

Hypothesis Testing for NSF Office Stress Project - Reduced Sensor Set

Below are the test results for each of the Conditions that had $n \geq 7$ 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:

* = $0.01 < p \leq 0.05$

** = $0.001 < p \leq 0.01$

*** = $p \leq 0.001$

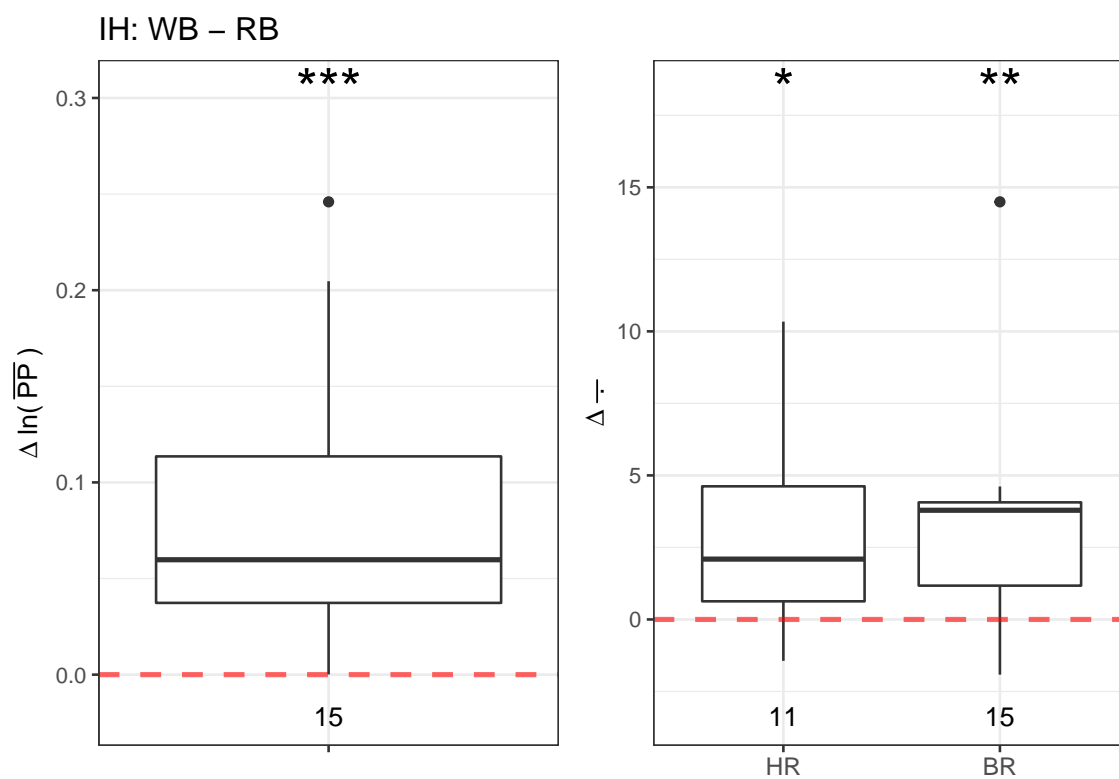
? = Did not run statistical test ($n < 7$)

Differences in **Reduced Sensor Set**:

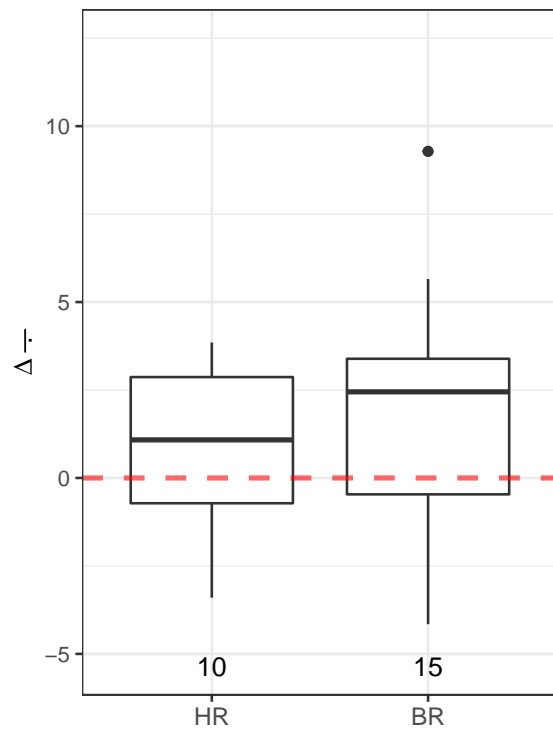
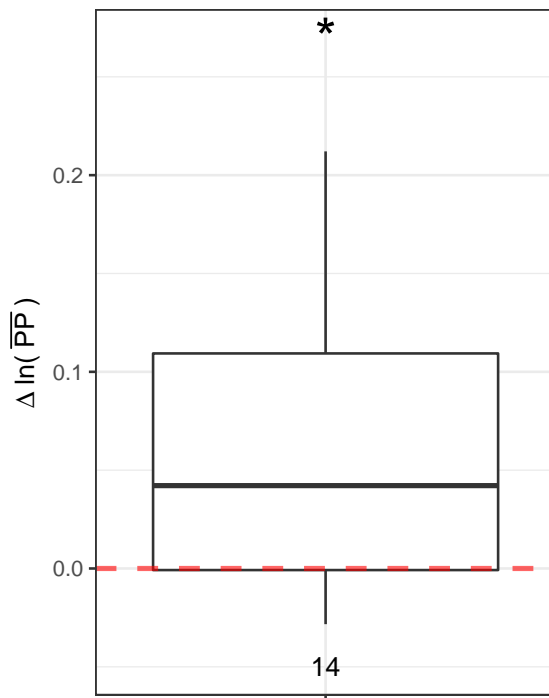
- Signals for D.EDA, N.EDA, D.HR, and N.HR are removed completely.
- **Breathing Rate** (BR) measurements for the **Presentation** session are removed completely.
- Easier on the eyes.

Intermittent-High (IH)

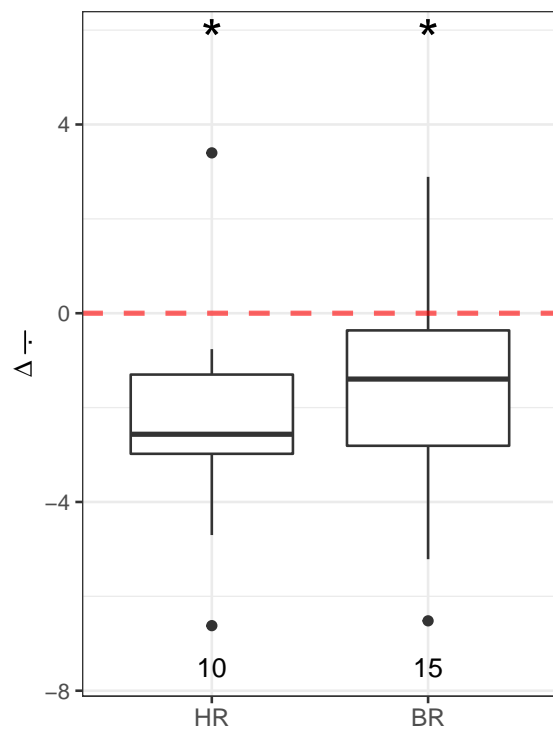
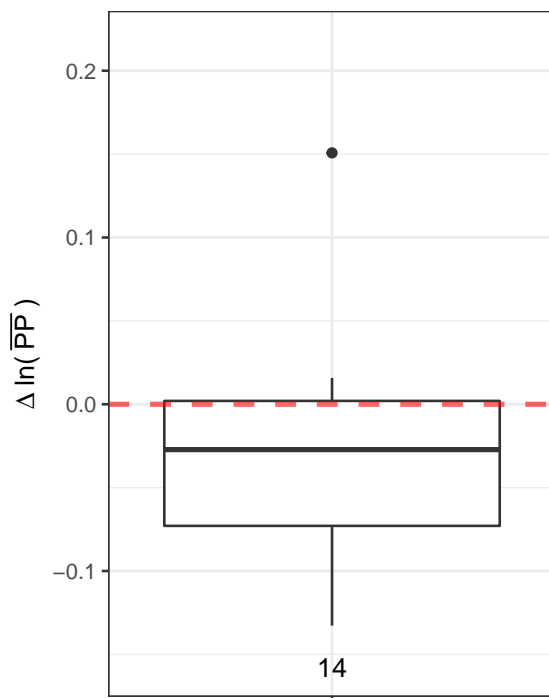
Sensor Channels per Session

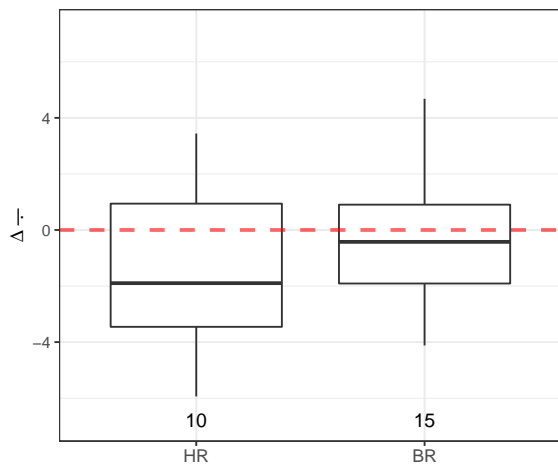
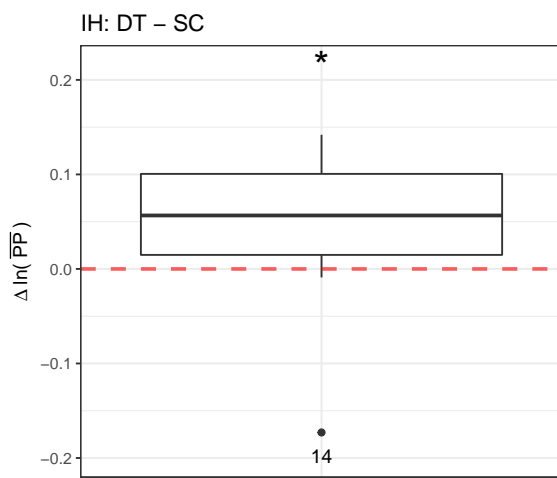
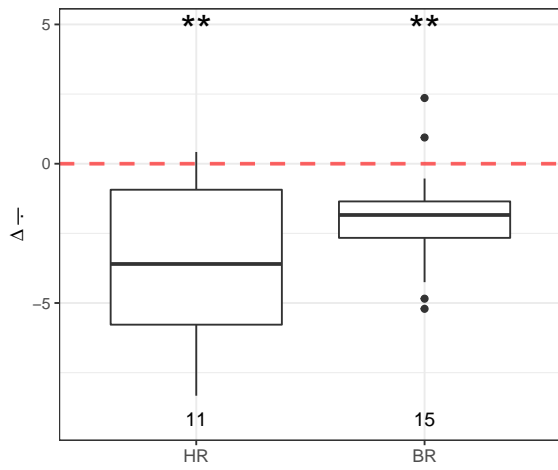
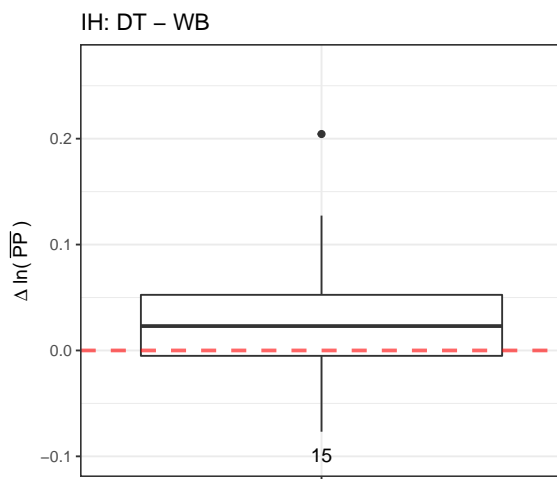
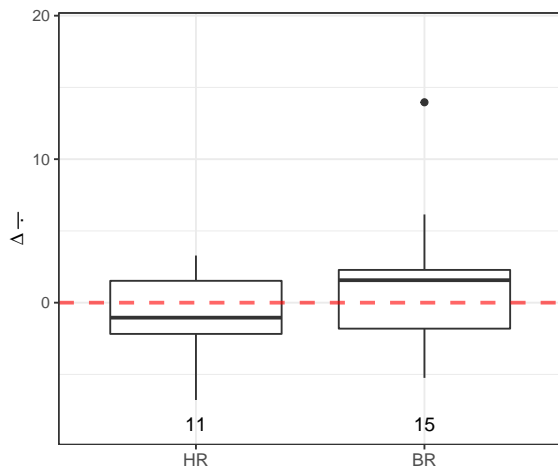
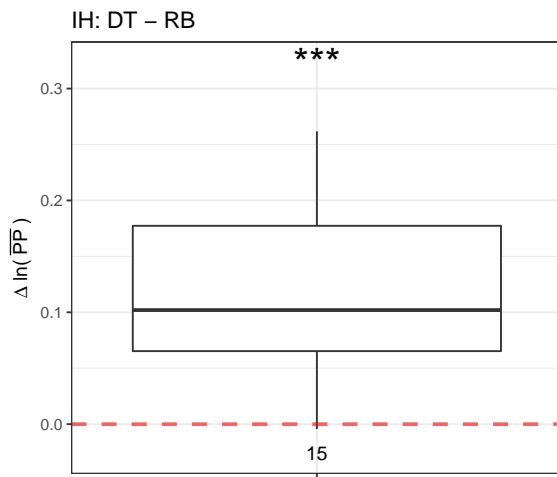


