.4335 > 0.05
## Dual Task - Writing Baseline
## t-test p = 0.0036 < 0.01 **
##
## Dual Task - Stress Condition
## t-test p = 0.1614 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0.0024 < 0.01 **
## Presentation - Writing Baseline
## t-test p = 0.0289 < 0.05 *
## Presentation - Stress Condition
```

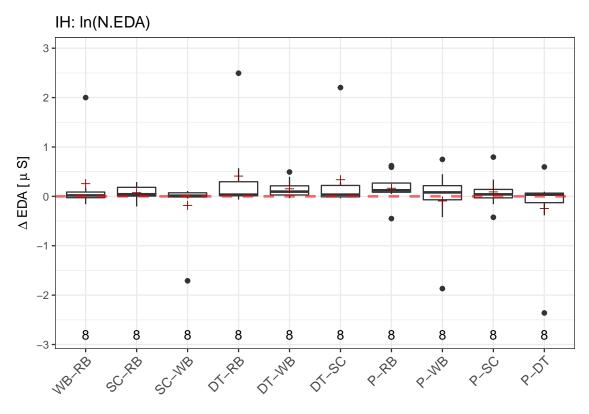
```
## t-test p = 0.0063 < 0.01 **
##
## Presentation - Dual Task
## t-test p = 0.0015 < 0.01 **</pre>
```



```
## Writing Baseline - Resting Baseline
## t-test p = 0.0075 < 0.01 **
##
## Stress Condition - Resting Baseline
## t-test p = 0.1189 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0318 < 0.05 *
## Dual Task - Resting Baseline
## t-test p = 0.3323 > 0.05
## Dual Task - Writing Baseline
## t-test p = 0.0023 < 0.01 **
##
## Dual Task - Stress Condition
## t-test p = 0.5106 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0.0545 > 0.05
## Presentation - Writing Baseline
## t-test p = 1e-04 < 0.001 ***
## Presentation - Stress Condition
```

```
## t-test p = 4e-04 < 0.001 ***
##
## Presentation - Dual Task
## t-test p = 5e-04 < 0.001 ***</pre>
```

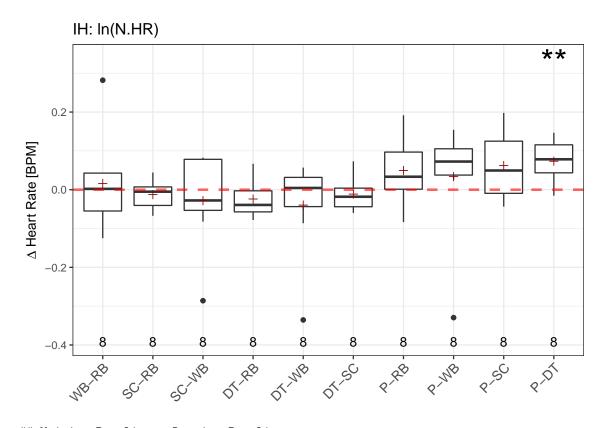
 $\mbox{\tt \#\#}$  IH has LESS than 7 subjects for D.EDA. Cannot continue with test.  $\mbox{\tt \#\#}$  -----



```
## In the following tests, we applied ln(N.EDA).
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.3403 > 0.05
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.243 > 0.05
## StressCondition - Writing Baseline
## Transformed t-test p = 0.4308 > 0.05
## Dual Task - Resting Baseline
## Transformed t-test p = 0.2214 > 0.05
## Dual Task - Writing Baseline
## Transformed t-test p = 0.0592 > 0.05
## Dual Task - Stress Condition
## Transformed t-test p = 0.2522 > 0.05
##
## Presentation - Resting Baseline
## Transformed t-test p = 0.2098 > 0.05
## Presentation - Writing Baseline
## Transformed t-test p = 0.7495 > 0.05
```

```
##
## Presentation - Stress Condition
## Transformed t-test p = 0.5001 > 0.05
##
## Presentation - Dual Task
## Transformed t-test p = 0.4611 > 0.05
```

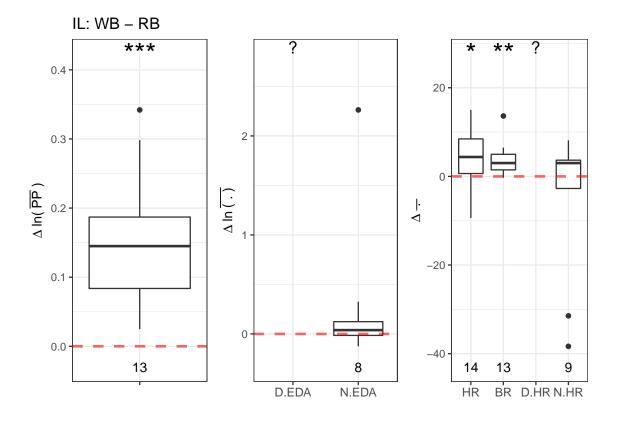
 $\mbox{\tt \#\#}$  IH has LESS than 7 subjects for D.HR. Cannot continue with test.  $\mbox{\tt \#\#}$  -----

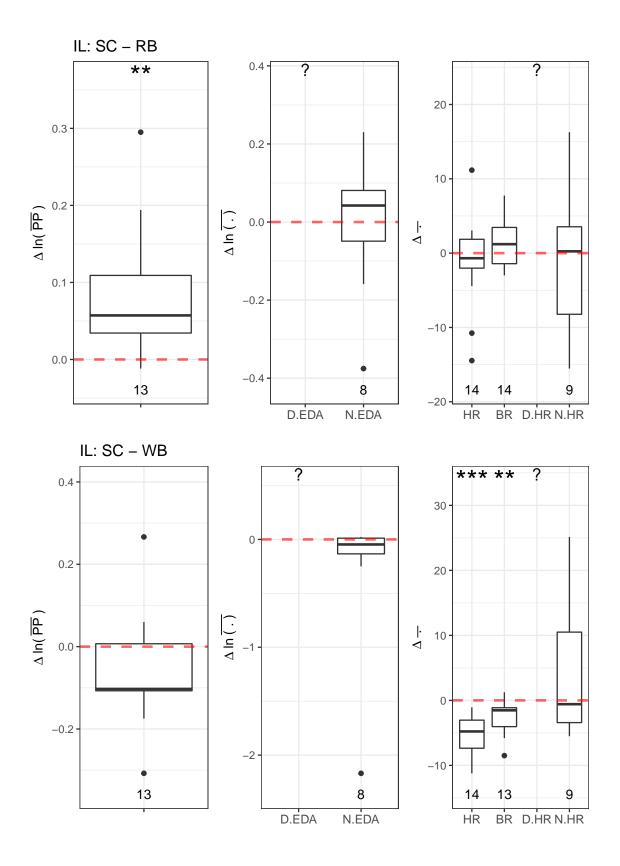


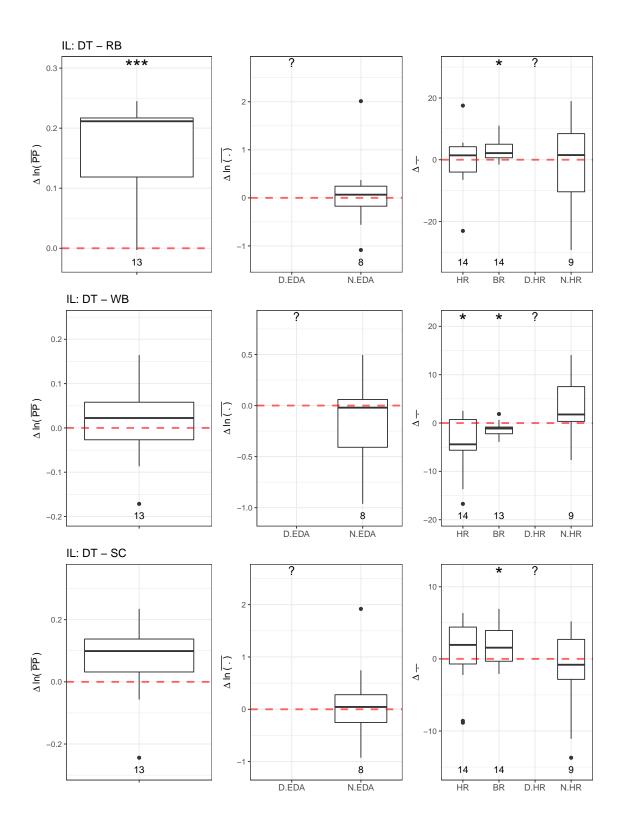
```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.7304 > 0.05
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.3455 > 0.05
##
## StressCondition - Writing Baseline
## Transformed t-test p = 0.5336 > 0.05
## Dual Task - Resting Baseline
## Transformed t-test p = 0.2237 > 0.05
## Dual Task - Writing Baseline
## Transformed t-test p = 0.409 > 0.05
##
## Dual Task - Stress Condition
## Transformed t-test p = 0.492 > 0.05
##
## Presentation - Resting Baseline
## Transformed t-test p = 0.1963 > 0.05
## Presentation - Writing Baseline
## Transformed t-test p = 0.5533 > 0.05
## Presentation - Stress Condition
```

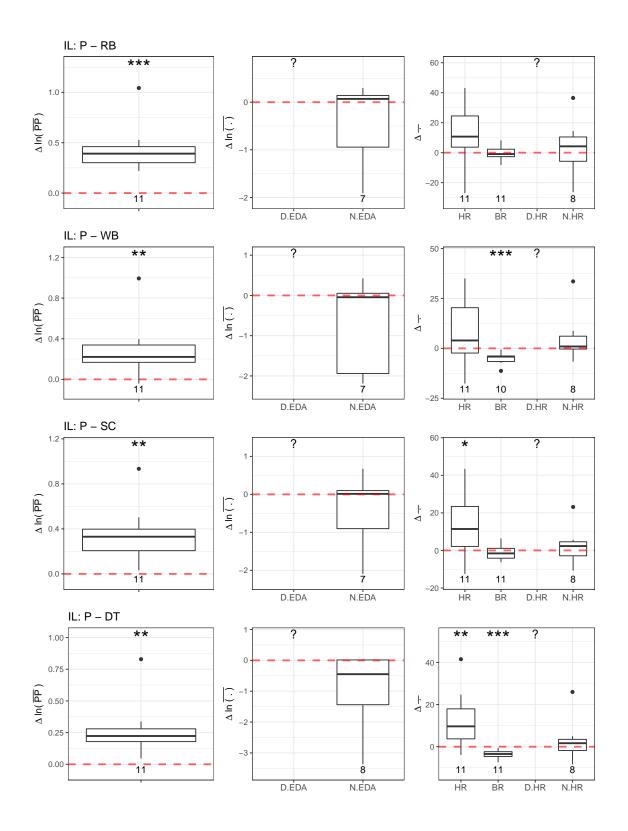
Intermittent-Low (IL)

# Sensor Channels per Activity

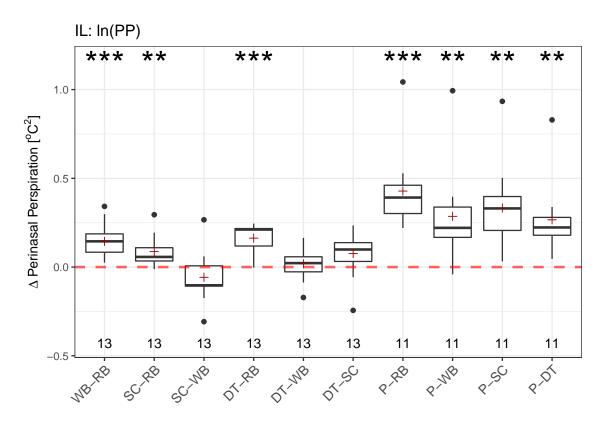






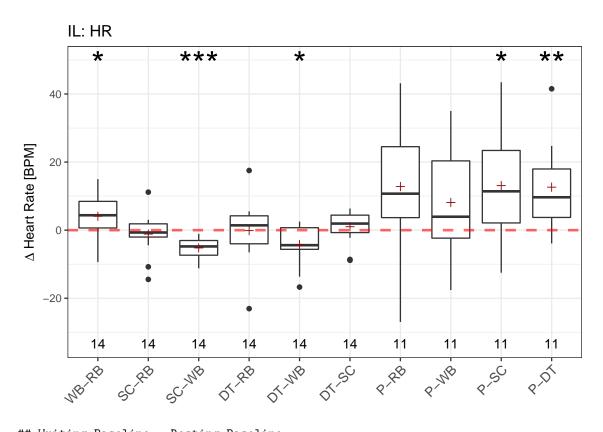


### Sensor Channel across Activities



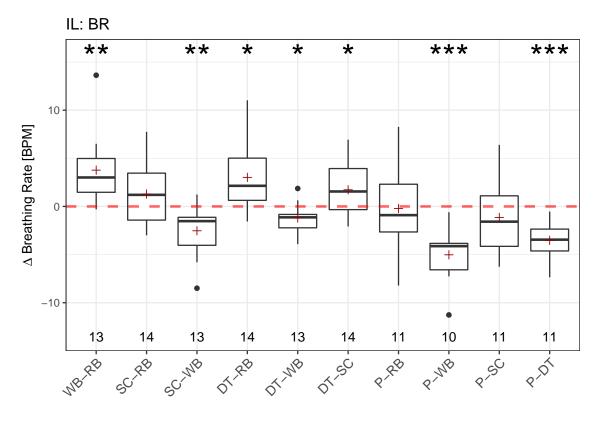
```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 2e-04 < 0.001
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.0048 < 0.01 **
## StressCondition - Writing Baseline
## Transformed t-test p = 0.1501 > 0.05
##
## Dual Task - Resting Baseline
## Transformed t-test p = 0 < 0.001 ***
## Dual Task - Writing Baseline
## Transformed t-test p = 0.4898 > 0.05
## Dual Task - Stress Condition
## Transformed t-test p = 0.0502 > 0.05
## Presentation - Resting Baseline
## Transformed t-test p = 1e-04 < 0.001 ***
##
## Presentation - Writing Baseline
## Transformed t-test p = 0.0054 < 0.01 **
```