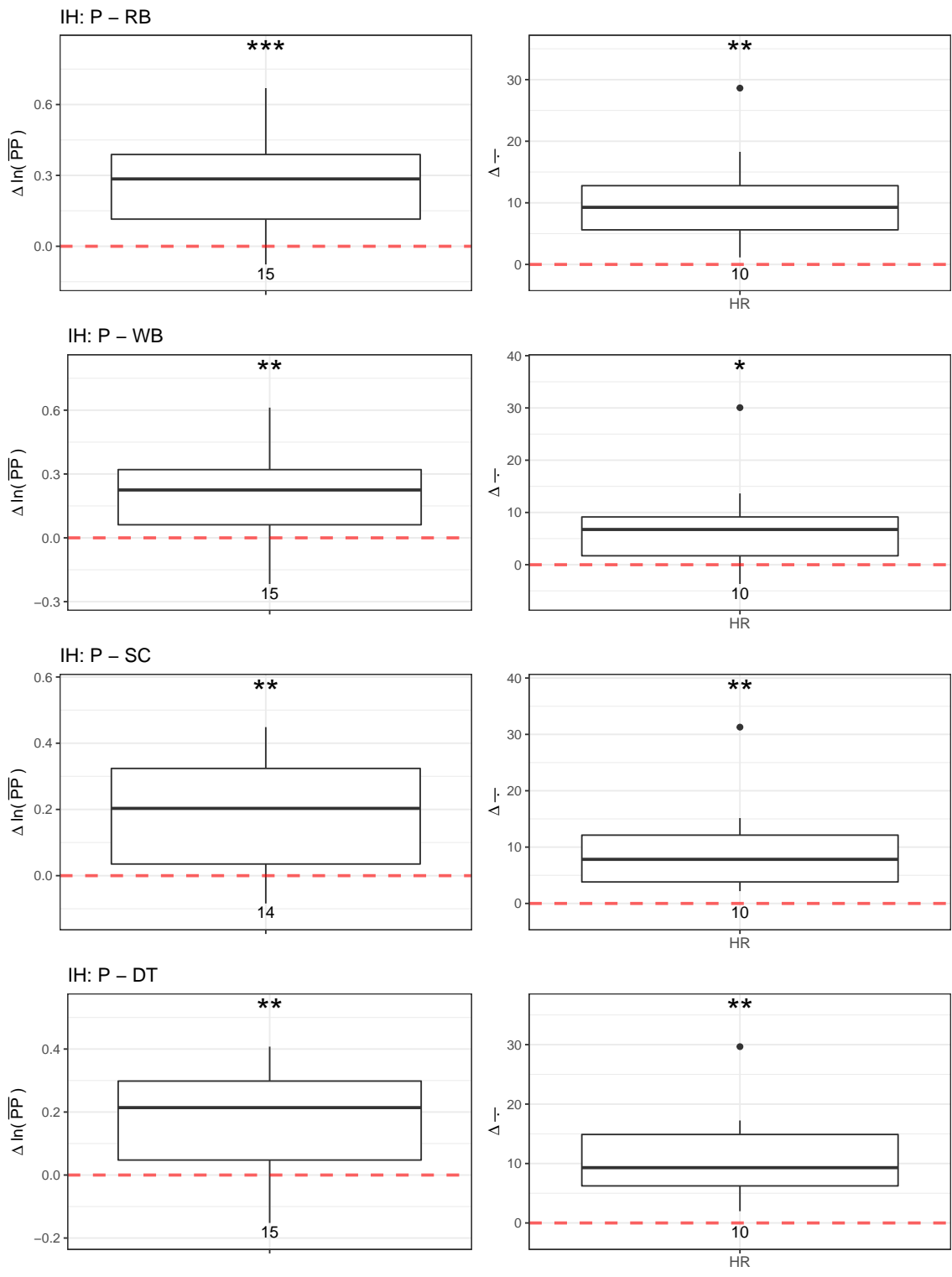
IH: SC – RB



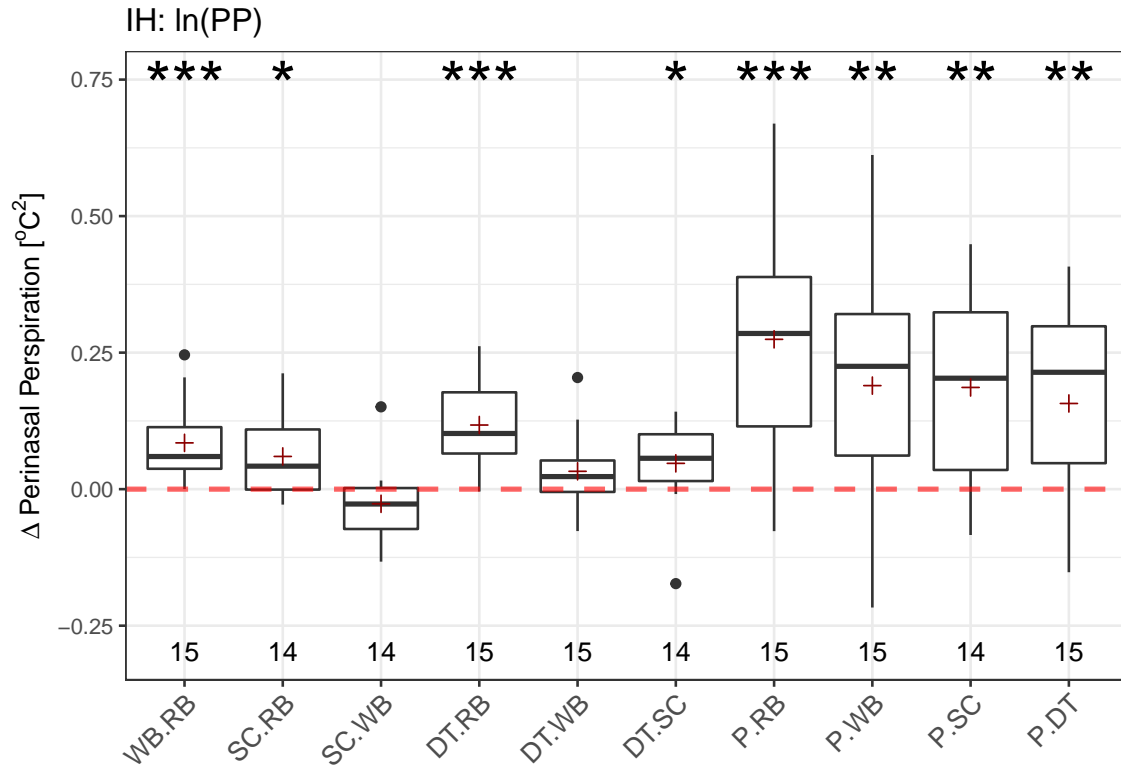
IH: SC – WB





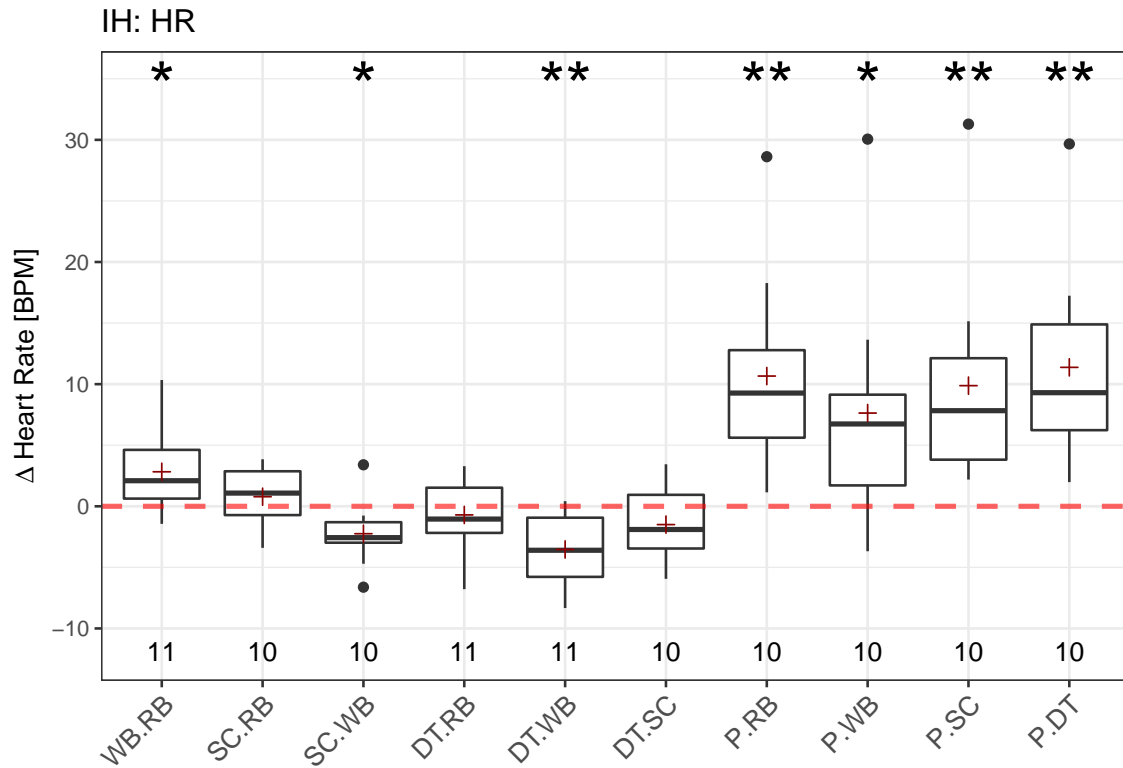


Sensor Channel across Session



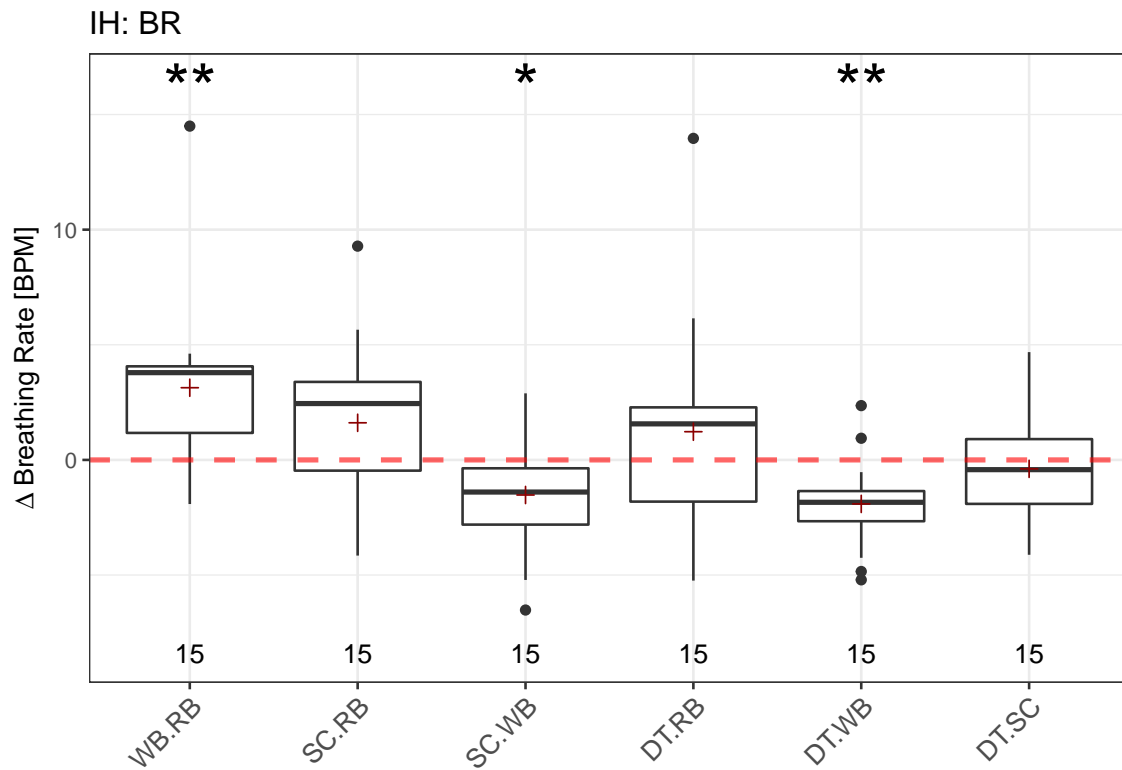
```
## In the following tests, we applied ln(PP).
##
## Writing Baseline - Resting Baseline
## t-test p = 5e-04 < 0.001 ***
##
## Stress Condition - Resting Baseline
## t-test p = 0.0123 < 0.05 *
##
## StressCondition - Writing Baseline
## t-test p = 0.1695 > 0.05
##
## Dual Task - Resting Baseline
##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

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

```
## 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
```

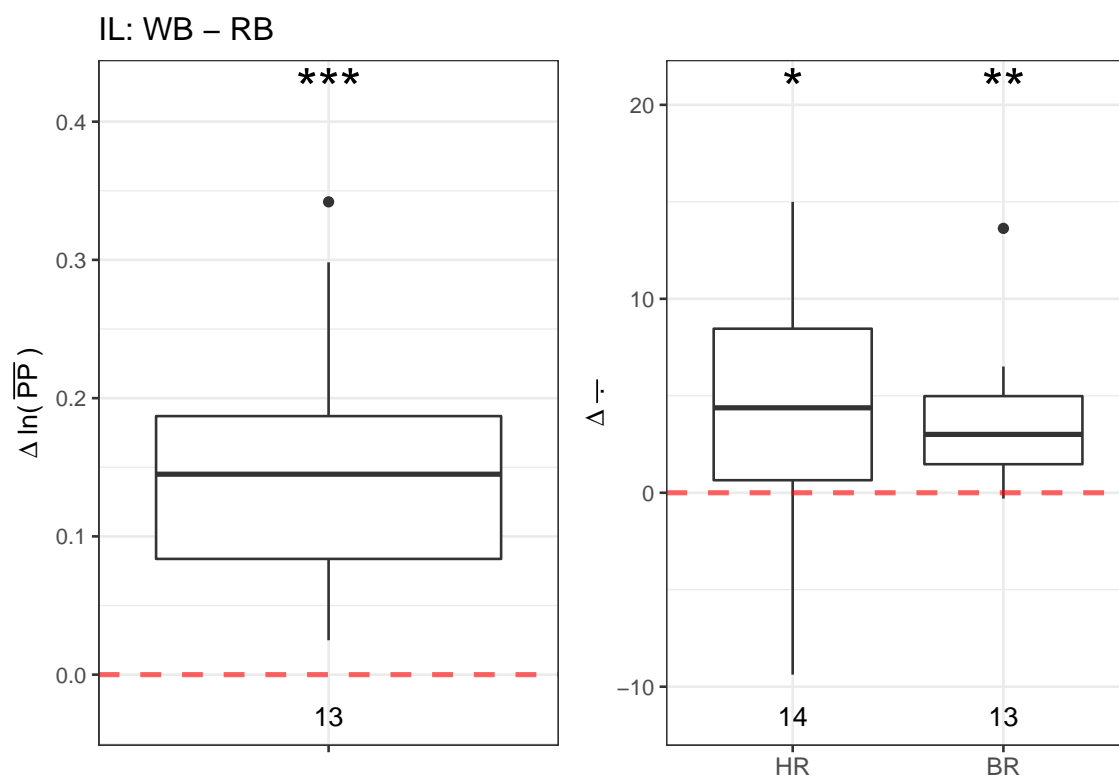
```
## t-test p = 0.0063 < 0.01 **  
##  
## Presentation - Dual Task  
## t-test p = 0.0015 < 0.01 **
```



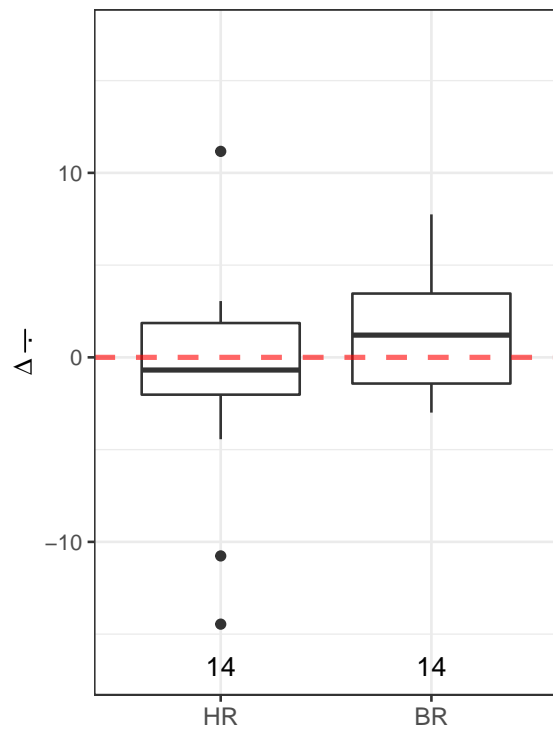
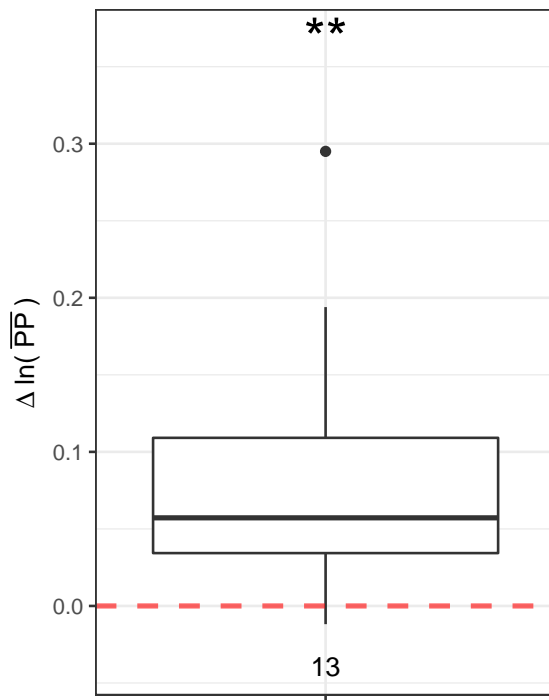
```
## Writing Baseline - Resting Baseline
## t-test p = 0.0075 < 0.01 **
##
## Stress Condition - Resting Baseline
## t-test p = 0.1189 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0318 < 0.05 *
##
## Dual Task - Resting Baseline
## t-test p = 0.3323 > 0.05
##
## Dual Task - Writing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


Intermittent-Low (IL)

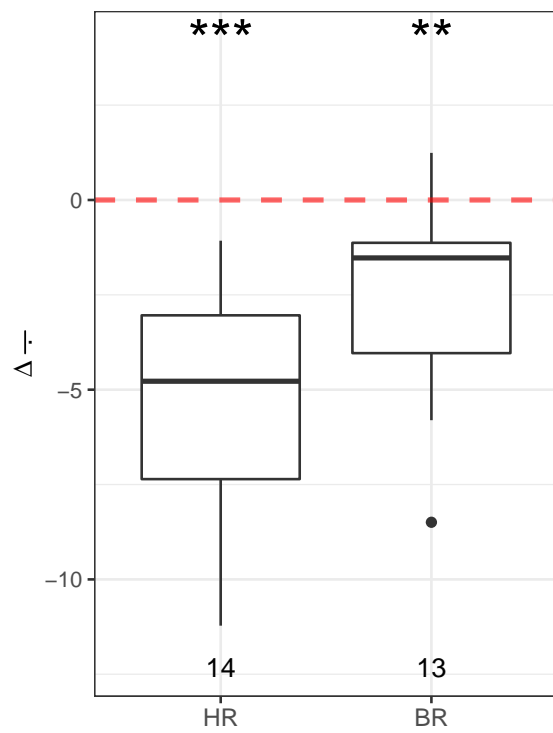
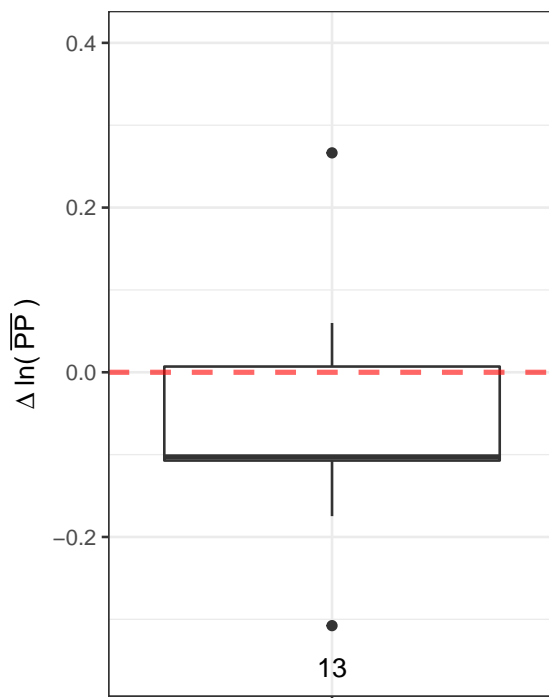
Sensor Channels per Session

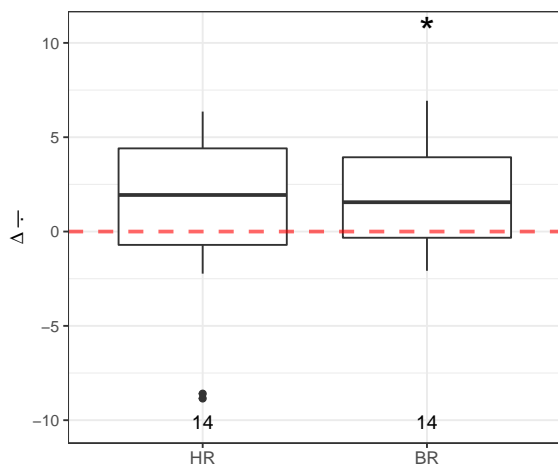
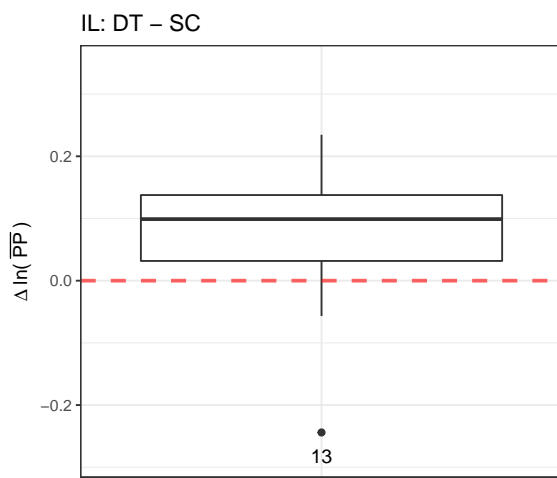
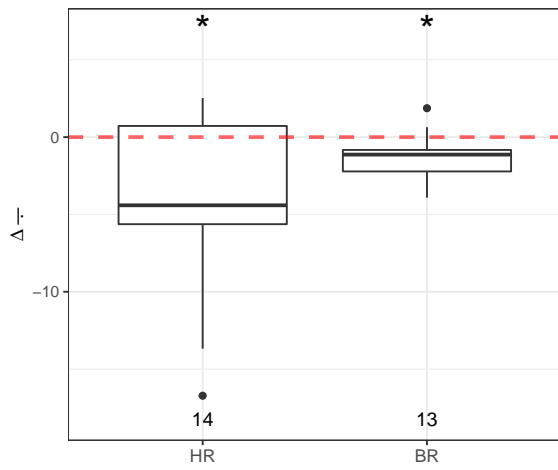
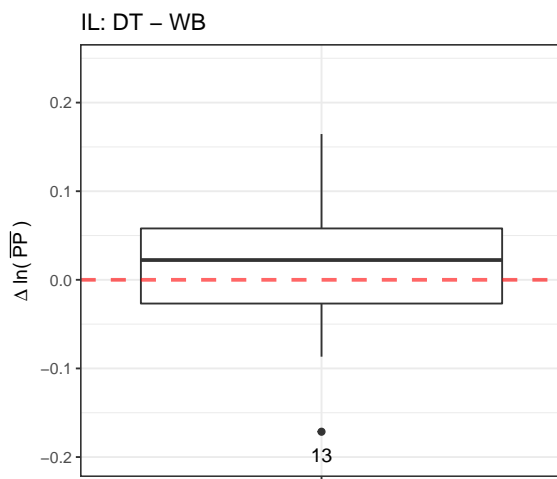
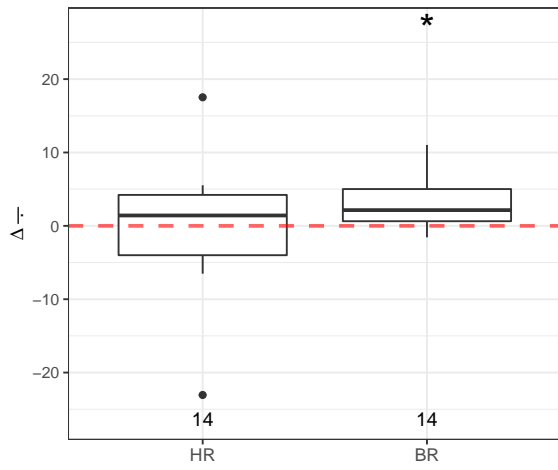
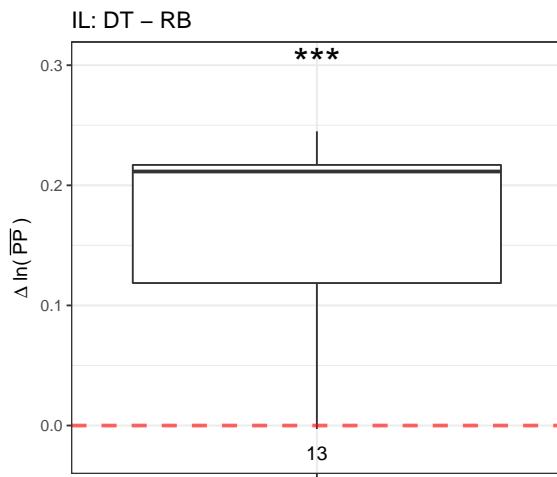


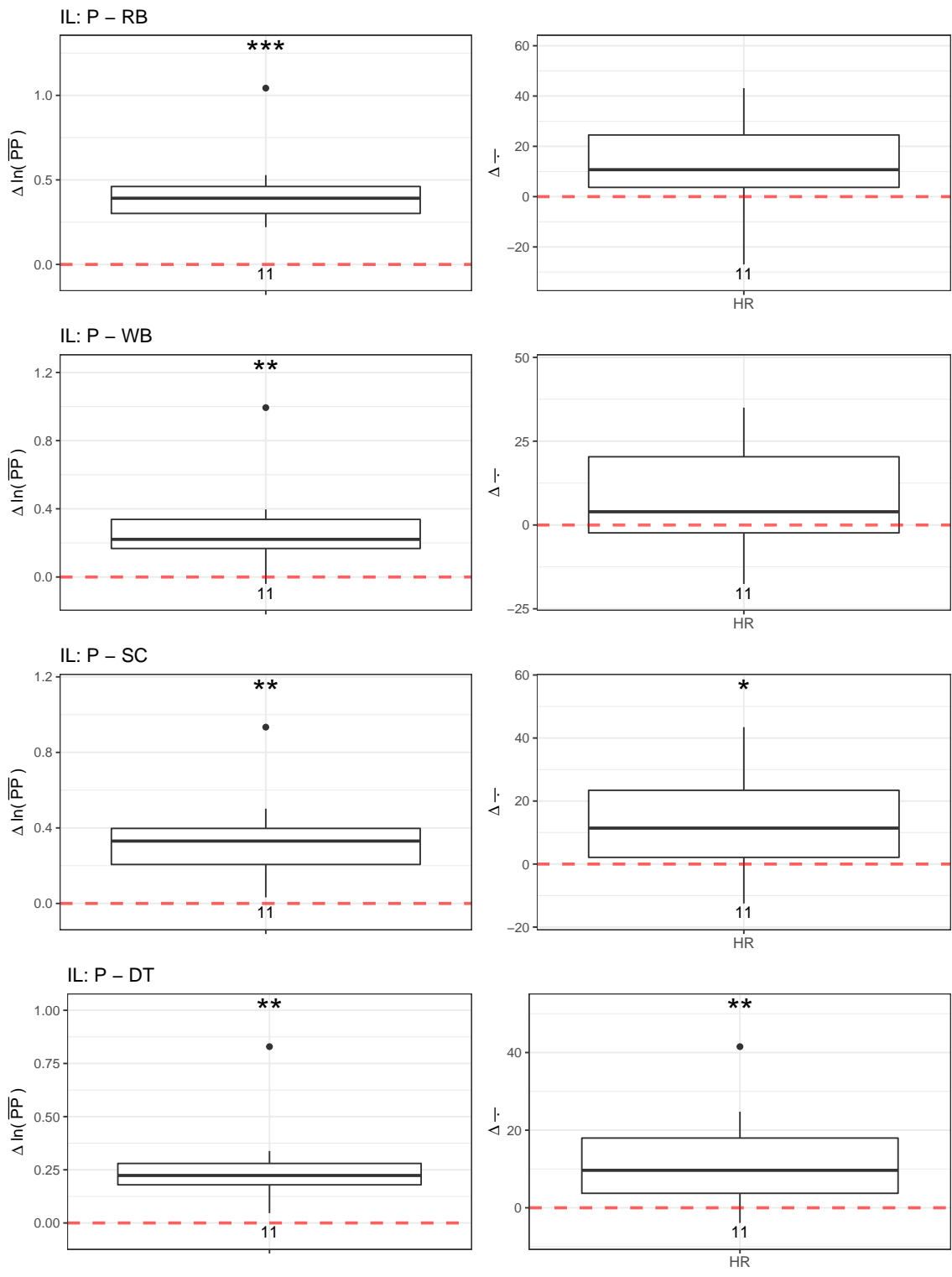
IL: SC – RB



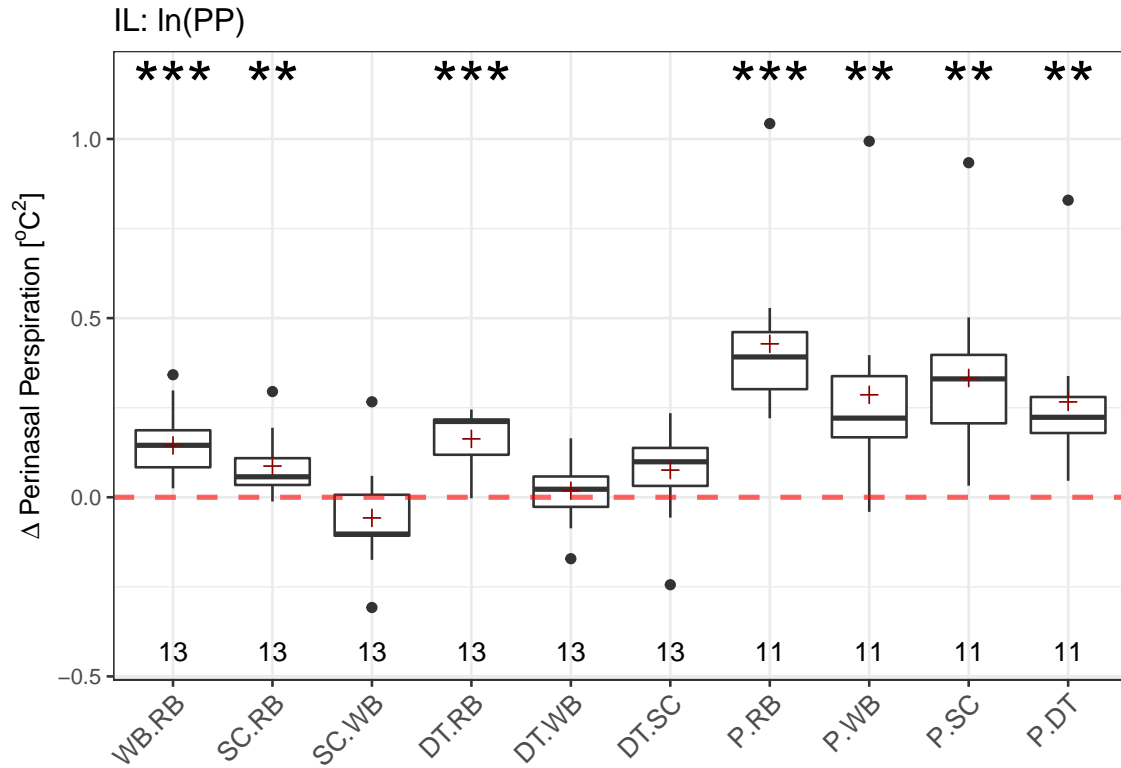
IL: SC – WB





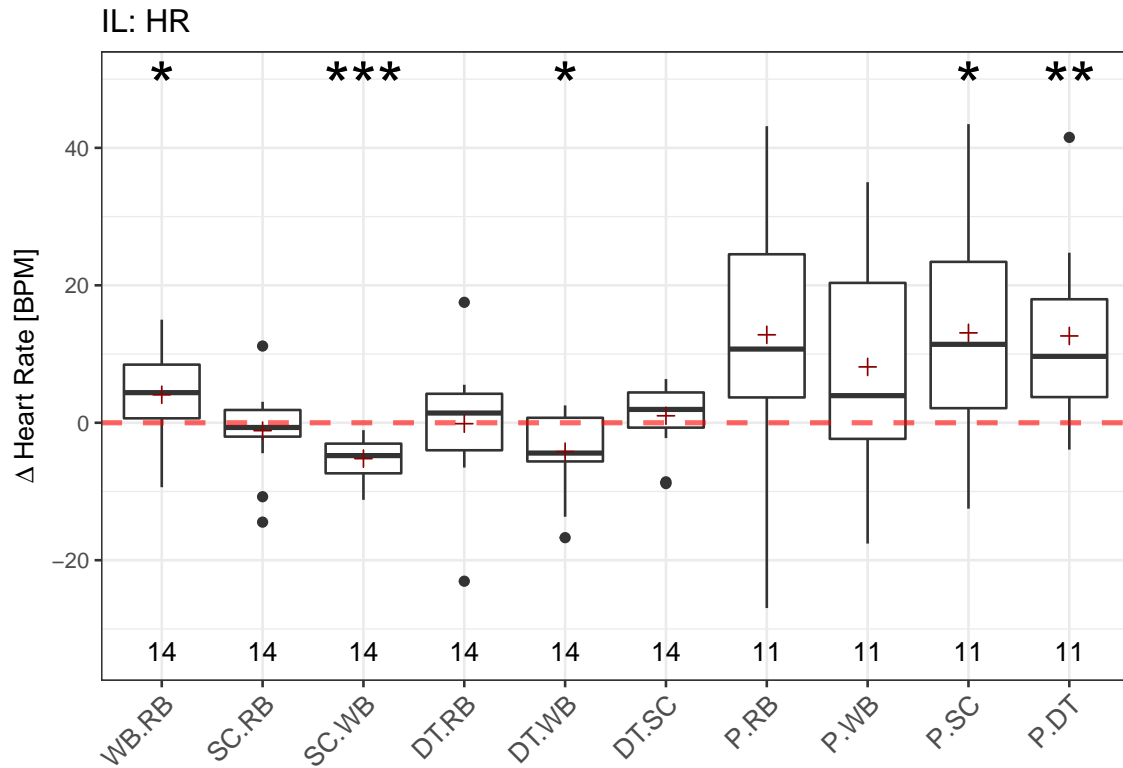


Sensor Channel across Session



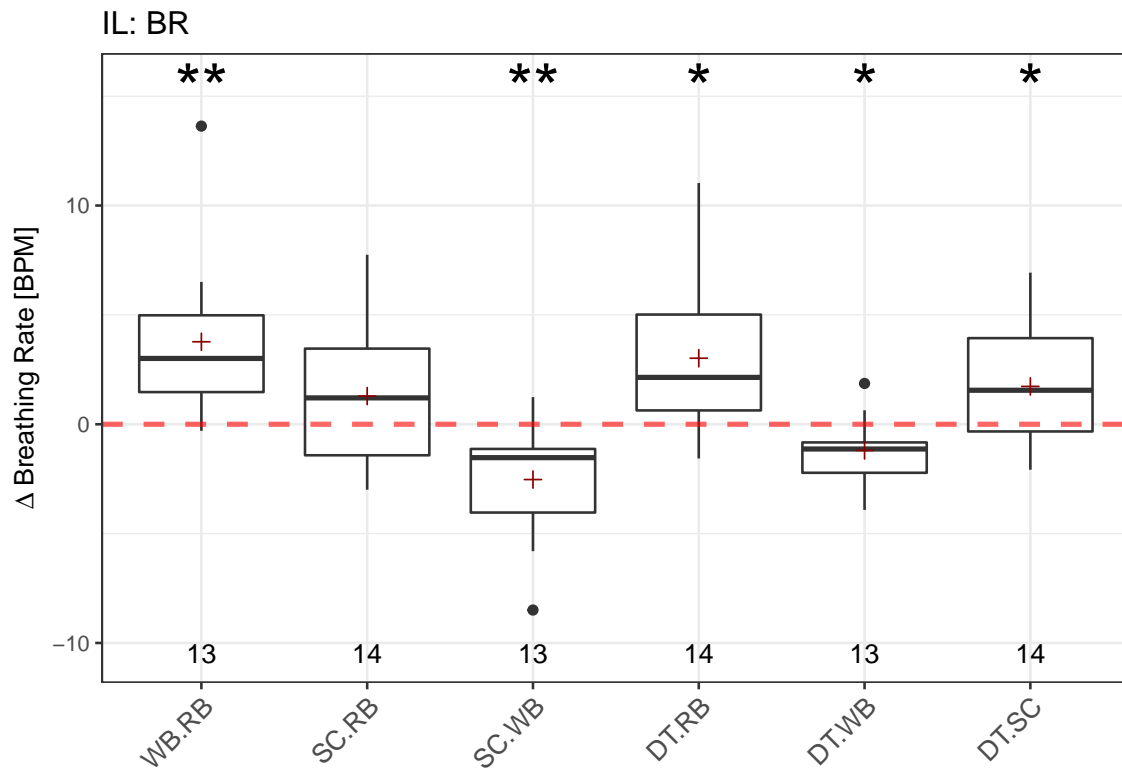
```
## Writing Baseline - Resting Baseline
## t-test p = 2e-04 < 0.001 ***
##
## Stress Condition - Resting Baseline
## t-test p = 0.0048 < 0.01 **
##
## StressCondition - Writing Baseline
## t-test p = 0.1501 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0 < 0.001 ***
##
## Dual Task - Writing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

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