```
##
## Presentation - Stress Condition
## Transformed t-test p = 0.0012 < 0.01 **
##
## Presentation - Dual Task
## Transformed t-test p = 0.0016 < 0.01 **</pre>
```



```
## Writing Baseline - Resting Baseline
## t-test p = 0.0318 < 0.05 *
##
## Stress Condition - Resting Baseline
## t-test p = 0.4931 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0 < 0.001 ***
## Dual Task - Resting Baseline
## t-test p = 0.9564 > 0.05
## Dual Task - Writing Baseline
## t-test p = 0.0154 < 0.05 *
##
## Dual Task - Stress Condition
## t-test p = 0.4432 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0.0552 > 0.05
## Presentation - Writing Baseline
## t-test p = 0.1202 > 0.05
## Presentation - Stress Condition
```

```
## t-test p = 0.0209 < 0.05 *
##
## Presentation - Dual Task
## t-test p = 0.0094 < 0.01 **</pre>
```

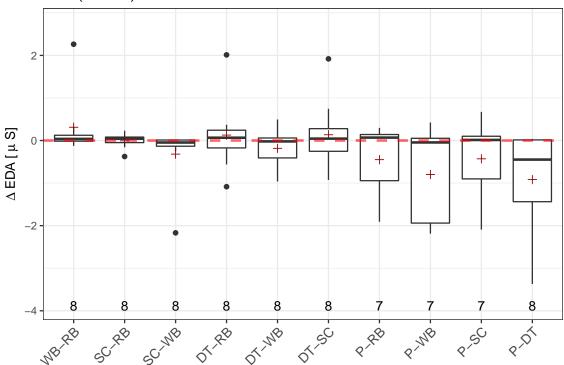


```
## Writing Baseline - Resting Baseline
## t-test p = 0.0029 < 0.01 **
##
## Stress Condition - Resting Baseline
## t-test p = 0.1716 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0057 < 0.01 **
## Dual Task - Resting Baseline
## t-test p = 0.011 < 0.05 *
## Dual Task - Writing Baseline
## t-test p = 0.0141 < 0.05 *
##
## Dual Task - Stress Condition
## t-test p = 0.0397 < 0.05 *
##
## Presentation - Resting Baseline
## t-test p = 0.8862 > 0.05
## Presentation - Writing Baseline
## t-test p = 4e-04 < 0.001 ***
## Presentation - Stress Condition
```

```
## t-test p = 0.3486 > 0.05
##
## Presentation - Dual Task
## t-test p = 2e-04 < 0.001 ***</pre>
```

 $\mbox{\tt \#\#}$  IL has LESS than 7 subjects for D.EDA. Cannot continue with test.  $\mbox{\tt \#\#}$  -----

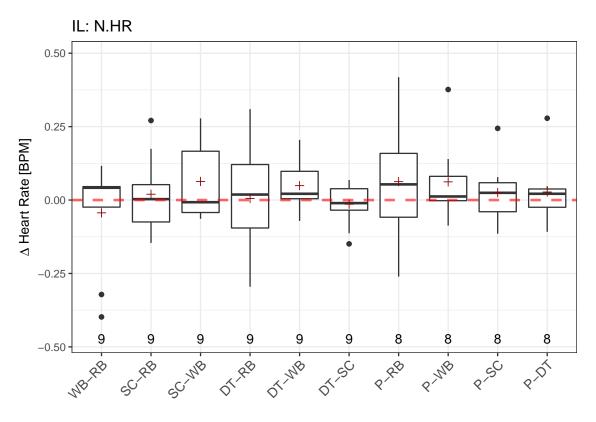




```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.3071 > 0.05
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.9091 > 0.05
##
## StressCondition - Writing Baseline
## Transformed t-test p = 0.2689 > 0.05
## Dual Task - Resting Baseline
## Transformed t-test p = 0.6976 > 0.05
## Dual Task - Writing Baseline
## Transformed t-test p = 0.3365 > 0.05
##
## Dual Task - Stress Condition
## Transformed t-test p = 0.6807 > 0.05
##
## Presentation - Resting Baseline
## Transformed t-test p = 0.273 > 0.05
## Presentation - Writing Baseline
## Transformed t-test p = 0.119 > 0.05
## Presentation - Stress Condition
```

```
## Transformed t-test p = 0.3207 > 0.05 ## ## Presentation - Dual Task ## Transformed t-test p = 0.0707 > 0.05
```

 $\mbox{\tt \#\#}$  IL has LESS than 7 subjects for D.HR. Cannot continue with test.  $\mbox{\tt \#\#}$  -----



```
## Writing Baseline - Resting Baseline
## Wilcoxon p = 0.8203 > 0.05
## Stress Condition - Resting Baseline
## Wilcoxon p = 0.8203 > 0.05
##
## StressCondition - Writing Baseline
## Wilcoxon p = 0.4258 > 0.05
## Dual Task - Resting Baseline
## Wilcoxon p = 0.7344 > 0.05
## Dual Task - Writing Baseline
## Wilcoxon p = 0.2031 > 0.05
##
## Dual Task - Stress Condition
## Wilcoxon p = 0.9102 > 0.05
##
## Presentation - Resting Baseline
## Wilcoxon p = 0.4609 > 0.05
## Presentation - Writing Baseline
## Wilcoxon p = 0.3125 > 0.05
## Presentation - Stress Condition
```