```
## 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
```

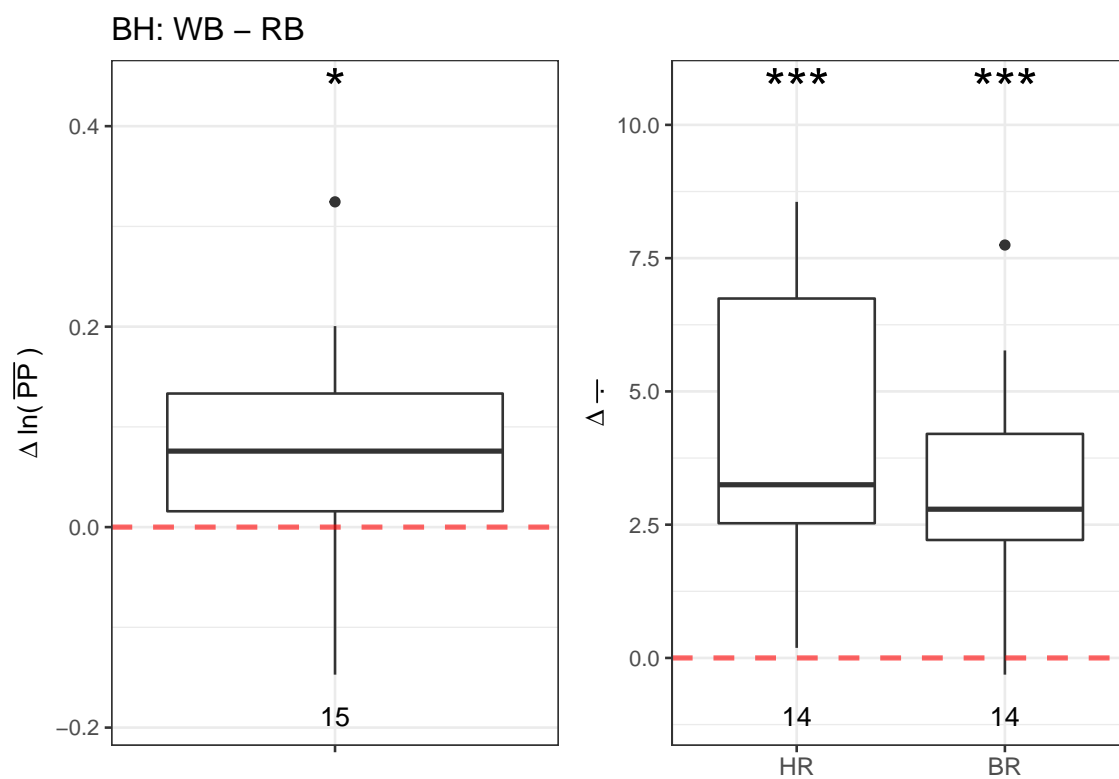
```
## t-test p = 0.0209 < 0.05  *  
##  
## Presentation - Dual Task  
## t-test p = 0.0094 < 0.01  **
```



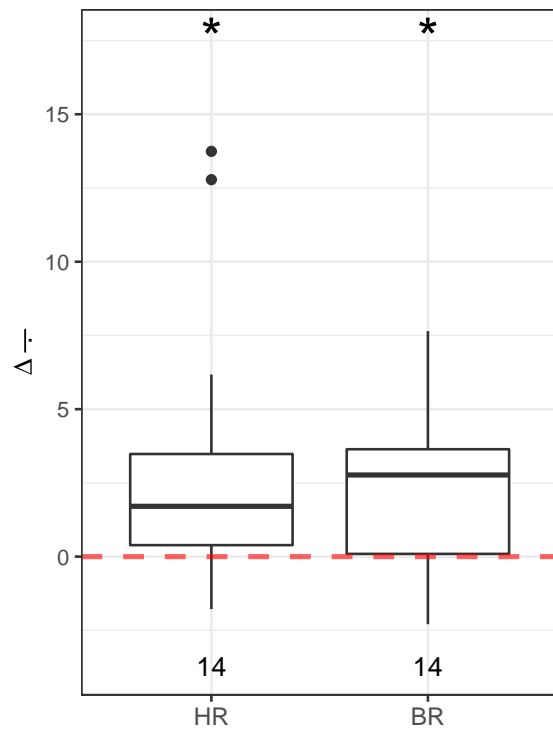
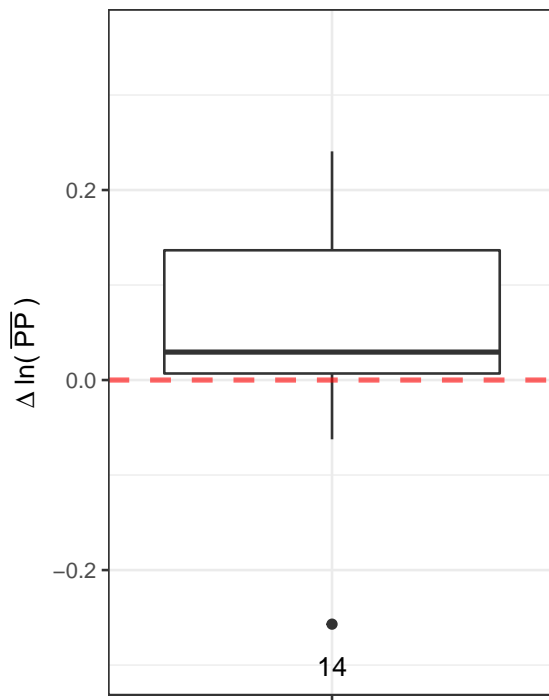
```
## Writing Baseline - Resting Baseline
## t-test p = 0.0029 < 0.01  **
##
## Stress Condition - Resting Baseline
## t-test p = 0.1716 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0057 < 0.01  **
##
## Dual Task - Resting Baseline
## t-test p = 0.011 < 0.05  *
##
## Dual Task -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


Batch-High (BH)

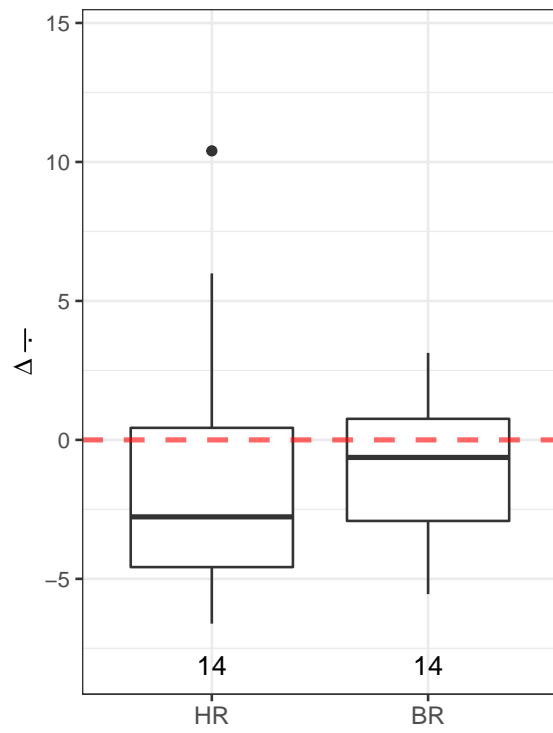
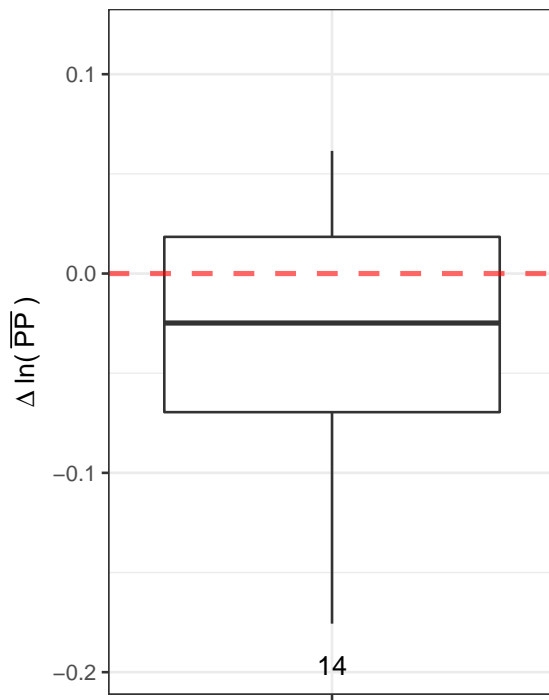
Sensor Channels per Session



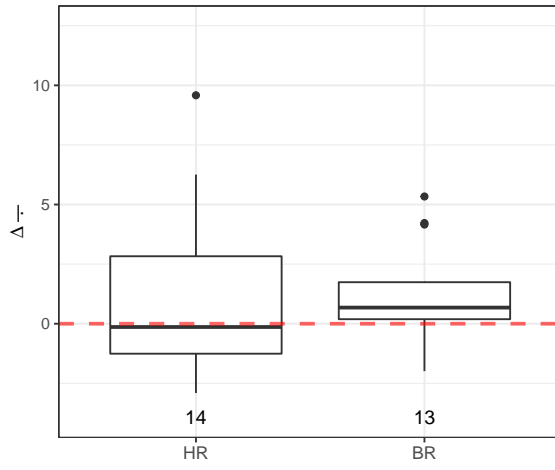
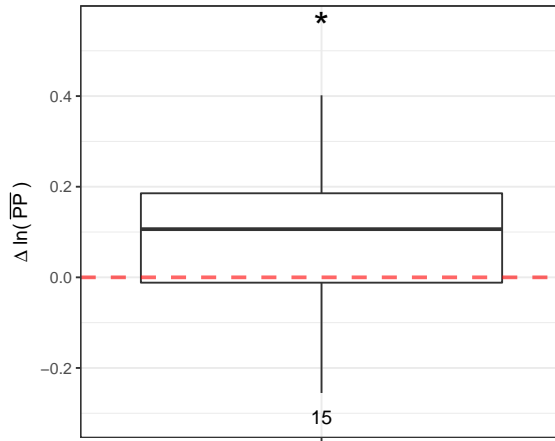
BH: SC – RB



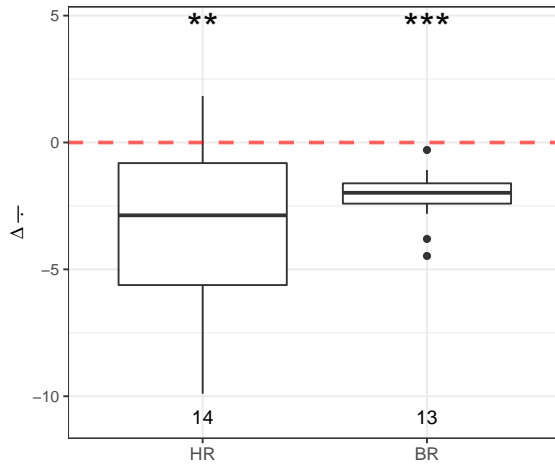
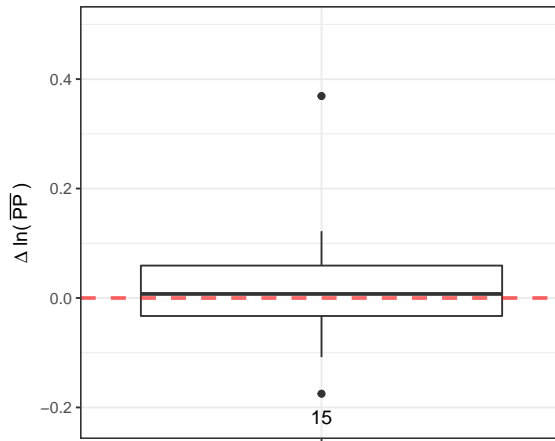
BH: SC – WB



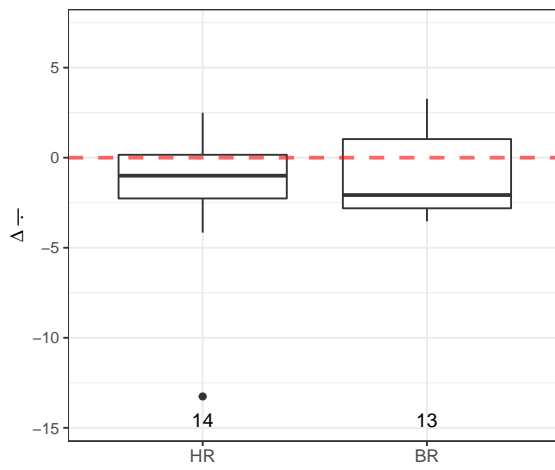
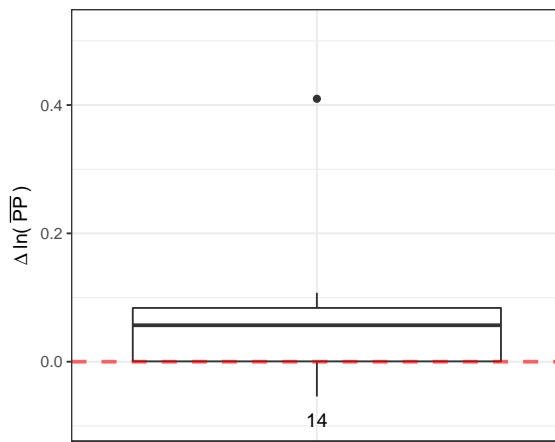
BH: DT – RB

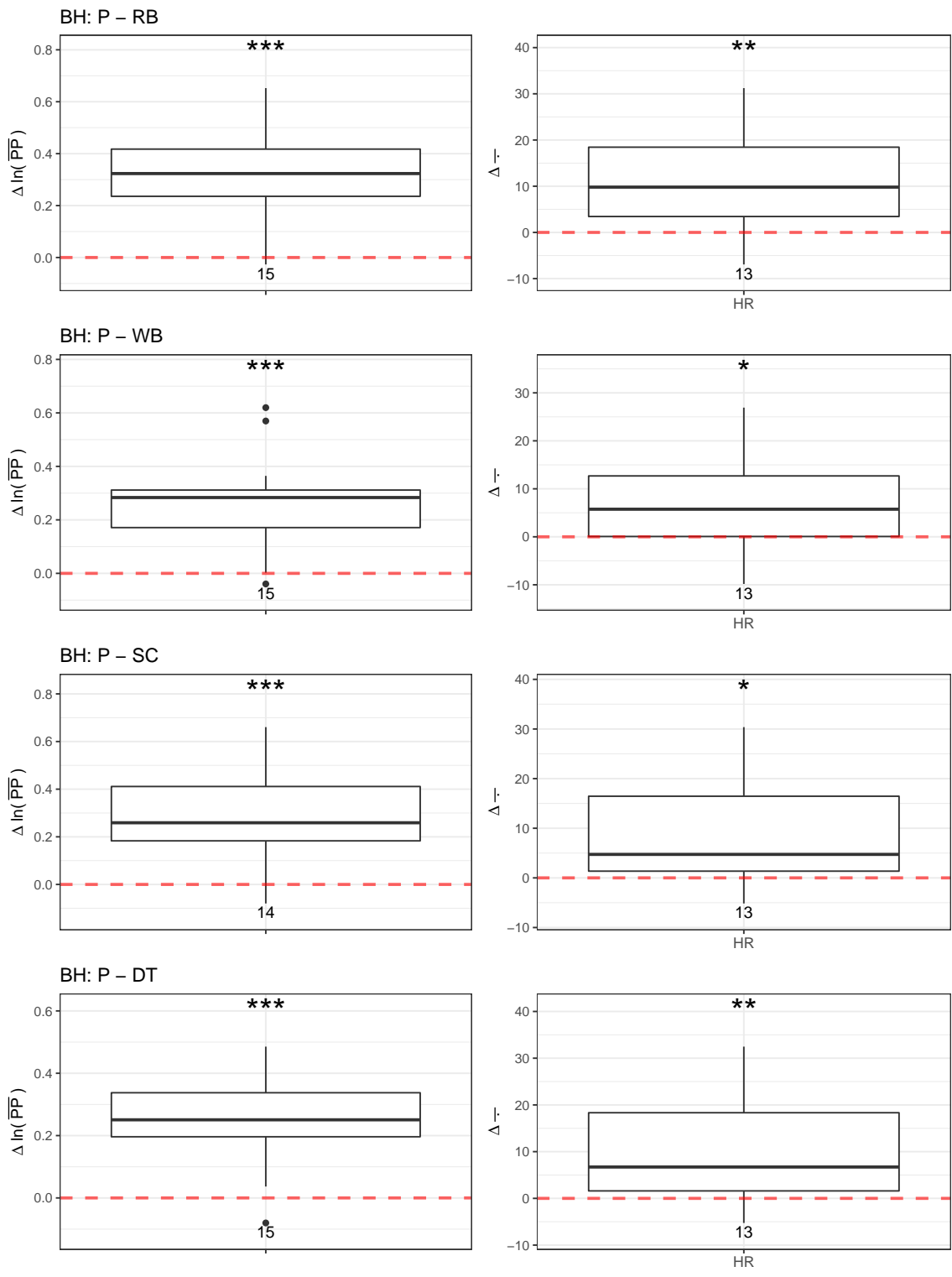


BH: DT – WB

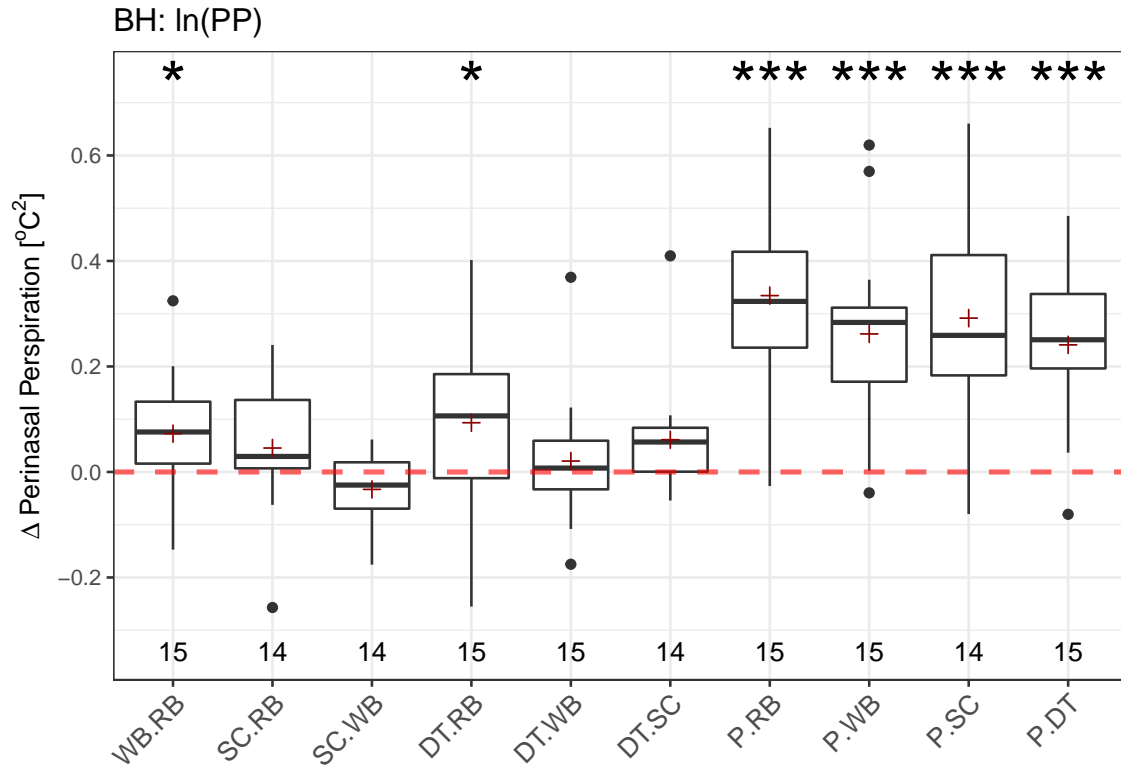


BH: DT – SC



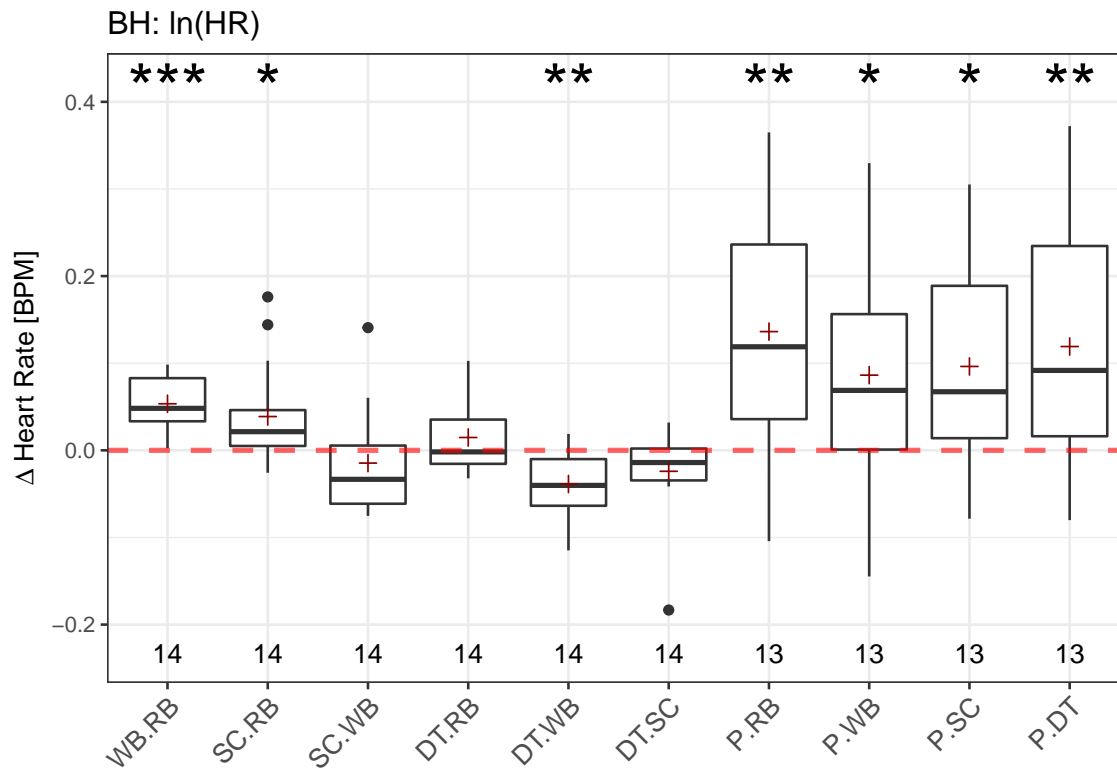


Sensor Channel across Session



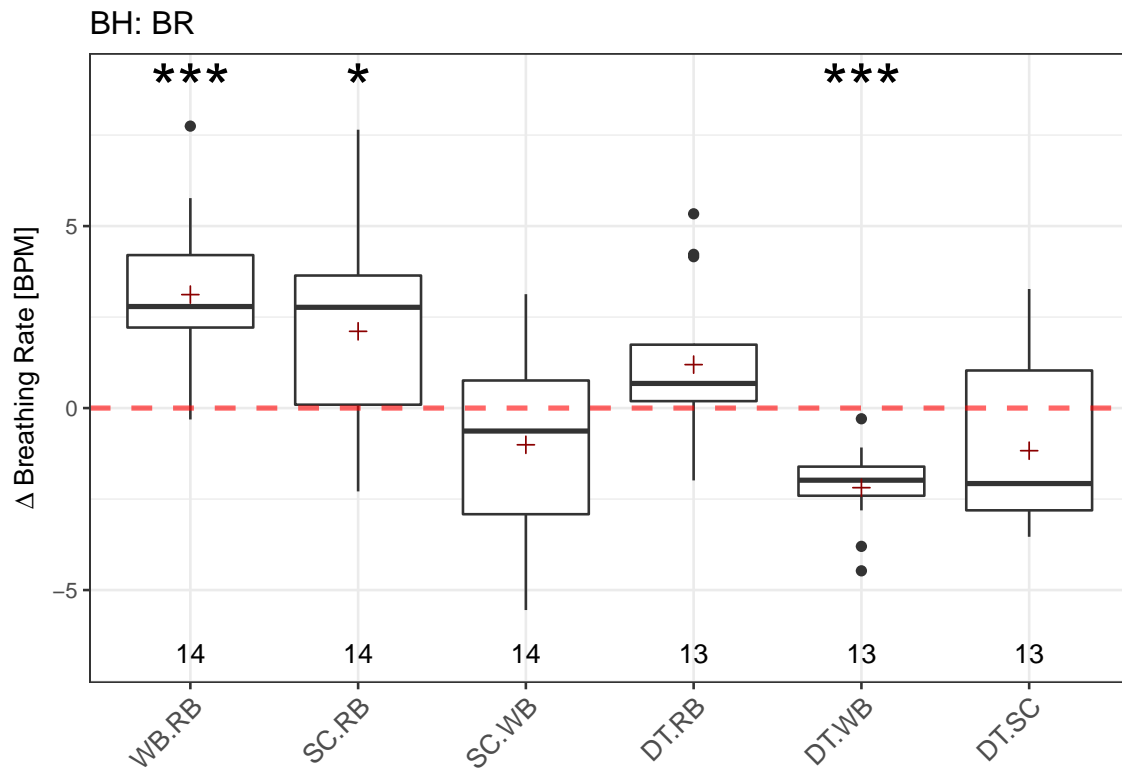
```
## Writing Baseline - Resting Baseline
## t-test p = 0.0219 < 0.05  *
##
## Stress Condition - Resting Baseline
## t-test p = 0.1778 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0974 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.0363 < 0.05  *
##
## Dual Task - Writing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

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



```
## 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  **
```

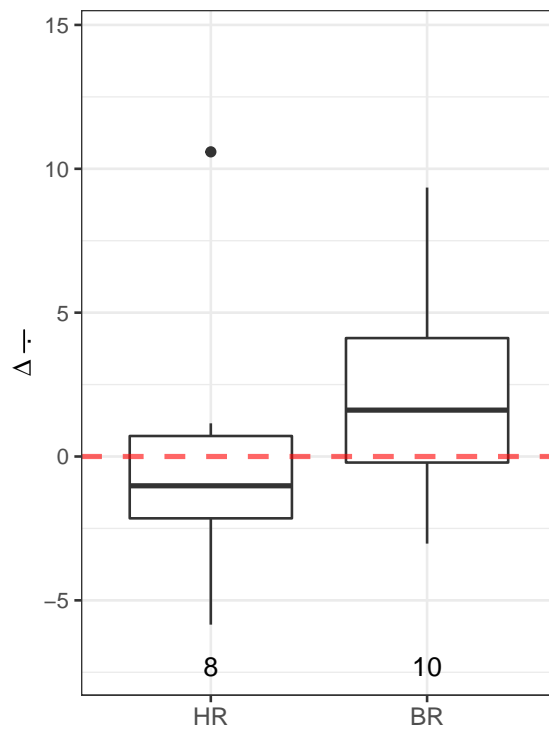
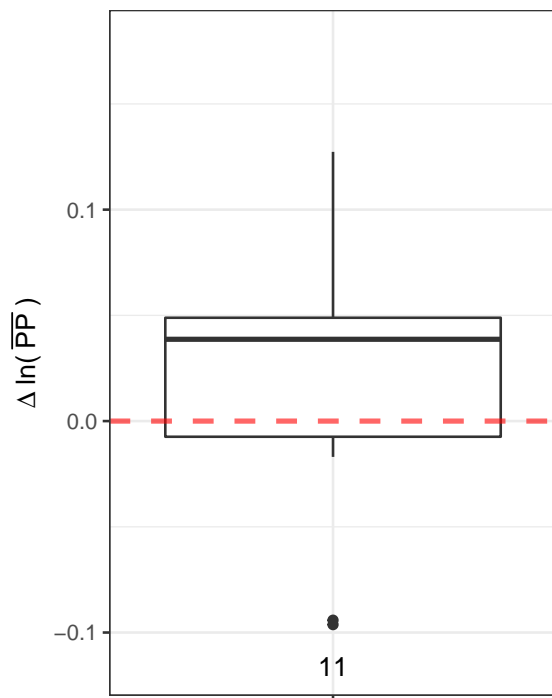



```
## Writing Baseline - Resting Baseline
## t-test p = 1e-04 < 0.001 ***
##
## Stress Condition - Resting Baseline
## t-test p = 0.0167 < 0.05 *
##
## StressCondition - Writing Baseline
## t-test p = 0.1543 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.0745 > 0.05
##
## Dual Task - Writing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

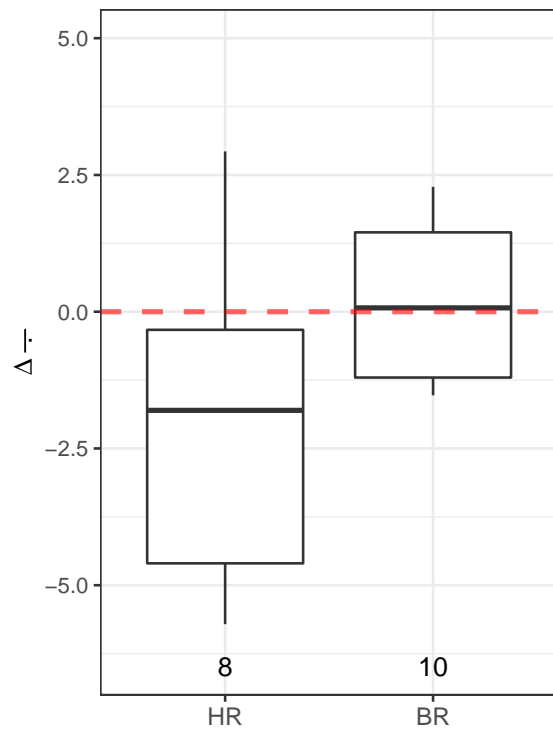
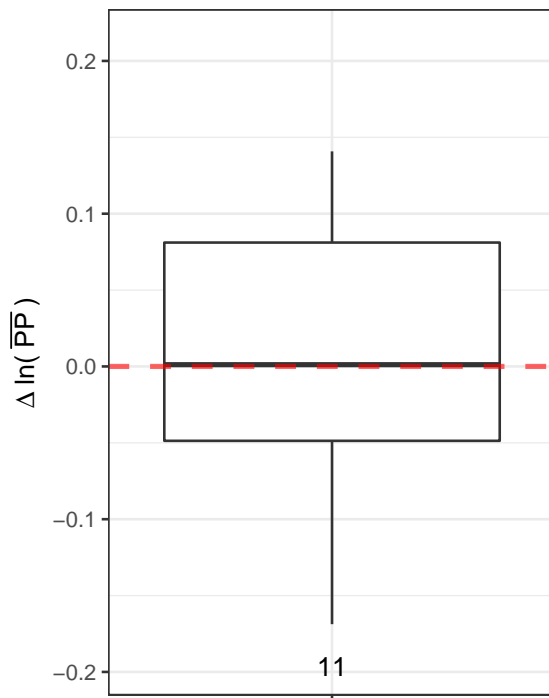

Batch-Low (BL)