```
## Wilcoxon p = 0.7422 > 0.05
```

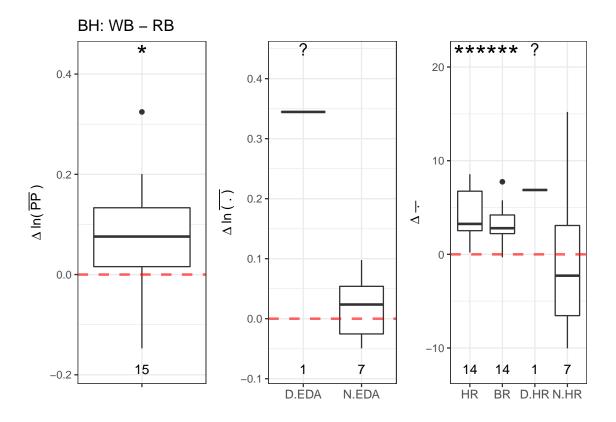
##

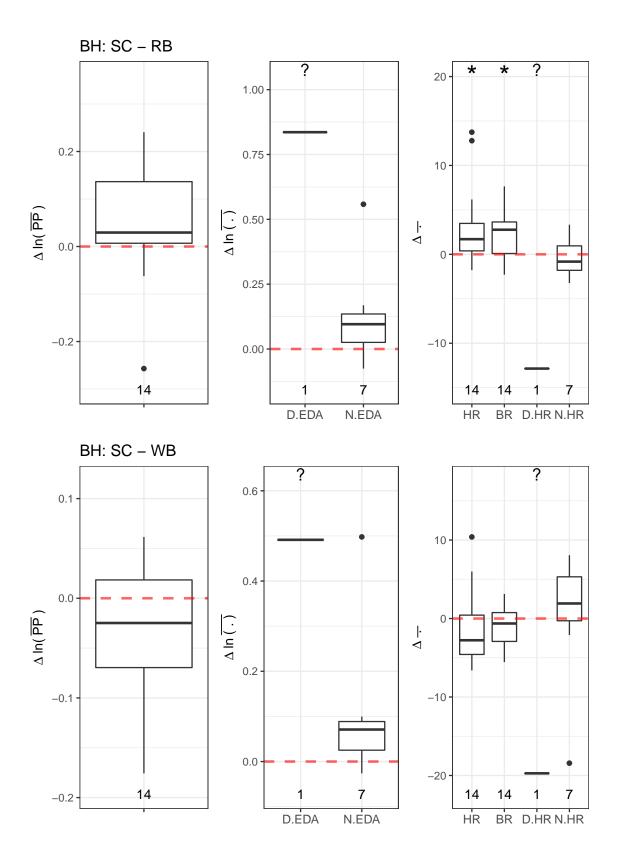
## Presentation - Dual Task

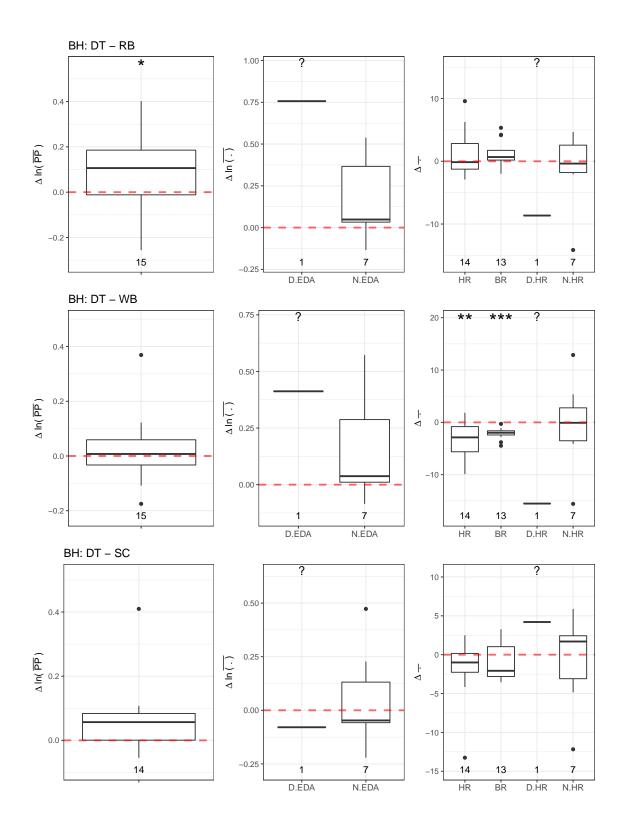
## Wilcoxon p = 0.7422 > 0.05

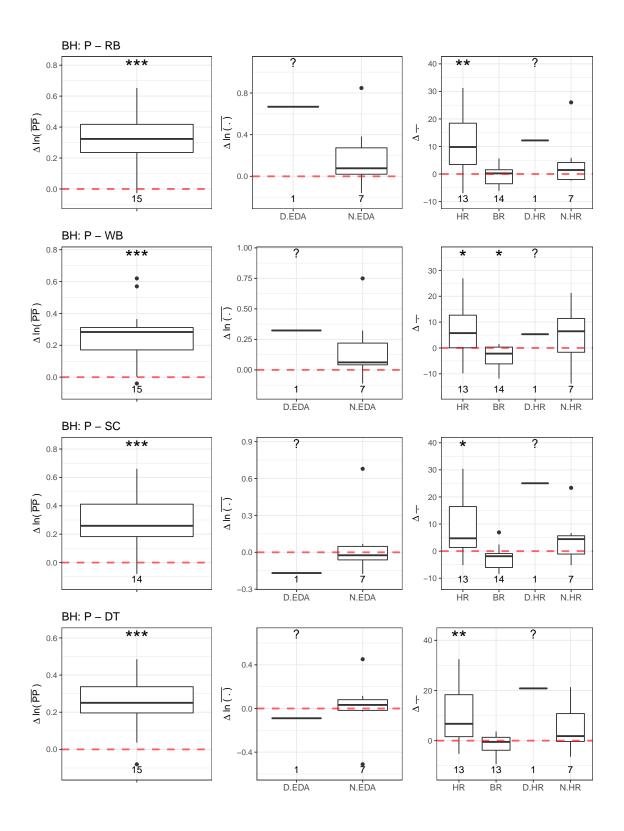
Batch-High (BH)

# Sensor Channels per Activity

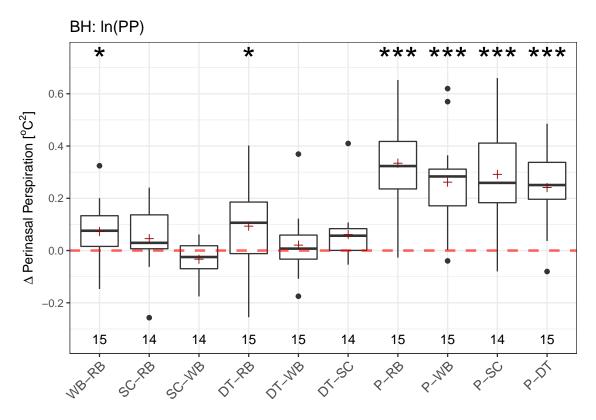






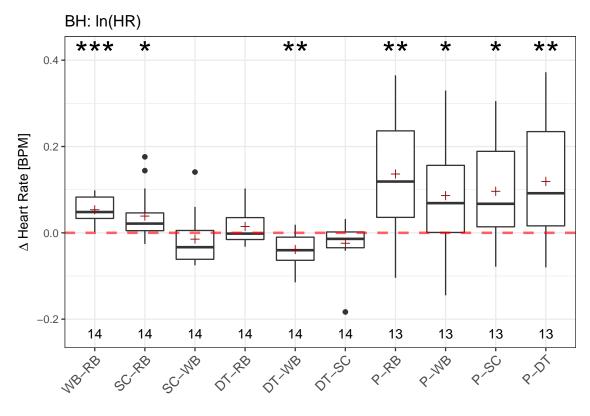


### Sensor Channel across Activities



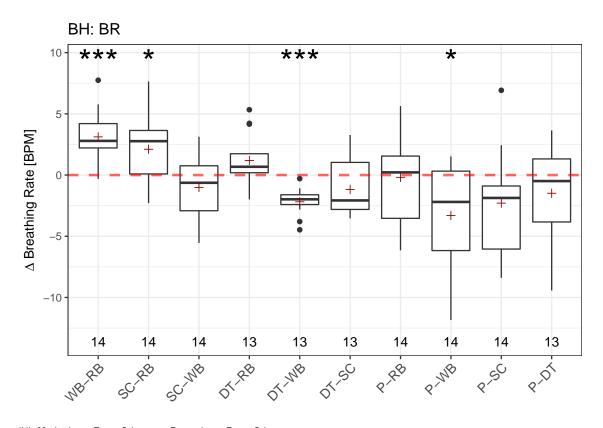
```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.0219 < 0.05 *
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.1778 > 0.05
## StressCondition - Writing Baseline
## Transformed t-test p = 0.0974 > 0.05
##
## Dual Task - Resting Baseline
## Transformed t-test p = 0.0363 < 0.05 *
## Dual Task - Writing Baseline
## Transformed t-test p = 0.526 > 0.05
## Dual Task - Stress Condition
## Transformed t-test p = 0.063 > 0.05
## Presentation - Resting Baseline
## Transformed t-test p = 0 < 0.001 ***
##
## Presentation - Writing Baseline
## Transformed t-test p = 1e-04 < 0.001 ***
```

```
##
## Presentation - Stress Condition
## Transformed t-test p = 1e-04 < 0.001 ***
##
## Presentation - Dual Task
## Transformed t-test p = 0 < 0.001 ***</pre>
```



```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0 < 0.001 ***
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.0327 < 0.05 *
##
## StressCondition - Writing Baseline
## Transformed t-test p = 0.3941 > 0.05
## Dual Task - Resting Baseline
## Transformed t-test p = 0.2172 > 0.05
## Dual Task - Writing Baseline
## Transformed t-test p = 0.0025 < 0.01 **
##
## Dual Task - Stress Condition
## Transformed t-test p = 0.0971 > 0.05
##
## Presentation - Resting Baseline
## Transformed t-test p = 0.0048 < 0.01 **
## Presentation - Writing Baseline
## Transformed t-test p = 0.0411 < 0.05 *
## Presentation - Stress Condition
```

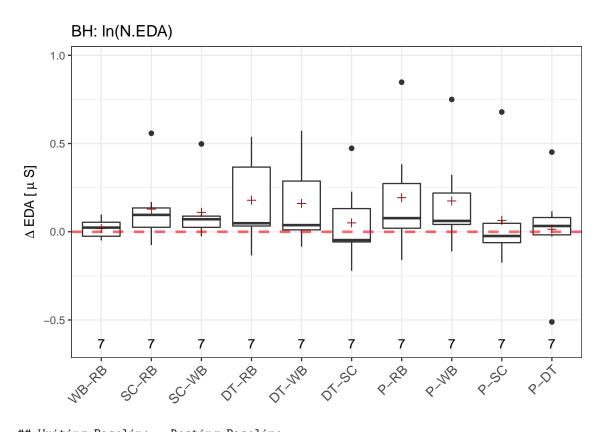
```
## Transformed t-test p = 0.0162 < 0.05 * ## ## Presentation - Dual Task ## Transformed t-test p = 0.0095 < 0.01 **
```



```
## Writing Baseline - Resting Baseline
## t-test p = 1e-04 < 0.001 ***
##
## Stress Condition - Resting Baseline
## t-test p = 0.0167 < 0.05 *
##
## StressCondition - Writing Baseline
## t-test p = 0.1543 > 0.05
## Dual Task - Resting Baseline
## t-test p = 0.0745 > 0.05
## Dual Task - Writing Baseline
## t-test p = 0 < 0.001 ***
##
## Dual Task - Stress Condition
## t-test p = 0.1009 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0.847 > 0.05
## Presentation - Writing Baseline
## t-test p = 0.014 < 0.05 *
## Presentation - Stress Condition
```

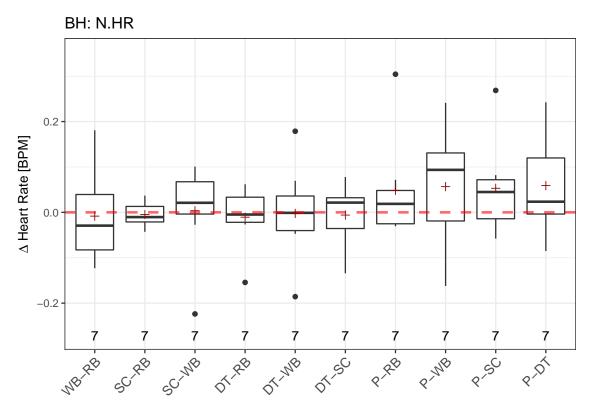
```
## t-test p = 0.0649 > 0.05
## ## Presentation - Dual Task
## t-test p = 0.1687 > 0.05
```

 $\mbox{\tt \#\#}$  BH has LESS than 7 subjects for D.EDA. Cannot continue with test.  $\mbox{\tt \#\#}$  -----