Sensor Channels per Session

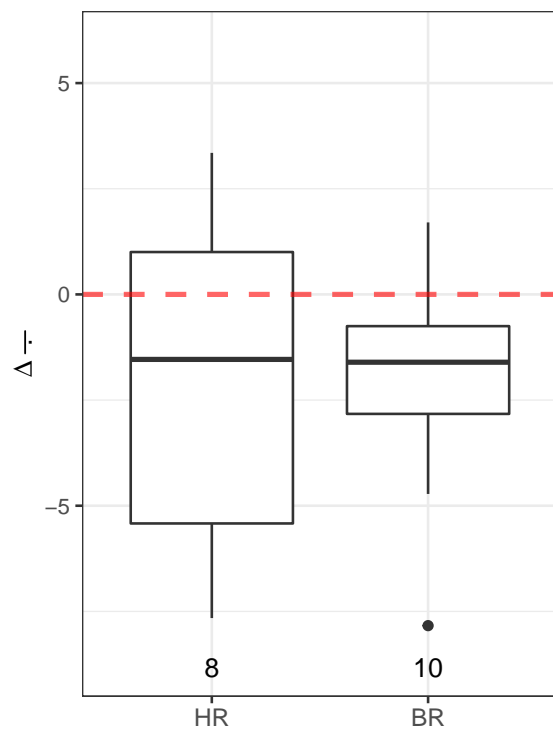
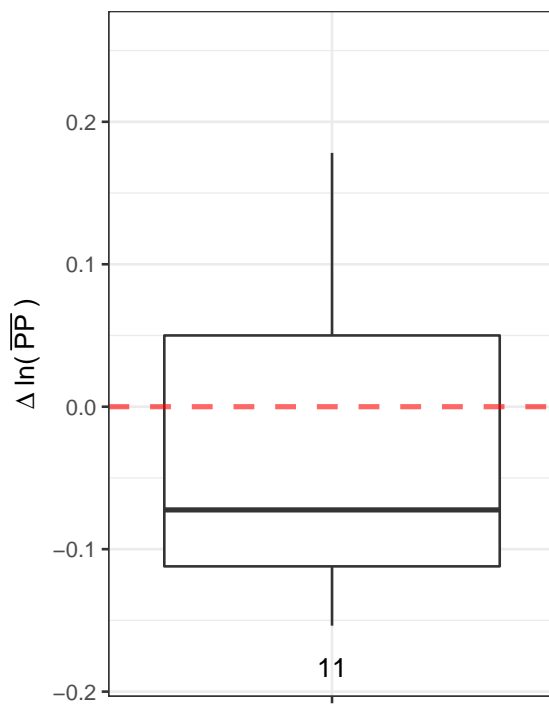
BL: WB – RB



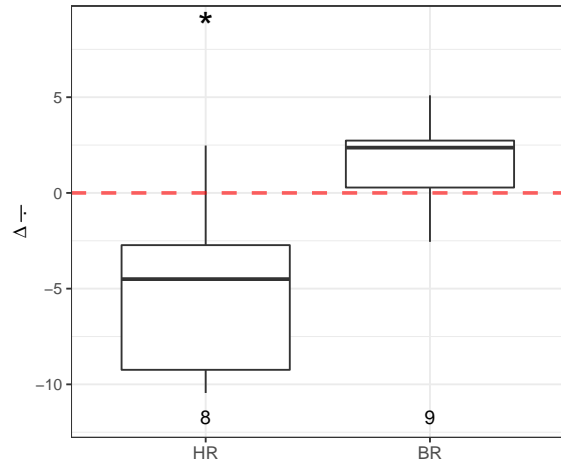
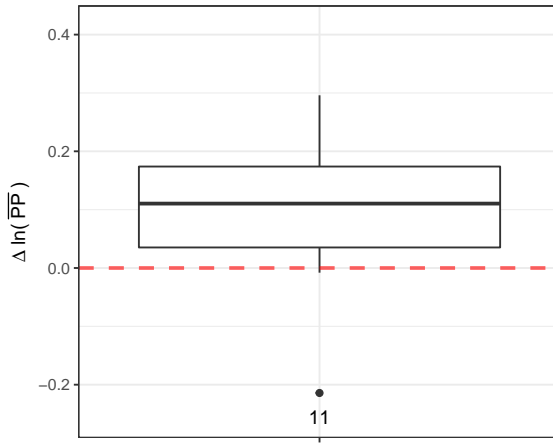
BL: SC – RB



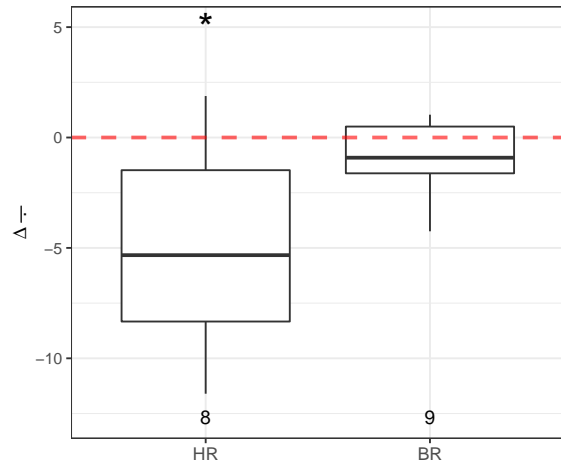
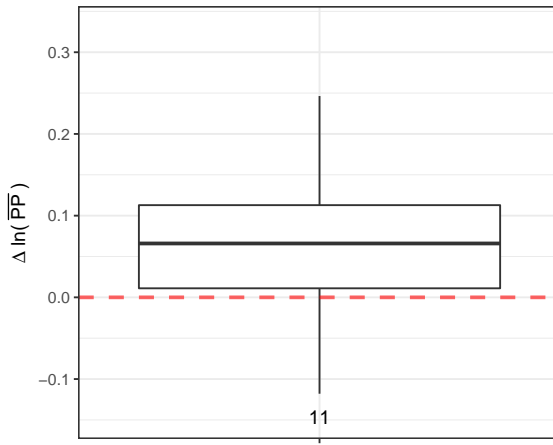
BL: SC – WB



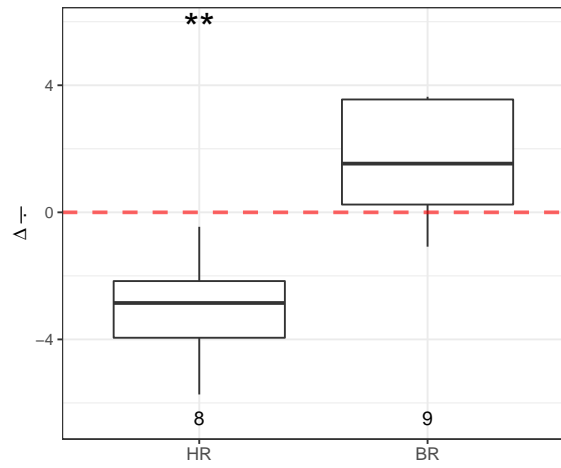
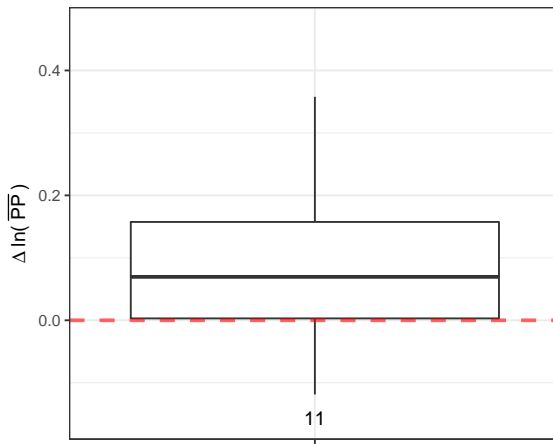
BL: DT – RB



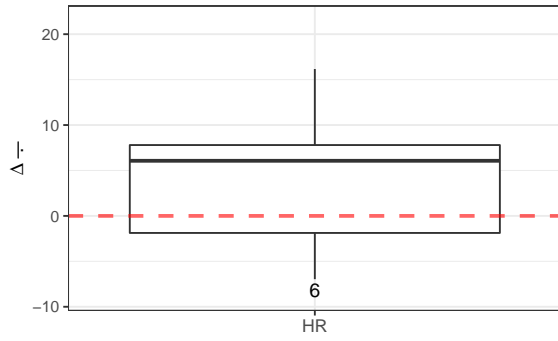
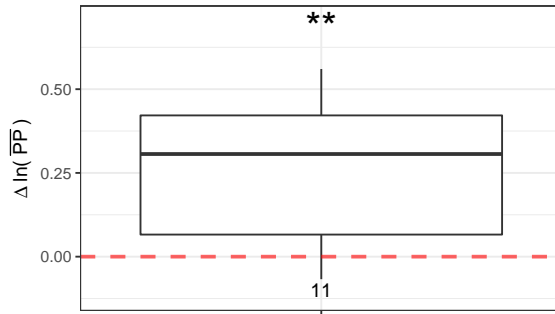
BL: DT – WB



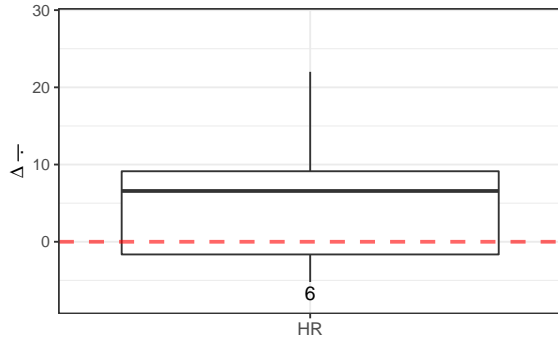
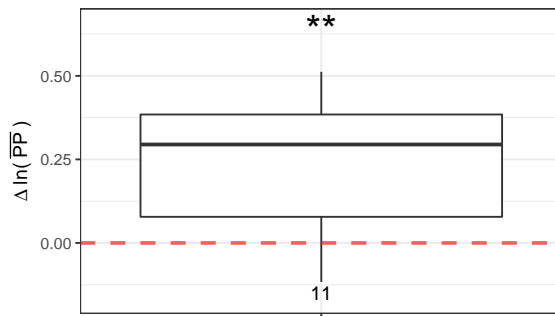
BL: DT – SC



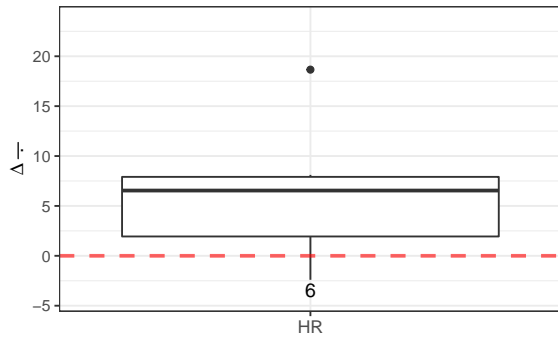
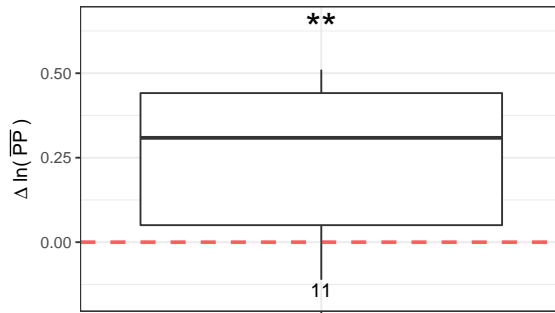
BL: P – RB



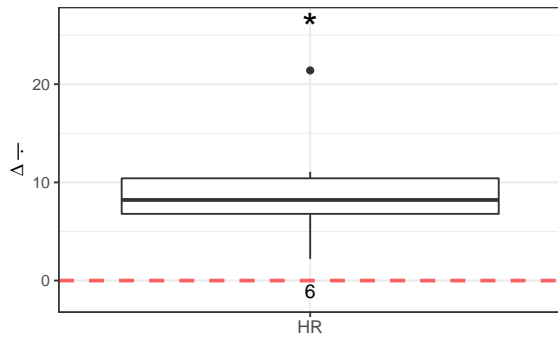
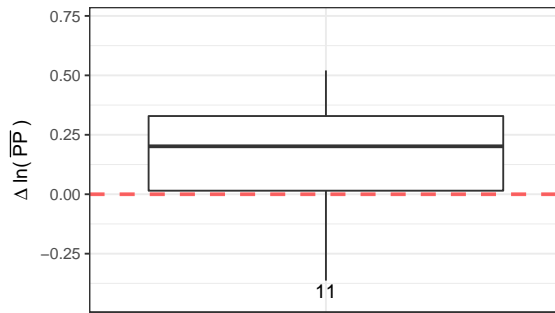
BL: P – WB



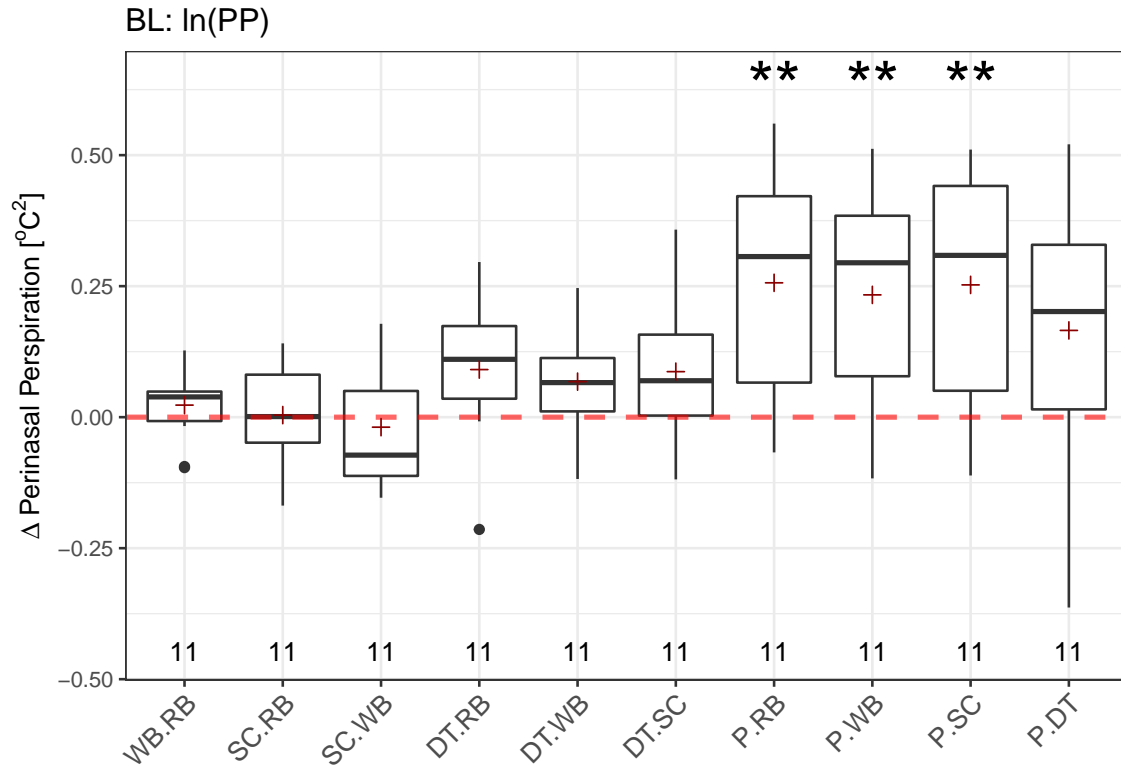
BL: P – SC



BL: P – DT



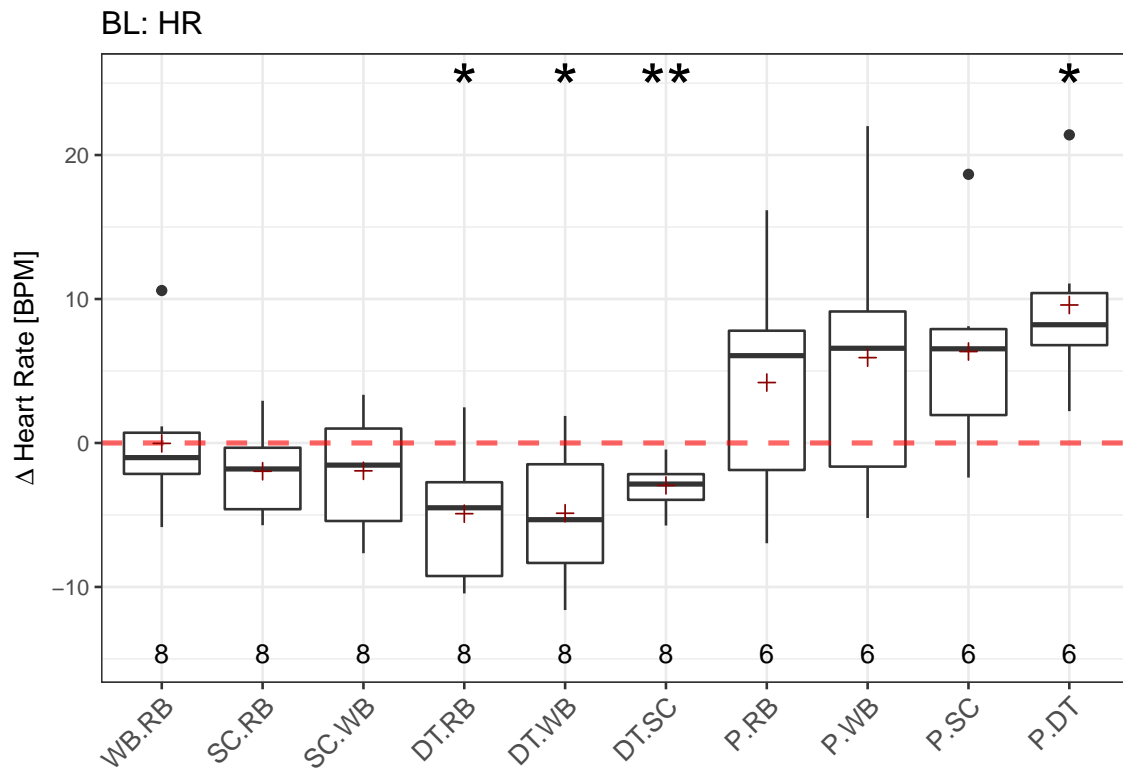
Sensor Channel across Session



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

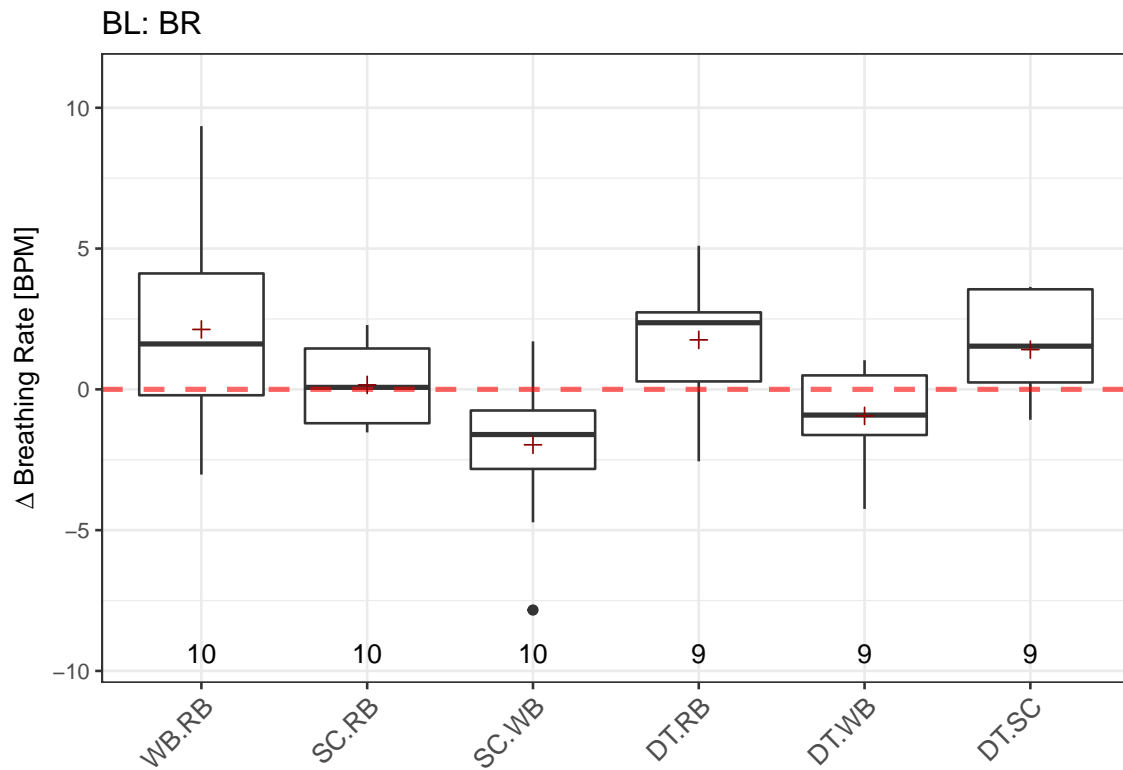


```
##  
## Presentation - Stress Condition  
## t-test p = 0.0039 < 0.01  **  
##  
## Presentation - Dual Task  
## t-test p = 0.0575 > 0.05
```



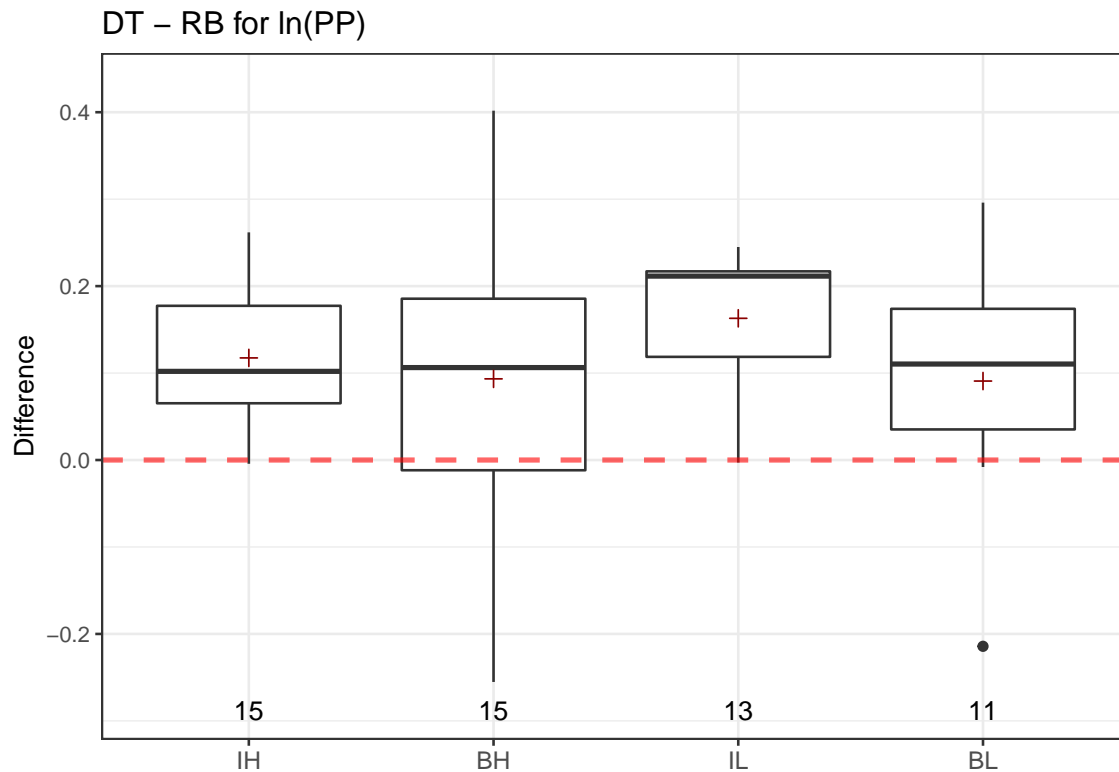
```
## Writing Baseline - Resting Baseline
## t-test p = 0.9869 > 0.05
##
## Stress Condition - Resting Baseline
## t-test p = 0.1034 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.217 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.02 < 0.05  *
##
## Dual Task - Writing Baseline
## 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  *
```

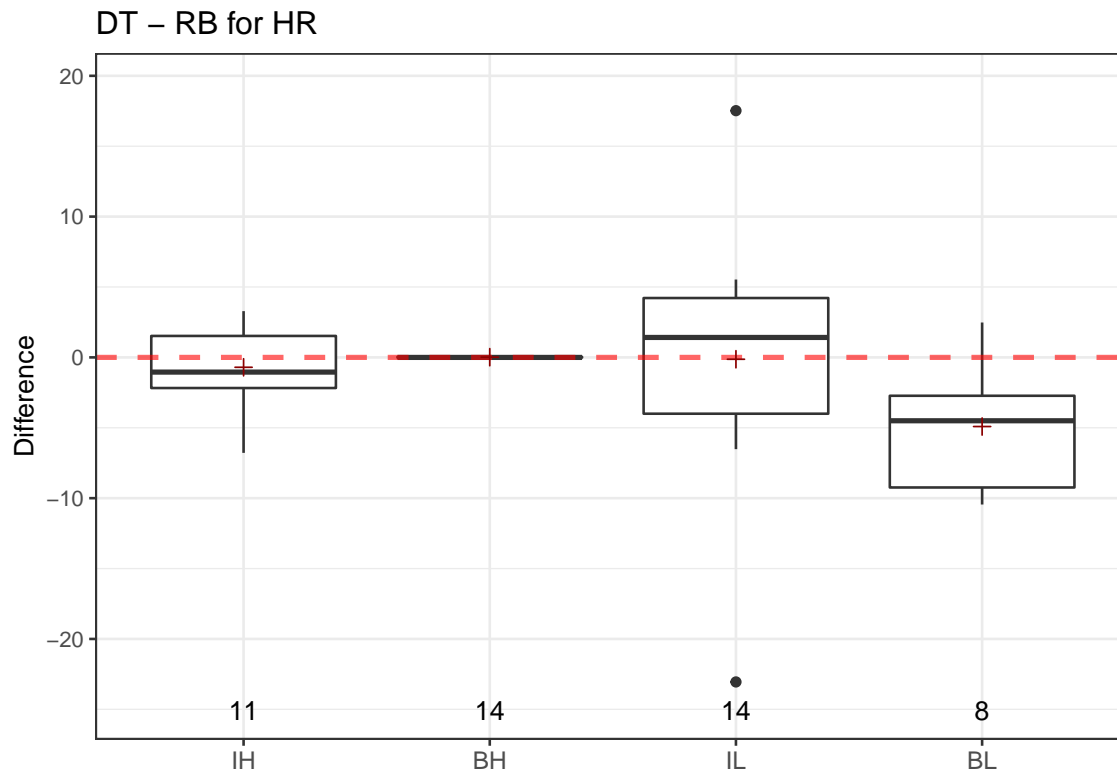


```
## Writing Baseline - Resting Baseline
## t-test p = 0.0916 > 0.05
##
## Stress Condition - Resting Baseline
## t-test p = 0.7428 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0548 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.0695 > 0.05
##
## Dual Task - Writing Baseline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

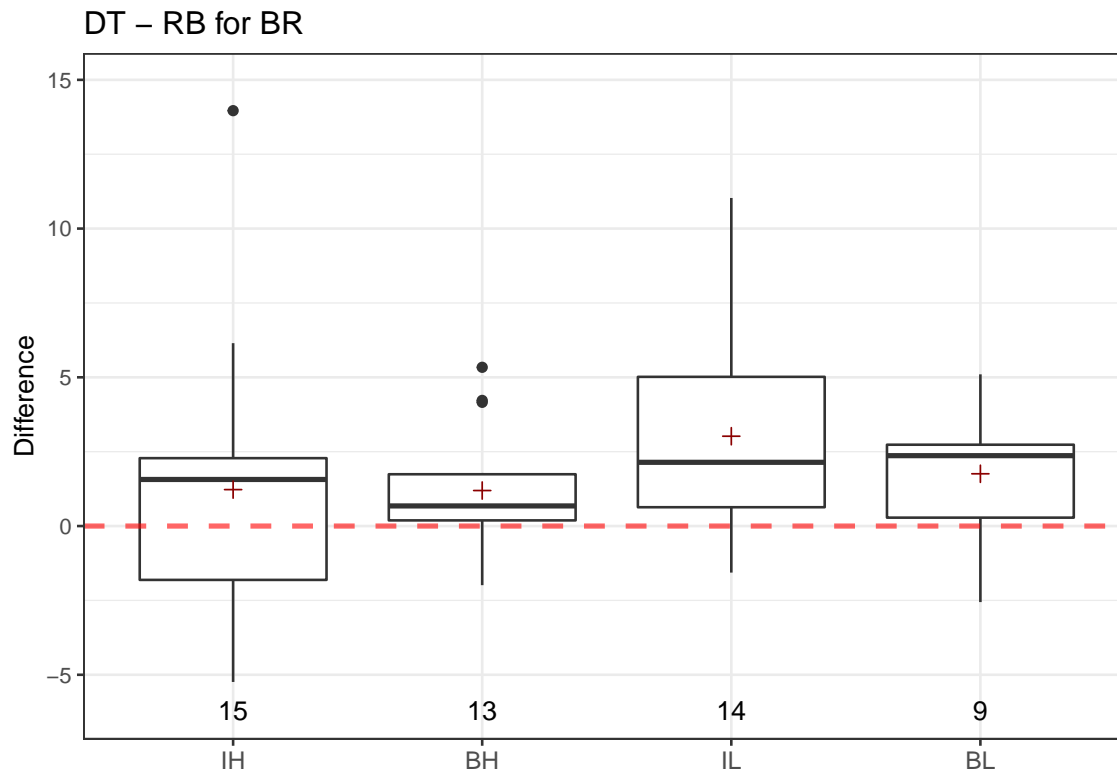

Across Sessions



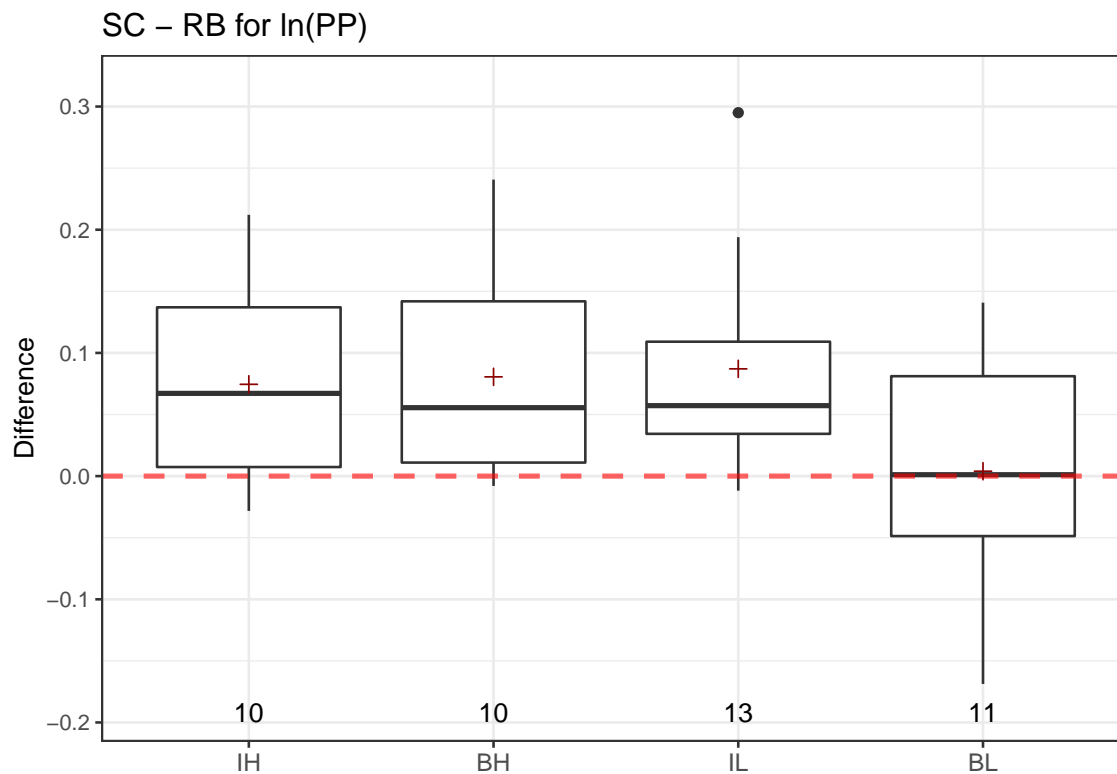
```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition    3  0.0434  0.01445    1.047   0.38
## Residuals   50  0.6903  0.01381
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##           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
```



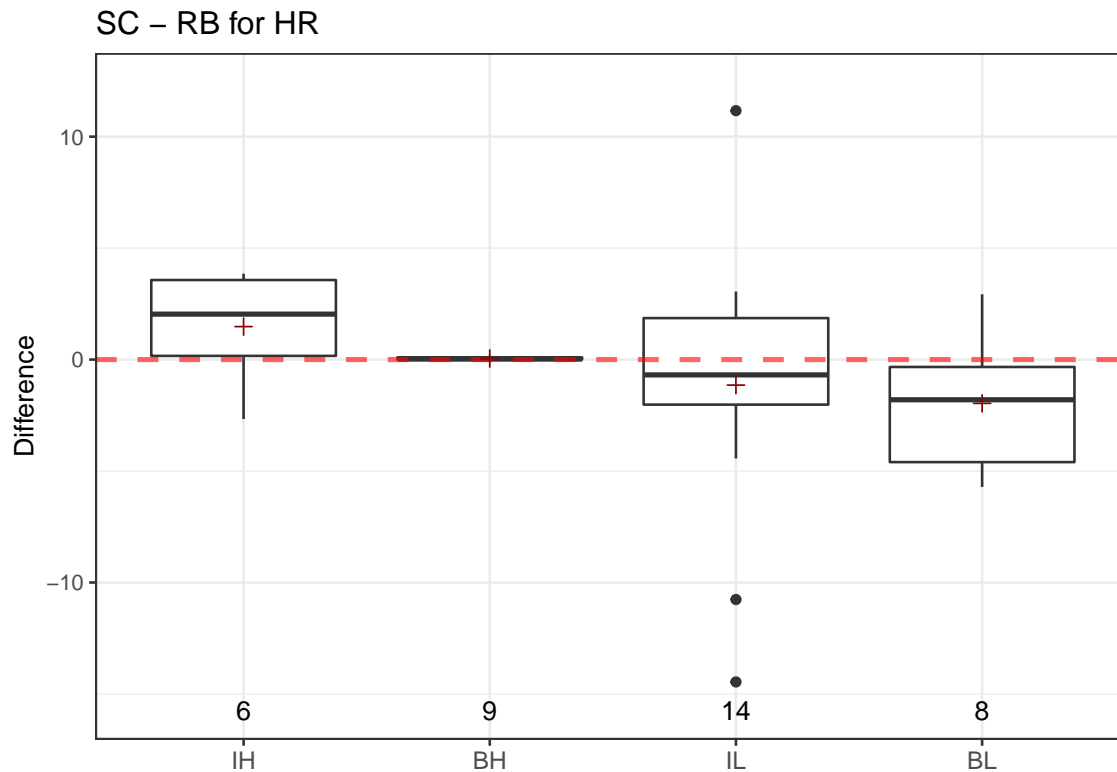
```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3  148.2    49.4    1.669  0.188
## Residuals  43 1272.7    29.6
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $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
```

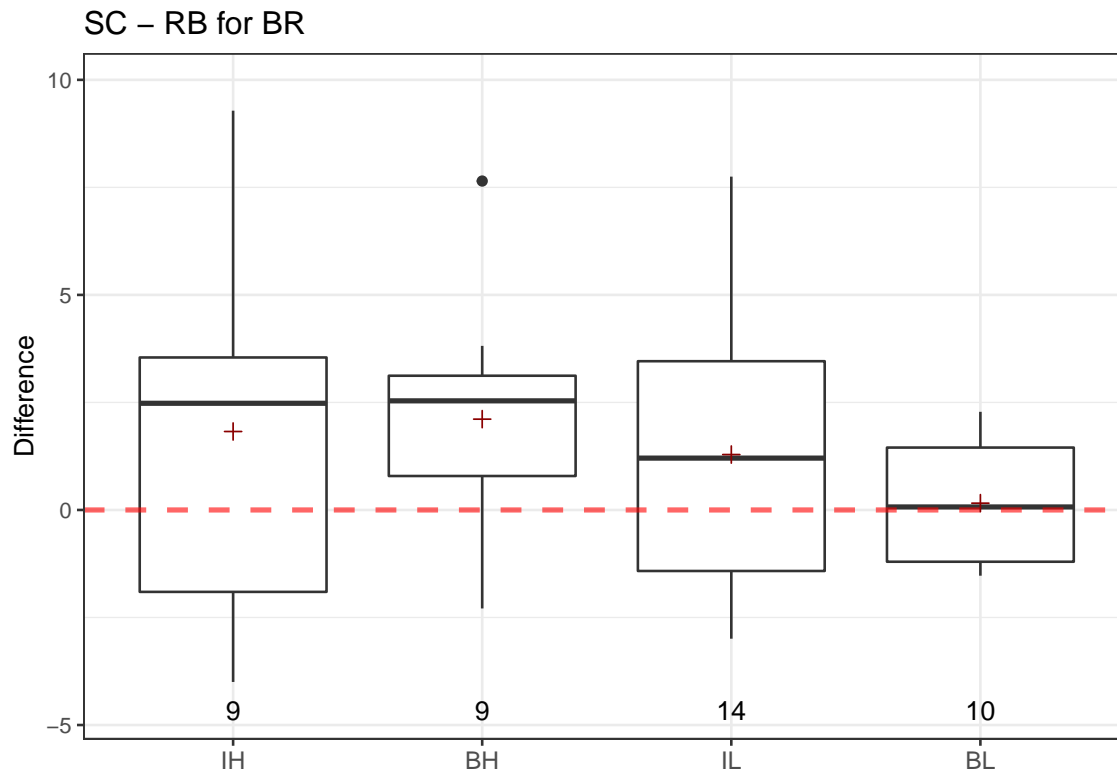
```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3   30.6   10.19   0.785  0.508
## Residuals  47  610.3   12.98
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $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
```



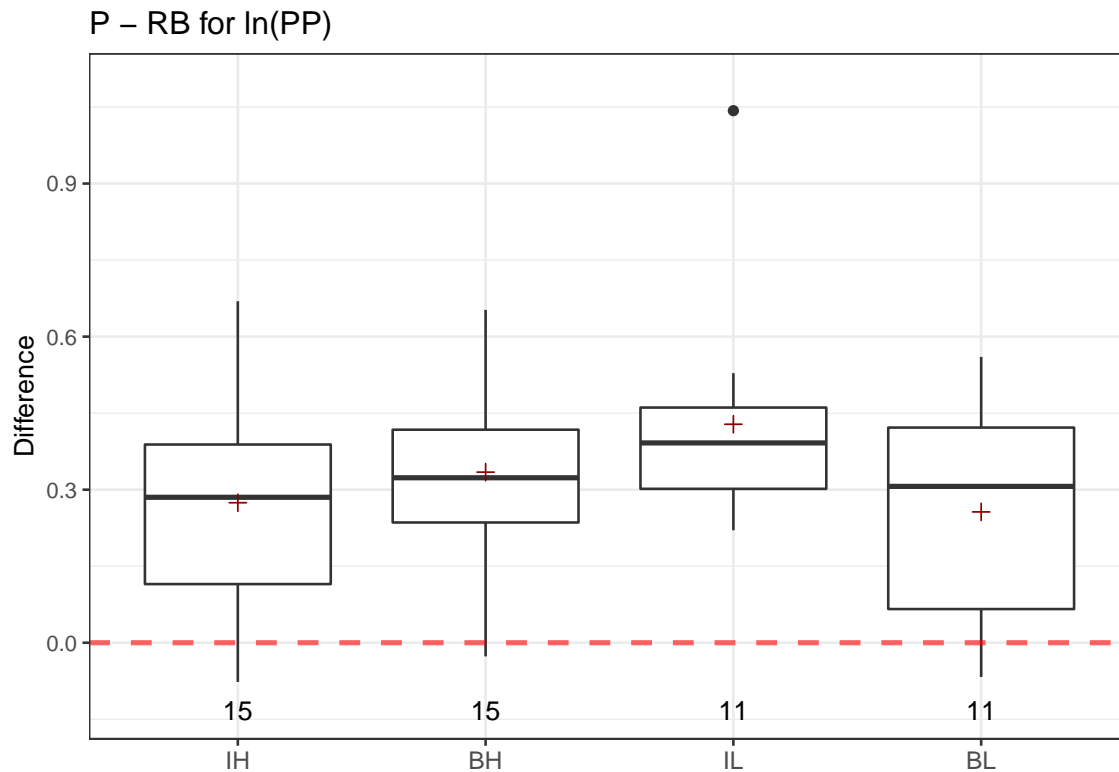
```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
## ---
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3  0.0502  0.016750    2.117  0.113
## Residuals  40  0.3165  0.007913
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence 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
```



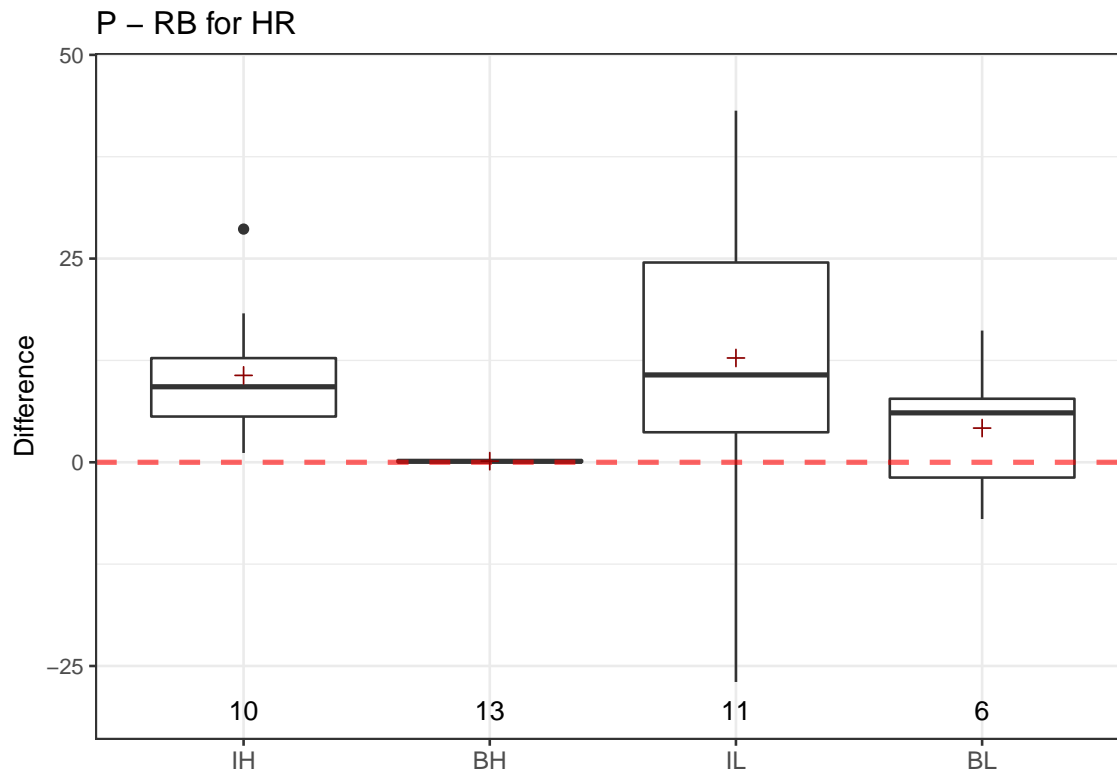
```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
## ---
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3   48.8   16.27    0.932  0.436
## Residuals  33  576.0   17.45
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## 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
```