```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.401 > 0.05
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.1497 > 0.05
##
## StressCondition - Writing Baseline
## Transformed t-test p = 0.1503 > 0.05
## Dual Task - Resting Baseline
## Transformed t-test p = 0.1015 > 0.05
## Dual Task - Writing Baseline
## Transformed t-test p = 0.1171 > 0.05
##
## Dual Task - Stress Condition
## Transformed t-test p = 0.5837 > 0.05
##
## Presentation - Resting Baseline
## Transformed t-test p = 0.1756 > 0.05
## Presentation - Writing Baseline
## Transformed t-test p = 0.1559 > 0.05
## Presentation - Stress Condition
```

 $\mbox{\tt \#\#}$  BH has LESS than 7 subjects for D.HR. Cannot continue with test.  $\mbox{\tt \#\#}$  -----

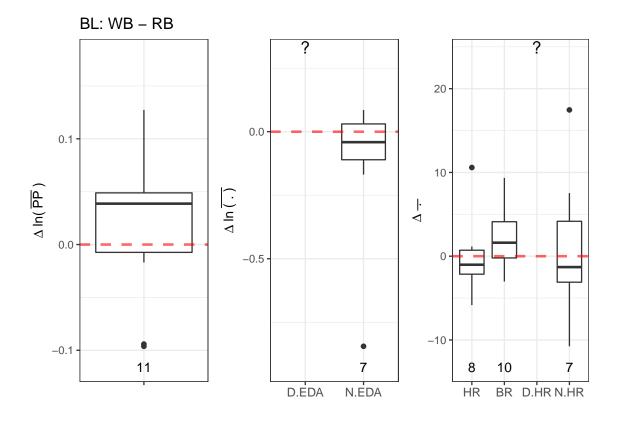


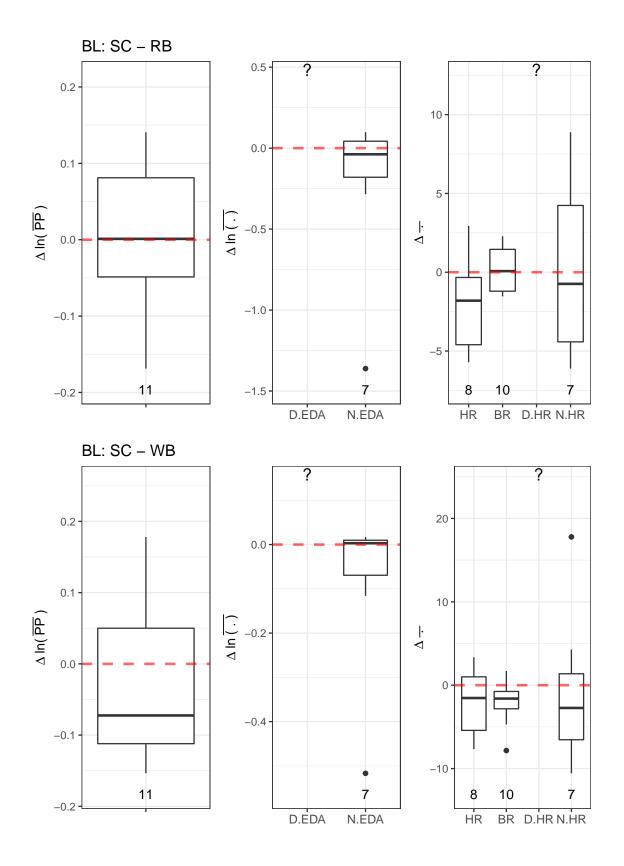
```
## Writing Baseline - Resting Baseline
## Wilcoxon p = 0.8125 > 0.05
## Stress Condition - Resting Baseline
## Wilcoxon p = 0.6875 > 0.05
##
## StressCondition - Writing Baseline
## Wilcoxon p = 0.5781 > 0.05
## Dual Task - Resting Baseline
## Wilcoxon p = 0.9375 > 0.05
## Dual Task - Writing Baseline
## Wilcoxon p = 0.9375 > 0.05
##
## Dual Task - Stress Condition
## Wilcoxon p = 0.9375 > 0.05
##
## Presentation - Resting Baseline
## Wilcoxon p = 0.6875 > 0.05
## Presentation - Writing Baseline
## Wilcoxon p = 0.4688 > 0.05
## Presentation - Stress Condition
```

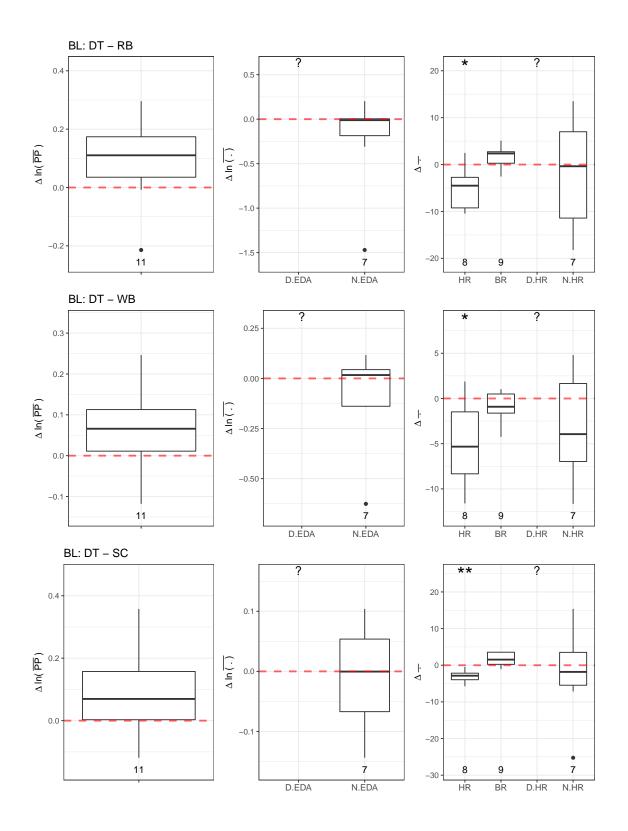
```
## Wilcoxon p = 0.2969 > 0.05
##
## Presentation - Dual Task
## Wilcoxon p = 0.375 > 0.05
```

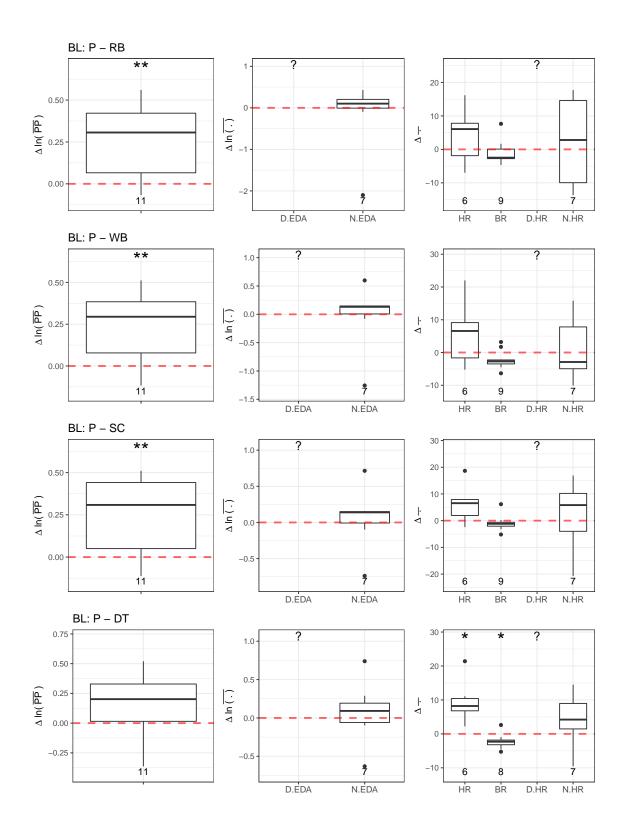
Batch-Low (BL)

# Sensor Channels per Activity

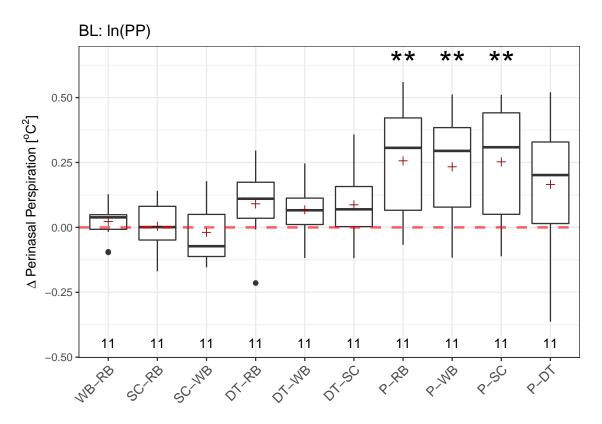






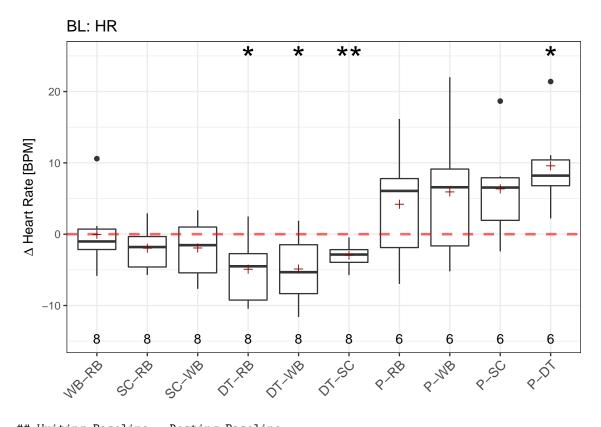


### Sensor Channel across Activities



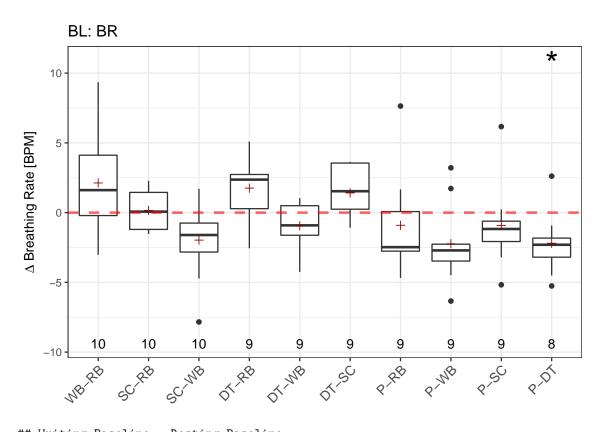
```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.3115 > 0.05
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.8923 > 0.05
## StressCondition - Writing Baseline
## Transformed t-test p = 0.5912 > 0.05
##
## Dual Task - Resting Baseline
## Transformed t-test p = 0.0525 > 0.05
## Dual Task - Writing Baseline
## Transformed t-test p = 0.068 > 0.05
## Dual Task - Stress Condition
## Transformed t-test p = 0.0607 > 0.05
## Presentation - Resting Baseline
## Transformed t-test p = 0.0026 < 0.01 **
##
## Presentation - Writing Baseline
## Transformed t-test p = 0.003 < 0.01 **
```

```
##
## Presentation - Stress Condition
## Transformed t-test p = 0.0039 < 0.01 **
##
## Presentation - Dual Task
## Transformed t-test p = 0.0575 > 0.05
```



```
## Writing Baseline - Resting Baseline
## t-test p = 0.9869 > 0.05
##
## Stress Condition - Resting Baseline
## t-test p = 0.1034 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.217 > 0.05
## Dual Task - Resting Baseline
## t-test p = 0.02 < 0.05 *
## Dual Task - Writing Baseline
## t-test p = 0.023 < 0.05 *
##
## Dual Task - Stress Condition
## t-test p = 0.0024 < 0.01 **
##
## Presentation - Resting Baseline
## t-test p = 0.2801 > 0.05
## Presentation - Writing Baseline
## t-test p = 0.2075 > 0.05
## Presentation - Stress Condition
```

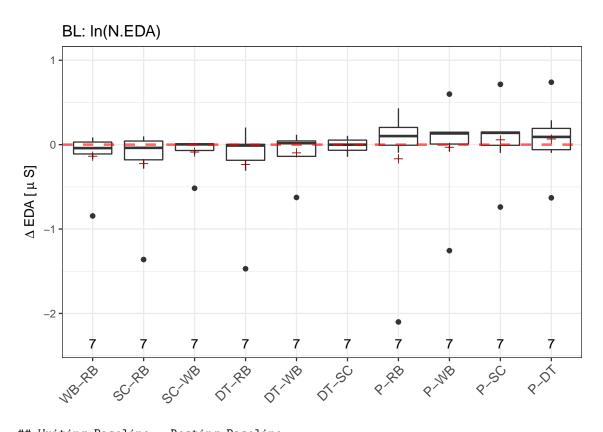
```
## t-test p = 0.0855 > 0.05
##
## Presentation - Dual Task
## t-test p = 0.0152 < 0.05 *</pre>
```



```
## Writing Baseline - Resting Baseline
## t-test p = 0.0916 > 0.05
##
## Stress Condition - Resting Baseline
## t-test p = 0.7428 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0548 > 0.05
## Dual Task - Resting Baseline
## t-test p = 0.0695 > 0.05
## Dual Task - Writing Baseline
## t-test p = 0.1269 > 0.05
##
## Dual Task - Stress Condition
## t-test p = 0.0515 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0.4879 > 0.05
## Presentation - Writing Baseline
## t-test p = 0.0536 > 0.05
## Presentation - Stress Condition
```

```
## t-test p = 0.4023 > 0.05
##
## Presentation - Dual Task
## t-test p = 0.0352 < 0.05 *</pre>
```

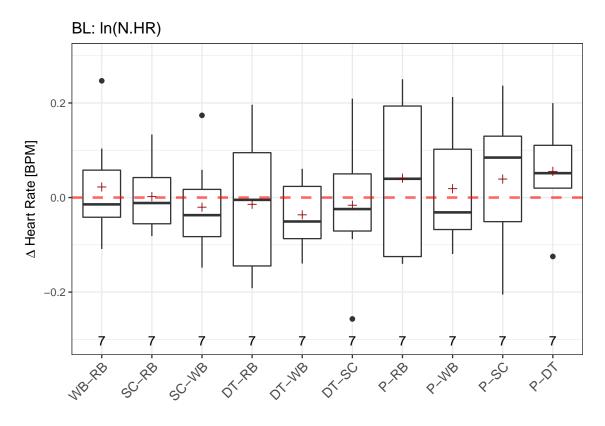
 $\mbox{\tt \#\#}$  BL has LESS than 7 subjects for D.EDA. Cannot continue with test.  $\mbox{\tt \#\#}$  -----



```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.3052 > 0.05
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.2933 > 0.05
##
## StressCondition - Writing Baseline
## Transformed t-test p = 0.2771 > 0.05
## Dual Task - Resting Baseline
## Transformed t-test p = 0.3145 > 0.05
## Dual Task - Writing Baseline
## Transformed t-test p = 0.3459 > 0.05
##
## Dual Task - Stress Condition
## Transformed t-test p = 0.7903 > 0.05
##
## Presentation - Resting Baseline
## Transformed t-test p = 0.6265 > 0.05
## Presentation - Writing Baseline
## Transformed t-test p = 0.8921 > 0.05
## Presentation - Stress Condition
```

```
## Transformed t-test p = 0.7383 > 0.05 ## ## Presentation - Dual Task ## Transformed t-test p = 0.6848 > 0.05
```

 $\mbox{\tt \#\#}$  BL has LESS than 7 subjects for D.HR. Cannot continue with test.  $\mbox{\tt \#\#}$  -----



```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.6353 > 0.05
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.949 > 0.05
##
## StressCondition - Writing Baseline
## Transformed t-test p = 0.6362 > 0.05
## Dual Task - Resting Baseline
## Transformed t-test p = 0.815 > 0.05
## Dual Task - Writing Baseline
## Transformed t-test p = 0.2386 > 0.05
##
## Dual Task - Stress Condition
## Transformed t-test p = 0.7756 > 0.05
##
## Presentation - Resting Baseline
## Transformed t-test p = 0.5543 > 0.05
## Presentation - Writing Baseline
## Transformed t-test p = 0.7244 > 0.05
## Presentation - Stress Condition
```

```
## Transformed t-test p = 0.5154 > 0.05
```

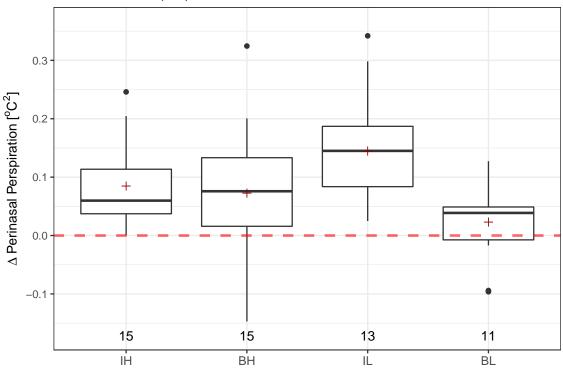
##

## Presentation - Dual Task

## Transformed t-test p = 0.219 > 0.05

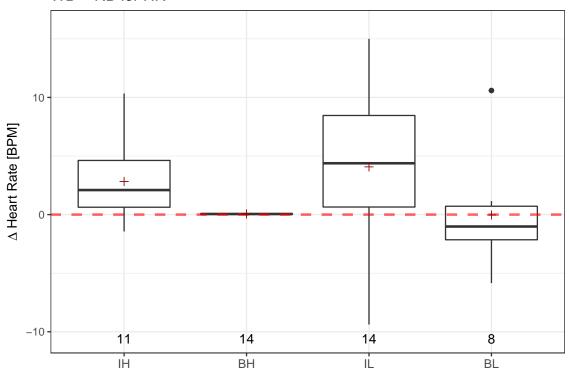
Across Activities

### WB - RB for In(PP)



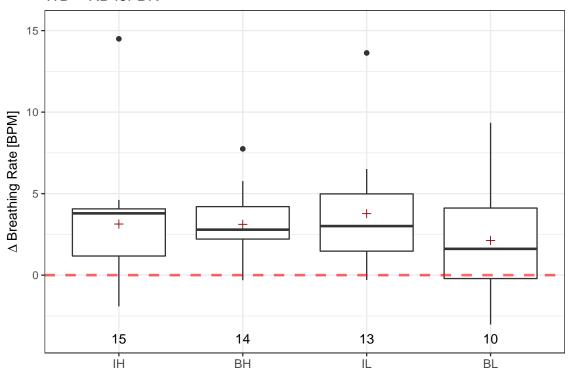
```
## ANOVA:
               Df Sum Sq Mean Sq F value Pr(>F)
               3 0.0907 0.030226 3.733 0.0169 *
## Condition
## Residuals
               50 0.4049 0.008098
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##
##
      Tukey multiple comparisons of means
##
       95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
                diff
                             lwr
                                        upr
                                                p adj
## BL-BH -0.04958842 -0.14452041 0.04534358 0.5125310
## IH-BH 0.01212856 -0.07519617 0.09945330 0.9826277
## IL-BH 0.07206111 -0.01856005 0.16268227 0.1629306
## IH-BL 0.06171698 -0.03321502 0.15664897 0.3204130
## IL-BL 0.12164952 0.02367673 0.21962232 0.0093801
## IL-IH 0.05993255 -0.03068862 0.15055371 0.3056628
```

### WB - RB for HR

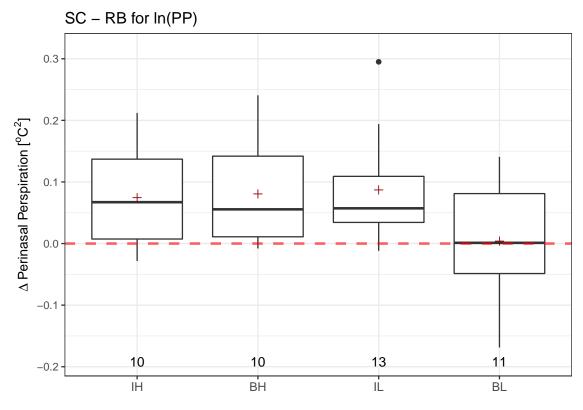


```
## ANOVA:
               Df Sum Sq Mean Sq F value Pr(>F)
               3 153.1 51.03
                                  2.755 0.0539 .
## Condition
## Residuals
               43 796.4
                           18.52
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## ---
##
      Tukey multiple comparisons of means
##
       95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##
               diff
                           lwr
                                    upr
                                            p adj
## BL-BH -0.0822899 -5.1794833 5.014903 0.9999707
## IH-BH 2.7736269 -1.8601852 7.407439 0.3896104
## IL-BH 4.0201097 -0.3267914 8.367011 0.0789812
## IH-BL 2.8559168 -2.4880560 8.199890 0.4891277
## IL-BL 4.1023996 -0.9947938 9.199593 0.1536400
## IL-IH 1.2464827 -3.3873294 5.880295 0.8890448
```

### WB - RB for BR

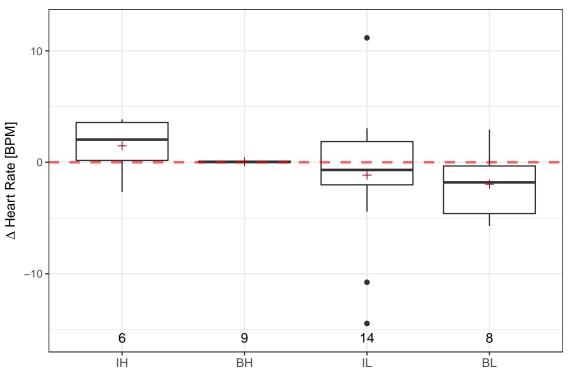


```
## ANOVA:
              Df Sum Sq Mean Sq F value Pr(>F)
## Condition
                  15.4 5.118
                                   0.45 0.719
               3
## Residuals
              48 546.1 11.378
##
## ---
##
##
      Tukey multiple comparisons of means
##
       95% family-wise confidence level
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##
                diff
                           lwr
                                    upr
                                            p adj
## BL-BH -0.99024685 -4.707155 2.726661 0.8930296
## IH-BH 0.01798573 -3.318041 3.354013 0.9999989
## IL-BH 0.65437408 -2.803318 4.112067 0.9578191
## IH-BL 1.00823258 -2.656688 4.673153 0.8836923
## IL-BL 1.64462094 -2.131383 5.420625 0.6551310
## IL-IH 0.63638836 -2.765358 4.038134 0.9591648
```



```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
##
##
     ANOVA:
               Df Sum Sq Mean Sq F value Pr(>F)
##
## Condition
               3 0.0502 0.016750
                                    2.117 0.113
  Residuals
               40 0.3165 0.007913
##
##
##
       Tukey multiple comparisons of means
##
##
       95% family-wise confidence level
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
## $Condition
                 diff
                              lwr
                                         upr
                                                 p adj
## BL-BH -0.076626057 -0.18080660 0.02755449 0.2157675
## IH-BH -0.006078721 -0.11271091 0.10055347 0.9987070
## IL-BH 0.006491587 -0.09380024 0.10678342 0.9981124
## IH-BL 0.070547336 -0.03363321 0.17472788 0.2814130
## IL-BL 0.083117644 -0.01456354 0.18079883 0.1196966
## IL-IH 0.012570308 -0.08772152 0.11286214 0.9867405
```

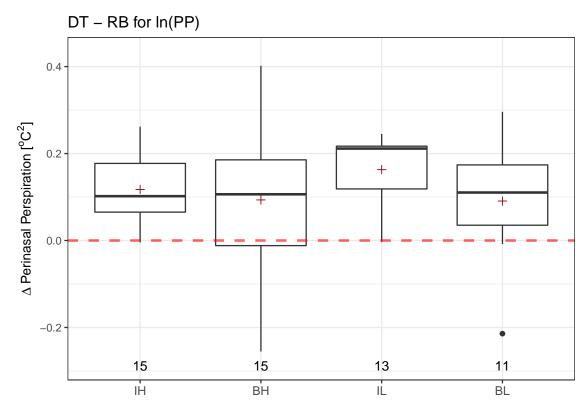
### SC - RB for HR