```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
## ---
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3   21.4    7.149   0.704  0.555
## 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
```



```
##           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
```



```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3   1163   387.7    2.922 0.0471 *
## Residuals  36   4777   132.7
## ---
## 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  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
```

Summary

Condition	Difference	Measure	p	Test	n	Significance
BH	WB - RB	PP	0.0219462	t-test	15	*
BH	WB - RB	HR	0.0000130	Transformed t-test	14	***
BH	WB - RB	BR	0.0001138	t-test	14	***
BH	SC - RB	PP	0.1778303	t-test	14	
BH	SC - RB	HR	0.0327106	Transformed t-test	14	*
BH	SC - RB	BR	0.0167176	t-test	14	*
BH	SC - WB	PP	0.0973689	t-test	14	
BH	SC - WB	HR	0.3940901	Transformed t-test	14	
BH	SC - WB	BR	0.1543122	t-test	14	
BH	DT - RB	PP	0.0363198	t-test	15	*
BH	DT - RB	HR	0.2171923	Transformed t-test	14	
BH	DT - RB	BR	0.0744732	t-test	13	
BH	DT - WB	PP	0.5259981	t-test	15	
BH	DT - WB	HR	0.0024620	Transformed t-test	14	**
BH	DT - WB	BR	0.0000095	t-test	13	***
BH	DT - SC	PP	0.0629673	t-test	14	
BH	DT - SC	HR	0.0971471	Transformed t-test	14	
BH	DT - SC	BR	0.1008707	t-test	13	
BH	P - RB	PP	0.0000026	t-test	15	***
BH	P - RB	HR	0.0047967	Transformed t-test	13	**
BH	P - WB	PP	0.0000551	t-test	15	***
BH	P - WB	HR	0.0411070	Transformed t-test	13	*
BH	P - SC	PP	0.0000624	t-test	14	***
BH	P - SC	HR	0.0161774	Transformed t-test	13	*
BH	P - DT	PP	0.0000121	t-test	15	***
BH	P - DT	HR	0.0094598	Transformed t-test	13	**
BL	WB - RB	PP	0.3115380	t-test	11	
BL	WB - RB	HR	0.9869320	t-test	8	
BL	WB - RB	BR	0.0915679	t-test	10	
BL	SC - RB	PP	0.8923279	t-test	11	
BL	SC - RB	HR	0.1034335	t-test	8	
BL	SC - RB	BR	0.7428199	t-test	10	
BL	SC - WB	PP	0.5912498	t-test	11	
BL	SC - WB	HR	0.2170117	t-test	8	
BL	SC - WB	BR	0.0548135	t-test	10	
BL	DT - RB	PP	0.0525337	t-test	11	
BL	DT - RB	HR	0.0200050	t-test	8	*
BL	DT - RB	BR	0.0694710	t-test	9	
BL	DT - WB	PP	0.0679895	t-test	11	
BL	DT - WB	HR	0.0230059	t-test	8	*
BL	DT - WB	BR	0.1268540	t-test	9	
BL	DT - SC	PP	0.0607361	t-test	11	
BL	DT - SC	HR	0.0023709	t-test	8	**
BL	DT - SC	BR	0.0515357	t-test	9	
BL	P - RB	PP	0.0026388	t-test	11	**

(continued)

Condition	Difference	Measure	p	Test	n	Significance
BL	P - RB	HR	0.2800986	t-test	6	
BL	P - WB	PP	0.0030397	t-test	11	**
BL	P - WB	HR	0.2075354	t-test	6	
BL	P - SC	PP	0.0038631	t-test	11	**
BL	P - SC	HR	0.0855441	t-test	6	
BL	P - DT	PP	0.0575016	t-test	11	
BL	P - DT	HR	0.0152101	t-test	6	*
IH	WB - RB	PP	0.0004610	t-test	15	***
IH	WB - RB	HR	0.0188344	t-test	11	*
IH	WB - RB	BR	0.0074935	t-test	15	**
IH	SC - RB	PP	0.0122546	t-test	14	*
IH	SC - RB	HR	0.3552732	t-test	10	
IH	SC - RB	BR	0.1188954	t-test	15	
IH	SC - WB	PP	0.1694595	t-test	14	
IH	SC - WB	HR	0.0243429	t-test	10	*
IH	SC - WB	BR	0.0317792	t-test	15	*
IH	DT - RB	PP	0.0000487	t-test	15	***
IH	DT - RB	HR	0.4334571	t-test	11	
IH	DT - RB	BR	0.3322883	t-test	15	
IH	DT - WB	PP	0.1077157	t-test	15	
IH	DT - WB	HR	0.0035532	t-test	11	**
IH	DT - WB	BR	0.0022952	t-test	15	**
IH	DT - SC	PP	0.0437527	t-test	14	*
IH	DT - SC	HR	0.1613719	t-test	10	
IH	DT - SC	BR	0.5106319	t-test	15	
IH	P - RB	PP	0.0001504	t-test	15	***
IH	P - RB	HR	0.0023820	t-test	10	**
IH	P - WB	PP	0.0036183	t-test	15	**
IH	P - WB	HR	0.0288561	t-test	10	*
IH	P - SC	PP	0.0016492	t-test	14	**
IH	P - SC	HR	0.0063270	t-test	10	**
IH	P - DT	PP	0.0049110	t-test	15	**
IH	P - DT	HR	0.0014945	t-test	10	**
IL	WB - RB	PP	0.0001706	t-test	13	***
IL	WB - RB	HR	0.0318164	t-test	14	*
IL	WB - RB	BR	0.0029280	t-test	13	**
IL	SC - RB	PP	0.0047788	t-test	13	**
IL	SC - RB	HR	0.4931241	t-test	14	
IL	SC - RB	BR	0.1716031	t-test	14	
IL	SC - WB	PP	0.1501126	t-test	13	
IL	SC - WB	HR	0.0000160	t-test	14	***
IL	SC - WB	BR	0.0056543	t-test	13	**
IL	DT - RB	PP	0.0000074	t-test	13	***
IL	DT - RB	HR	0.9564261	t-test	14	
IL	DT - RB	BR	0.0109817	t-test	14	*
IL	DT - WB	PP	0.4897627	t-test	13	
IL	DT - WB	HR	0.0153782	t-test	14	*

(continued)

Condition	Difference	Measure	p	Test	n	Significance
IL	DT - WB	BR	0.0141019	t-test	13	*
IL	DT - SC	PP	0.0502407	t-test	13	
IL	DT - SC	HR	0.4432256	t-test	14	
IL	DT - SC	BR	0.0396767	t-test	14	*
IL	P - RB	PP	0.0000892	t-test	11	***
IL	P - RB	HR	0.0552440	t-test	11	
IL	P - WB	PP	0.0054046	t-test	11	**
IL	P - WB	HR	0.1202428	t-test	11	
IL	P - SC	PP	0.0011554	t-test	11	**
IL	P - SC	HR	0.0209275	t-test	11	*
IL	P - DT	PP	0.0015878	t-test	11	**
IL	P - DT	HR	0.0093801	t-test	11	**