```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
##
##
    ANOVA:
               Df Sum Sq Mean Sq F value Pr(>F)
##
## Condition
               3
                   48.8
                           16.27
                                   0.932 0.436
## Residuals
               33 576.0
                           17.45
##
##
##
      Tukey multiple comparisons of means
##
       95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
## $Condition
               diff
                          lwr
                                   upr
                                           p adj
## BL-BH -2.0133160 -7.504415 3.477783 0.7550819
## IH-BH 1.4303974 -4.525536 7.386331 0.9149259
## IL-BH -1.1960968 -6.024235 3.632042 0.9076004
## IH-BL 3.4437134 -2.659302 9.546729 0.4338003
## IL-BL 0.8172192 -4.191231 5.825670 0.9708163
## IL-IH -2.6264942 -8.140617 2.887629 0.5765866
```

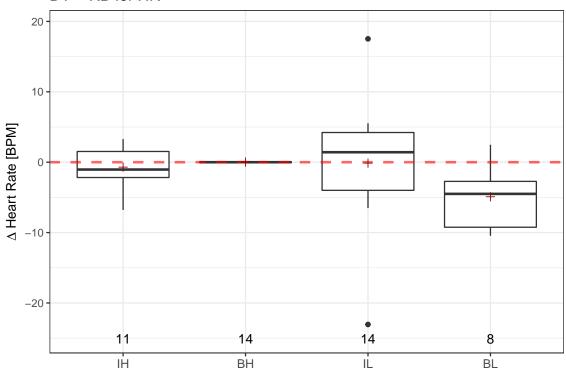
# SC - RB for BR 10 -5 9 9 14 10 IH BH IL BL

```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
##
##
    ANOVA:
##
               Df Sum Sq Mean Sq F value Pr(>F)
## Condition
                   21.4
                         7.149
                                   0.704 0.555
               3
## Residuals
               38 385.8 10.153
##
##
##
      Tukey multiple comparisons of means
##
      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
## $Condition
              diff
                          lwr
                                   upr
                                           p adj
## BL-BH -1.9538117 -5.886873 1.979250 0.5472353
## IH-BH -0.2871680 -4.322404 3.748068 0.9974784
## IL-BH -0.8231676 -4.480411 2.834076 0.9299641
## IH-BL 1.6666437 -2.266418 5.599705 0.6684465
## IL-BL 1.1306441 -2.413545 4.674833 0.8267114
## IL-IH -0.5359996 -4.193243 3.121244 0.9789960
```

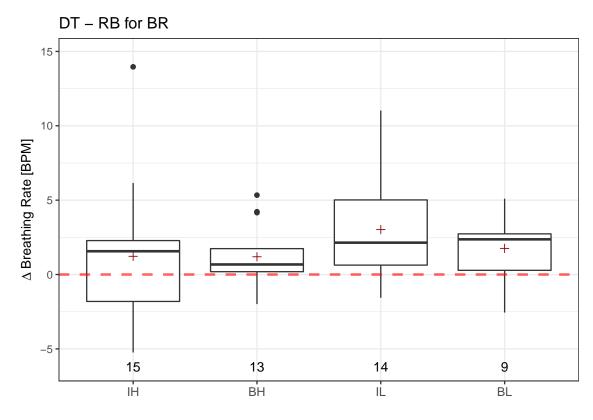


```
## ANOVA:
               Df Sum Sq Mean Sq F value Pr(>F)
                3 0.0434 0.01445
## Condition
                                   1.047
## Residuals
               50 0.6903 0.01381
##
##
##
##
       Tukey multiple comparisons of means
##
       95% family-wise confidence level
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##
                 {\tt diff}
                              lwr
                                         upr
                                                 p adj
## BL-BH -0.002520434 -0.12647497 0.1214341 0.9999425
## IH-BH 0.024093888 -0.08992770 0.1381155 0.9429316
## IL-BH 0.069611785 -0.04871401 0.1879376 0.4084248
## IH-BL 0.026614322 -0.09734021 0.1505689 0.9403670
## IL-BL 0.072132219 -0.05579275 0.2000572 0.4460204
## IL-IH 0.045517897 -0.07280789 0.1638437 0.7372276
```

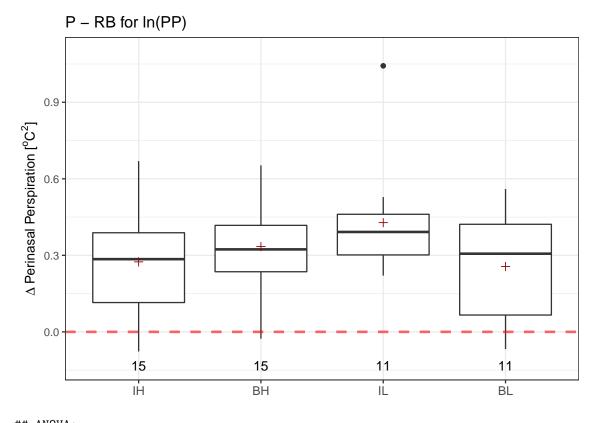




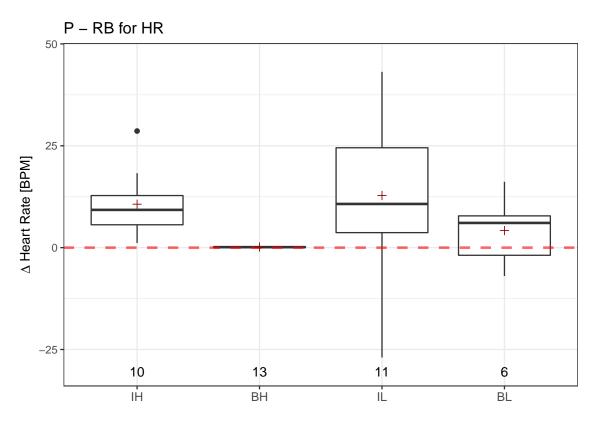
```
## ANOVA:
              Df Sum Sq Mean Sq F value Pr(>F)
               3 148.2
                           49.4
                                   1.669 0.188
## Condition
## Residuals
               43 1272.7
                            29.6
##
## ---
##
##
      Tukey multiple comparisons of means
##
       95% family-wise confidence level
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##
               diff
                           lwr
                                     upr
                                             p adj
## BL-BH -4.9257293 -11.369363 1.517905 0.1885296
## IH-BH -0.7186071 -6.576456 5.139242 0.9876655
## IL-BH -0.1479398 -5.643089
                               5.347210 0.9998642
## IH-BL 4.2071221 -2.548479 10.962723 0.3547230
## IL-BL 4.7777895 -1.665844 11.221423 0.2107991
## IL-IH 0.5706674 -5.287182 6.428516 0.9937245
```



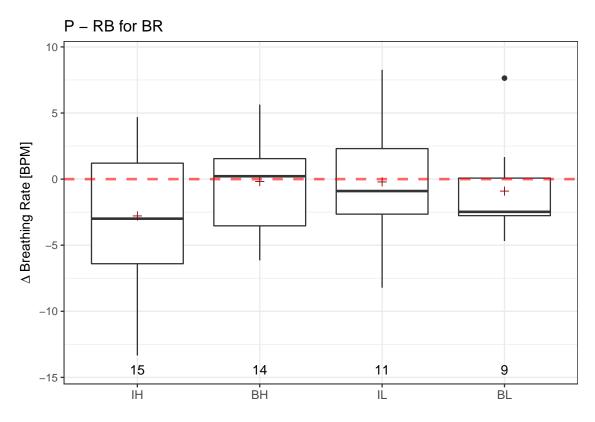
```
## ANOVA:
               Df Sum Sq Mean Sq F value Pr(>F)
## Condition
                           10.19 0.785 0.508
               3
                    30.6
## Residuals
               47 610.3
                           12.98
##
## ---
##
##
      Tukey multiple comparisons of means
##
       95% family-wise confidence level
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##
                diff
                           lwr
                                    upr
                                            p adj
## BL-BH 0.56288206 -3.598925 4.724689 0.9837998
## IH-BH 0.03130078 -3.605548 3.668149 0.9999956
## IL-BH 1.82566162 -1.871000 5.522323 0.5579624
## IH-BL -0.53158128 -4.578293 3.515130 0.9851142
## IL-BL 1.26277956 -2.837771 5.363330 0.8446226
## IL-IH 1.79436084 -1.772226 5.360948 0.5426749
```



```
## ANOVA:
               Df Sum Sq Mean Sq F value Pr(>F)
## Condition
                3 0.2077 0.06923
                                   1.682 0.183
## Residuals
               48 1.9759 0.04117
##
## ---
##
##
       Tukey multiple comparisons of means
##
       95% family-wise confidence level
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##
                diff
                             lwr
                                       upr
                                               p adj
## BL-BH -0.07795670 -0.29230233 0.1363889 0.7681789
## IH-BH -0.05996856 -0.25713786 0.1372007 0.8496836
## IL-BH 0.09389197 -0.12045366 0.3082376 0.6510356
## IH-BL 0.01798814 -0.19635749 0.2323338 0.9960160
## IL-BL 0.17184867 -0.05839547 0.4020928 0.2073596
## IL-IH 0.15386053 -0.06048510 0.3682062 0.2373514
```



```
## ANOVA:
              Df Sum Sq Mean Sq F value Pr(>F)
                          387.7
                                  2.922 0.0471 *
## Condition
               3 1163
## Residuals
              36
                   4777
                          132.7
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## ---
##
      Tukey multiple comparisons of means
##
      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##
             diff
                           lwr
                                    upr
                                            p adj
## BL-BH 4.061217 -11.25116681 19.37360 0.8907643
## IH-BH 10.527892 -2.52195840 23.57774 0.1503088
## IL-BH 12.663910 -0.04624692 25.37407 0.0511343
## IH-BL 6.466676 -9.55462121 22.48797 0.6995544
## IL-BL 8.602693 -7.14314547 24.34853 0.4647807
## IL-IH 2.136017 -11.41982783 15.69186 0.9739392
```



```
## ANOVA:
               Df Sum Sq Mean Sq F value Pr(>F)
## Condition
                           21.09
                                   1.082 0.366
               3 63.3
## Residuals
               45 876.8
                           19.48
##
## ---
##
##
      Tukey multiple comparisons of means
##
       95% family-wise confidence level
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##
                diff
                           lwr
                                    upr
                                            p adj
## BL-BH -0.72180374 -5.752764 4.309156 0.9806847
## IH-BH -2.60029235 -6.976134 1.775549 0.3971253
## IL-BH -0.02966783 -4.774074 4.714738 0.9999983
## IH-BL -1.87848862 -6.843394 3.086417 0.7448135
## IL-BL 0.69213590 -4.600471 5.984743 0.9852291
## IL-IH 2.57062452 -2.103679 7.244928 0.4654356
```

## Summary

BH	Condition	Difference	Measure	р	Test	n	Significance
BH	BH	WB - RB	PP	0.0219462	Transformed t-test	15	*
BH	BH	WB - RB	HR	0.0000130	Transformed t-test	14	***
BH	BH	WB - RB	BR	0.0001138	t-test	14	***
BH	BH	WB - RB	N.EDA	0.4010163	Transformed t-test	7	
BH	BH	WB - RB	N.HR	0.8125000	Wilcoxon	7	
BH	BH	SC - RB	PP	0.1778303	Transformed t-test	14	
BH	BH	SC - RB	HR	0.0327106	Transformed t-test	14	*
BH	ВН	SC - RB	BR	0.0167176	t-test	14	*
BH	BH	SC - RB	N.EDA	0.1496509	Transformed t-test	7	
BH         SC - WB         HR         0.3940901         Transformed t-test         14           BH         SC - WB         BR         0.1543122         t-test         14           BH         SC - WB         N.EDA         0.1503231         Transformed t-test         7           BH         SC - WB         N.HR         0.5781250         Wilcoxon         7           BH         DT - RB         PP         0.0363198         Transformed t-test         15           BH         DT - RB         HR         0.2171923         Transformed t-test         14           BH         DT - RB         BR         0.0744732         t-test         13           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         15           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         15           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         14         ***           BH	ВН	SC - RB	N.HR	0.6875000	Wilcoxon	7	
BH         SC - WB         BR         0.1543122         t-test         14           BH         SC - WB         N.EDA         0.1503231         Transformed t-test         7           BH         SC - WB         N.HR         0.5781250         Wilcoxon         7           BH         DT - RB         PP         0.0363198         Transformed t-test         15           BH         DT - RB         HR         0.2171923         Transformed t-test         14           BH         DT - RB         BR         0.0744732         t-test         13           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         BR         0.0020095         t-test         13         ****           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         14         ***           BH         DT - SC         PP         0.0629673         Transformed t-test         14         BH         DT - SC         <	BH	SC - WB	PP	0.0973689	Transformed t-test	14	
BH         SC - WB         BR         0.1543122         t-test         14           BH         SC - WB         N.EDA         0.1503231         Transformed t-test         7           BH         SC - WB         N.HR         0.5781250         Wilcoxon         7           BH         DT - RB         PP         0.0363198         Transformed t-test         15           BH         DT - RB         HR         0.2171923         Transformed t-test         14           BH         DT - RB         BR         0.0744732         t-test         13           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         BR         0.0020095         t-test         13         ****           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         14         ***           BH         DT - SC         PP         0.0629673         Transformed t-test         14         BH         DT - SC         <	ВН	SC - WB	HR	0.3940901	Transformed t-test	14	
BH         SC - WB         N.HR         0.5781250         Wilcoxon         7           BH         DT - RB         PP         0.0363198         Transformed t-test         15         *           BH         DT - RB         HR         0.2171923         Transformed t-test         14           BH         DT - RB         BR         0.0744732         t-test         13           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7         BH         DT - WB         N.HR         0.9375000         Wilcoxon         7         BH         DT - SC         PP         0.0629673         Transformed t-test         14         BH         DT - SC         HR         0.1008707         t-test         14         BH         BH         DT - SC         BR         0.1008707	BH		BR		t-test	14	
BH         SC - WB         N.HR         0.5781250         Wilcoxon         7           BH         DT - RB         PP         0.0363198         Transformed t-test         15         *           BH         DT - RB         HR         0.2171923         Transformed t-test         14           BH         DT - RB         BR         0.0744732         t-test         13           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7         BH         DT - WB         N.HR         0.9375000         Wilcoxon         7         BH         DT - SC         PP         0.0629673         Transformed t-test         14         BH         DT - SC         HR         0.1008707         t-test         14         BH         BH         DT - SC         BR         0.1008707					Transformed t-test		
BH         DT - RB         PP         0.0363198         Transformed t-test         15         *           BH         DT - RB         HR         0.2171923         Transformed t-test         14           BH         DT - RB         BR         0.0744732         t-test         13           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7         ***           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7         ***           BH         DT - SC         PP         0.0629673         Transformed t-test         14         ***           BH         DT - SC         BR         0.1008707         t-test         13         ***           BH         DT - SC         N.EDA         0.5837117         Trans							
BH         DT - RB         HR         0.2171923         Transformed t-test         14           BH         DT - RB         BR         0.0744732         t-test         13           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         14         ***           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH						15	*
BH         DT - RB         BR         0.0744732         t-test         13           BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         BR         0.0000095         t-test         13         ****           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         15         ****           B							
BH         DT - RB         N.EDA         0.1015420         Transformed t-test         7           BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.000026         Transformed t-test         15         ****           BH							
BH         DT - RB         N.HR         0.9375000         Wilcoxon         7           BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         BR         0.0000095         t-test         13         ****           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         HR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         HR         0.0000026         Transformed t-test         15         ****           BH							
BH         DT - WB         PP         0.5259981         Transformed t-test         15           BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         BR         0.0000095         t-test         13         ****           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.0000026         Transformed t-test         15         ****           BH         P - RB         HR         0.047967         Transformed t-test         13         ***     <							
BH         DT - WB         HR         0.0024620         Transformed t-test         14         ***           BH         DT - WB         BR         0.0000095         t-test         13         ****           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         HR         0.0047967         Transformed t-test         15         ****           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           B							
BH         DT - WB         BR         0.0000095         t-test         13         ***           BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.000026         Transformed t-test         15         ****           BH         P - RB         HR         0.0047967         Transformed t-test         13         **           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>**</td>							**
BH         DT - WB         N.EDA         0.1170956         Transformed t-test         7           BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.0000026         Transformed t-test         15         ****           BH         P - RB         HR         0.0047967         Transformed t-test         13         ***           BH         P - RB         BR         0.8470484         t-test         14           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ****							***
BH         DT - WB         N.HR         0.9375000         Wilcoxon         7           BH         DT - SC         PP         0.0629673         Transformed t-test         14           BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.0000026         Transformed t-test         15         ***           BH         P - RB         HR         0.0047967         Transformed t-test         13         ***           BH         P - RB         BR         0.8470484         t-test         14         ***           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7         ****           BH         P - RB         N.HR         0.6875000         Wilcoxon         7         ****           BH         P - WB         HR         0.0139962         t-test         14	ВН	DT - WB	N.EDA		Transformed t-test	7	
BH         DT - SC         HR         0.0971471         Transformed t-test         14           BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.0000026         Transformed t-test         15         ***           BH         P - RB         HR         0.0047967         Transformed t-test         13         **           BH         P - RB         BR         0.8470484         t-test         14         ***           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ****           BH         P - WB         HR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.155886         Transformed t-test         7	ВН	DT - WB		0.9375000	Wilcoxon	7	
BH         DT - SC         BR         0.1008707         t-test         13           BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.0000026         Transformed t-test         15         ***           BH         P - RB         HR         0.0047967         Transformed t-test         13         **           BH         P - RB         BR         0.8470484         t-test         14         **           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7         ***           BH         P - RB         N.HR         0.6875000         Wilcoxon         7         ****           BH         P - WB         PP         0.0000551         Transformed t-test         15         ****           BH         P - WB         BR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - SC         PP         0.0000624         Transf	BH	DT - SC	PP	0.0629673	Transformed t-test	14	
BH         DT - SC         N.EDA         0.5837117         Transformed t-test         7           BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.0000026         Transformed t-test         15         ****           BH         P - RB         HR         0.0047967         Transformed t-test         13         **           BH         P - RB         BR         0.8470484         t-test         14           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ****           BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14 <t< td=""><td>BH</td><td>DT - SC</td><td>HR</td><td>0.0971471</td><td>Transformed t-test</td><td>14</td><td></td></t<>	BH	DT - SC	HR	0.0971471	Transformed t-test	14	
BH         DT - SC         N.HR         0.9375000         Wilcoxon         7           BH         P - RB         PP         0.0000026         Transformed t-test         15         ***           BH         P - RB         HR         0.0047967         Transformed t-test         13         **           BH         P - RB         BR         0.8470484         t-test         14           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ***           BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         1	BH	DT - SC	BR	0.1008707	t-test	13	
BH         P - RB         PP         0.0000026         Transformed t-test         15         ***           BH         P - RB         HR         0.0047967         Transformed t-test         13         **           BH         P - RB         BR         0.8470484         t-test         14           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ****           BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test <td>BH</td> <td>DT - SC</td> <td>N.EDA</td> <td>0.5837117</td> <td>Transformed t-test</td> <td>7</td> <td></td>	BH	DT - SC	N.EDA	0.5837117	Transformed t-test	7	
BH         P - RB         HR         0.0047967         Transformed t-test         13         **           BH         P - RB         BR         0.8470484         t-test         14           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ***           BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         BR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         BR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test	BH	DT - SC	N.HR	0.9375000	Wilcoxon	7	
BH         P - RB         BR         0.8470484         t-test         14           BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ***           BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         BR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - RB	PP	0.0000026	Transformed t-test	15	***
BH         P - RB         N.EDA         0.1756011         Transformed t-test         7           BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ***           BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         BR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - RB	HR	0.0047967	Transformed t-test	13	**
BH         P - RB         N.HR         0.6875000         Wilcoxon         7           BH         P - WB         PP         0.0000551         Transformed t-test         15         ****           BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         BR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - RB	BR	0.8470484	t-test	14	
BH         P - WB         PP         0.0000551         Transformed t-test         15         ***           BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         BR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - RB	N.EDA	0.1756011	Transformed t-test	7	
BH         P - WB         HR         0.0411070         Transformed t-test         13         *           BH         P - WB         BR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - RB	N.HR	0.6875000	Wilcoxon	7	
BH         P - WB         BR         0.0139962         t-test         14         *           BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - WB	PP	0.0000551	Transformed t-test	15	***
BH         P - WB         N.EDA         0.1558886         Transformed t-test         7           BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ***           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - WB	HR	0.0411070	Transformed t-test	13	*
BH         P - WB         N.HR         0.4687500         Wilcoxon         7           BH         P - SC         PP         0.0000624         Transformed t-test         14         ****           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - WB	BR	0.0139962	t-test	14	*
BH         P - SC         PP         0.0000624         Transformed t-test         14         ***           BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - WB	N.EDA	0.1558886	Transformed t-test	7	
BH         P - SC         HR         0.0161774         Transformed t-test         13         *           BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - WB	N.HR	0.4687500	Wilcoxon	7	
BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - SC	PP	0.0000624	Transformed t-test	14	***
BH         P - SC         BR         0.0649132         t-test         14           BH         P - SC         N.EDA         0.5670972         Transformed t-test         7	BH	P - SC	HR	0.0161774	Transformed t-test	13	*
BH P - SC N.EDA 0.5670972 Transformed t-test 7	BH		BR		t-test	14	
BH P - SC N HR 0.2968750 Wilcoxon 7	BH	P - SC	N.EDA			7	
I SO ITITILE G.2000100 WILCONOIL	BH	P - SC	N.HR	0.2968750	Wilcoxon	7	

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Condition	Difference	Measure	p	Test	n	Significance
BH	P - DT	PP	0.0000121	Transformed t-test	15	***
BH	P - DT	HR	0.0094598	Transformed t-test	13	**
BH	P - DT	BR	0.1686709	t-test	13	
BH	P - DT	N.EDA	0.8984151	Transformed t-test	7	
BH	P - DT	N.HR	0.3750000	Wilcoxon	7	
BL	WB - RB	PP	0.3115380	Transformed t-test	11	
BL	WB - RB	HR	0.9869320	t-test	8	
BL	WB - RB	BR	0.0915679	t-test	10	
BL	WB - RB	N.EDA	0.3051551	Transformed t-test	7	
BL	WB - RB	N.HR	0.6352867	Transformed t-test	7	
BL	SC - RB	PP	0.8923279	Transformed t-test	11	
BL	SC - RB	HR	0.1034335	t-test	8	
BL	SC - RB	BR	0.7428199	t-test	10	
BL	SC - RB	N.EDA	0.2933096	Transformed t-test	7	
BL	SC - RB	N.HR	0.9490450	Transformed t-test	7	
BL	SC - WB	PP	0.5912498	Transformed t-test	11	
BL	SC - WB	HR	0.2170117	t-test	8	
BL	SC - WB	BR	0.0548135	t-test	10	
BL	SC - WB	N.EDA	0.2771255	Transformed t-test	7	
BL	SC - WB	N.HR	0.6361583	Transformed t-test	7	
BL	DT - RB	PP	0.0525337	Transformed t-test	11	
BL	DT - RB	HR	0.0200050	t-test	8	*
BL	DT - RB	BR	0.0694710	t-test	9	
BL	DT - RB	N.EDA	0.3144819	Transformed t-test	7	
BL	DT - RB	N.HR	0.8150155	Transformed t-test	7	
BL	DT - WB	PP	0.0679895	Transformed t-test	11	
BL	DT - WB	HR	0.0230059	t-test	8	*
BL	DT - WB	BR	0.1268540	t-test	9	
BL	DT - WB	N.EDA	0.3459481	Transformed t-test	7	
BL	DT - WB	N.HR	0.2385658	Transformed t-test	7	
BL	DT - SC	PP	0.0607361	Transformed t-test	11	
BL	DT - SC	HR	0.0023709	t-test	8	**
BL	DT - SC	BR	0.0515357	t-test	9	
BL	DT - SC	N.EDA	0.7902806	Transformed t-test	7	
BL	DT - SC	N.HR	0.7756201	Transformed t-test	7	
BL	P - RB	PP	0.0026388	Transformed t-test	11	**
BL	P - RB	HR	0.2800986	t-test	6	
BL	P - RB	BR	0.4878811	t-test	9	
BL	P - RB	N.EDA	0.6265201	Transformed t-test	7	
BL	P - RB	N.HR	0.5543464	Transformed t-test	7	
BL	P - WB	PP	0.0030397	Transformed t-test	11	**
BL	P - WB	HR	0.2075354	t-test	6	
BL	P - WB	BR	0.0535812	t-test	9	
BL	P - WB	N.EDA	0.8920899	Transformed t-test	7	
BL	P - WB	N.HR	0.7244497	Transformed t-test	7	
BL	P - SC	PP	0.0038631	Transformed t-test	11	**
BL	P - SC	HR	0.0855441	t-test	6	
DE	1 50	1110	3.0000111	0 3050	U	

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Condition	Difference	Measure	p	Test	n	Significance
BL	P - SC	BR	0.4022510	t-test	9	
BL	P - SC	N.EDA	0.7382911	Transformed t-test	7	
BL	P - SC	N.HR	0.5154267	Transformed t-test	7	
BL	P - DT	PP	0.0575016	Transformed t-test	11	
BL	P - DT	$_{ m HR}$	0.0152101	t-test	6	*
BL	P - DT	BR	0.0351610	t-test	8	*
BL	P - DT	N.EDA	0.6847513	Transformed t-test	7	
BL	P - DT	N.HR	0.2190368	Transformed t-test	7	
IH	WB - RB	PP	0.0004610	Transformed t-test	15	***
IH	WB - RB	HR	0.0188344	t-test	11	*
IH	WB - RB	BR	0.0074935	t-test	15	**
IH	WB - RB	N.EDA	0.3403120	Transformed t-test	8	
IH	WB - RB	N.HR	0.7303749	Transformed t-test	8	
IH	SC - RB	PP	0.0122546	Transformed t-test	14	*
IH	SC - RB	HR	0.3552732	t-test	10	
IH	SC - RB	BR	0.1188954	t-test	15	
IH	SC - RB	N.EDA	0.2429520	Transformed t-test	8	
IH	SC - RB	N.HR	0.3455392	Transformed t-test	8	
IH	SC - WB	PP	0.1694595	Transformed t-test	14	
IH	SC - WB	HR	0.0243429	t-test	10	*
IH	SC - WB	BR	0.0317792	t-test	15	*
IH	SC - WB	N.EDA	0.4308000	Transformed t-test	8	
IH	SC - WB	N.HR	0.5336331	Transformed t-test	8	
IH	DT - RB	PP	0.0000487	Transformed t-test	15	***
IH	DT - RB	HR	0.4334571	t-test	11	
IH	DT - RB	BR	0.3322883	t-test	15	
IH	DT - RB	N.EDA	0.2213848	Transformed t-test	8	
IH	DT - RB	N.HR	0.2236593	Transformed t-test	8	
IH	DT - WB	PP	0.1077157	Transformed t-test	15	
IH	DT - WB	HR	0.0035532	t-test	11	**
IH	DT - WB	BR	0.0022952	t-test	15	**
IH	DT - WB	N.EDA	0.0592213	Transformed t-test	8	
IH	DT - WB	N.HR	0.4089959	Transformed t-test	8	
IH	DT - SC	PP	0.0437527	Transformed t-test	14	*
IH	DT - SC	HR	0.1613719	t-test	10	
IH	DT - SC	BR	0.5106319	t-test	15	
IH	DT - SC	N.EDA	0.2521891	Transformed t-test	8	
IH	DT - SC	N.HR	0.4920073	Transformed t-test	8	
IH	P - RB	PP	0.4320013	Transformed t-test	15	***
IH	P - RB	HR	0.0023820	t-test	10	**
IH	P - RB	BR	0.0545015	t-test	15	
IH	P - RB	N.EDA	0.2098217	Transformed t-test	8	
IH	P - RB	N.HR	0.2033217	Transformed t-test	8	
IH	P - WB	PP	0.1903474	Transformed t-test	15	**
IH	P - WB	HR	0.0030183	t-test	10	*
IH	P - WB	BR	0.0288301	t-test	15	***
IH	P - WB	N.EDA	0.0000713	Transformed t-test	8	
	1 - WD	II.DDA	0.1434001	Transformed t-test	O	

$\underline{(continued)}$						
Condition	Difference	Measure	p	Test	n	Significance
IH	P - WB	N.HR	0.5532956	Transformed t-test	8	
IH	P - SC	PP	0.0016492	Transformed t-test	14	**
IH	P - SC	HR	0.0063270	t-test	10	**
IH	P - SC	BR	0.0003555	t-test	15	***
IH	P - SC	N.EDA	0.5000502	Transformed t-test	8	
IH	P - SC	N.HR	0.1035174	Transformed t-test	8	
IH	P - DT	PP	0.0049110	Transformed t-test	15	**
IH	P - DT	HR	0.0014945	t-test	10	**
IH	P - DT	BR	0.0005129	t-test	15	***
IH	P - DT	N.EDA	0.4611354	Transformed t-test	8	
IH	P - DT	N.HR	0.0084480	Transformed t-test	8	**
IL	WB - RB	PP	0.0001706	Transformed t-test	13	***
IL	WB - RB	HR	0.0318164	t-test	14	*
IL	WB - RB	BR	0.0029280	t-test	13	**
IL	WB - RB	N.EDA	0.3070520	Transformed t-test	8	
IL	WB - RB	N.HR	0.8203125	Wilcoxon	9	
IL	SC - RB	PP	0.0047788	Transformed t-test	13	**
IL	SC - RB	HR	0.4931241	t-test	14	
IL	SC - RB	BR	0.1716031	t-test	14	
IL	SC - RB	N.EDA	0.9091386	Transformed t-test	8	
IL	SC - RB	N.HR	0.8203125	Wilcoxon	9	
IL	SC - WB	PP	0.1501126	Transformed t-test	13	
IL	SC - WB	HR	0.0000160	t-test	14	***
IL	SC - WB	BR	0.0056543	t-test	13	**
IL	SC - WB	N.EDA	0.2689461	Transformed t-test	8	
IL	SC - WB	N.HR	0.4257812	Wilcoxon	9	
IL	DT - RB	PP	0.0000074	Transformed t-test	13	***
IL	DT - RB	HR	0.9564261	t-test	14	
IL	DT - RB	BR	0.0109817	t-test	14	*
IL	DT - RB	N.EDA	0.6976424	Transformed t-test	8	
IL	DT - RB	N.HR	0.7343750	Wilcoxon	9	
IL	DT - WB	PP	0.4897627	Transformed t-test	13	
IL	DT - WB	HR	0.0153782	t-test	14	*
IL	DT - WB	BR	0.0141019	t-test	13	*
IL	DT - WB	N.EDA	0.3364517	Transformed t-test	8	
IL	DT - WB	N.HR	0.2031250	Wilcoxon	9	
IL	DT - SC	PP	0.0502407	Transformed t-test	13	
IL	DT - SC	HR	0.4432256	t-test	14	
IL	DT - SC	BR	0.0396767	t-test	14	*
IL	DT - SC	N.EDA	0.6807010	Transformed t-test	8	
IL	DT - SC	N.HR	0.9101562	Wilcoxon	9	
-IL	P - RB	PP	0.0000892	Transformed t-test	11	***
IL	P - RB	HR	0.0552440	t-test	11	
IL	P - RB	BR	0.8861670	t-test	11	
IL	P - RB	N.EDA	0.2730305	Transformed t-test	7	
IL	P - RB	N.HR	0.4609375	Wilcoxon	8	
IL	P - WB	PP	0.0054046	Transformed t-test	11	**
111	1 ,,,,		3.0031010	Transformed 0 0000		

Condition	Difference	Measure	р	Test	n	Significance
IL	P - WB	HR	0.1202428	t-test	11	
IL	P - WB	BR	0.0004079	t-test	10	***
IL	P - WB	N.EDA	0.1190078	Transformed t-test	7	
IL	P - WB	N.HR	0.3125000	Wilcoxon	8	
IL	P - SC	PP	0.0011554	Transformed t-test	11	**
IL	P - SC	HR	0.0209275	t-test	11	*
IL	P - SC	BR	0.3485936	t-test	11	
IL	P - SC	N.EDA	0.3206676	Transformed t-test	7	
IL	P - SC	N.HR	0.7421875	Wilcoxon	8	
IL	P - DT	PP	0.0015878	Transformed t-test	11	**
IL	P - DT	HR	0.0093801	t-test	11	**
IL	P - DT	BR	0.0001746	t-test	11	***
IL	P - DT	N.EDA	0.0707182	Transformed t-test	8	
IL	P - DT	N.HR	0.7421875	Wilcoxon	8	