

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:

* = $0.01 < p \leq 0.05$

** = $0.001 < p \leq 0.01$

*** = $p \leq 0.001$

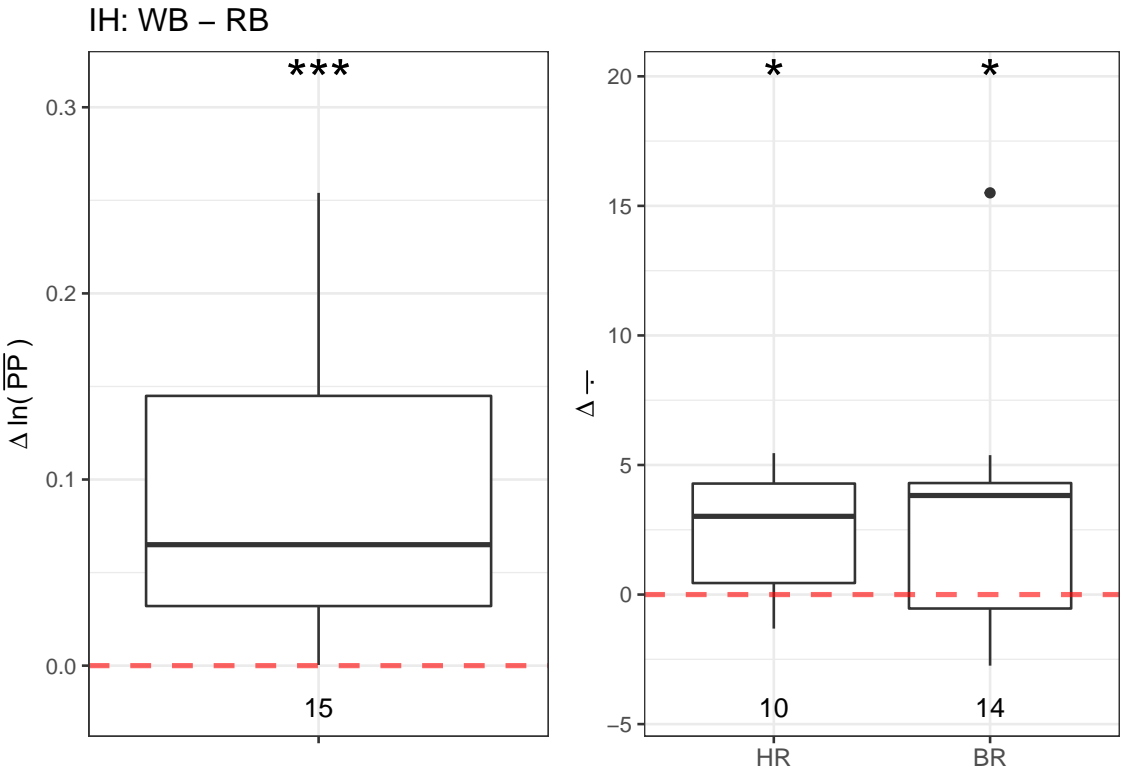
? = Did not run statistical test ($n < 7$)

Differences in **Reduced Sensor Set**:

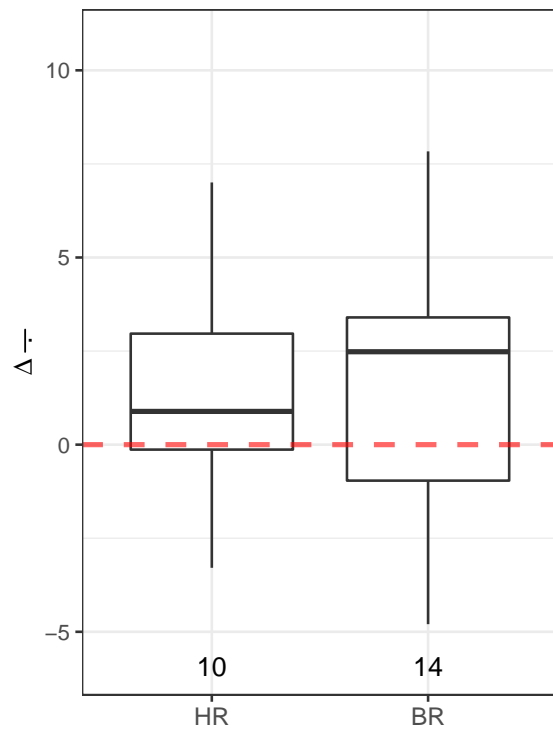
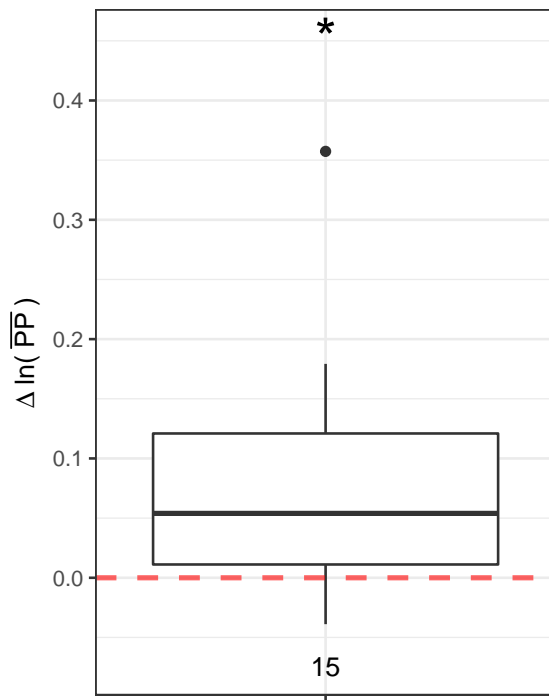
- Signals for D.EDA, N.EDA, D.HR, and N.HR and removed completely.
- **Breathing Rate** (BR) measurements for the **Presentation** session are removed completely.
- Easier on the eyes.

Intermittent-High (IH)

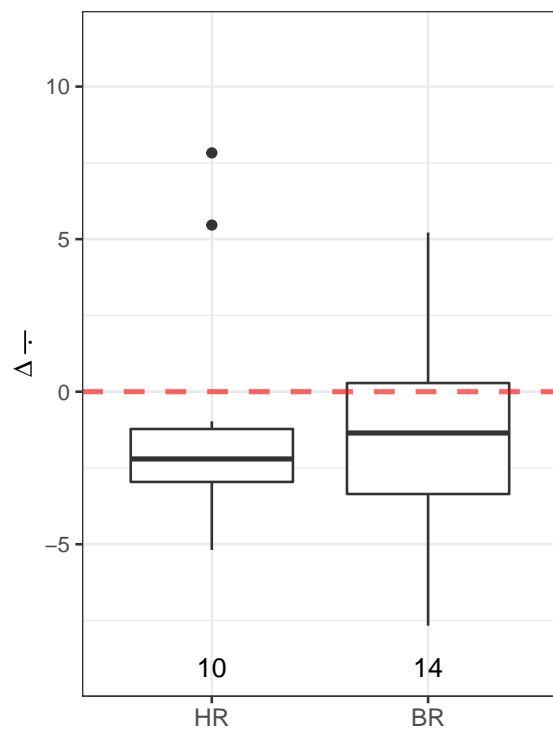
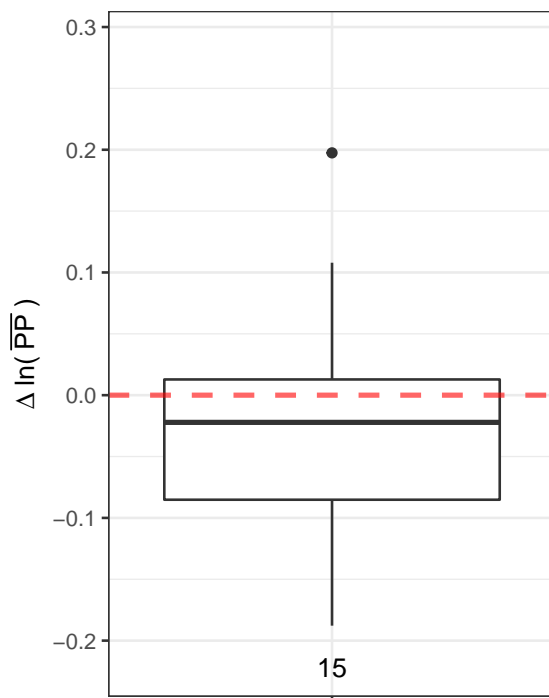
Sensor Channels per Session

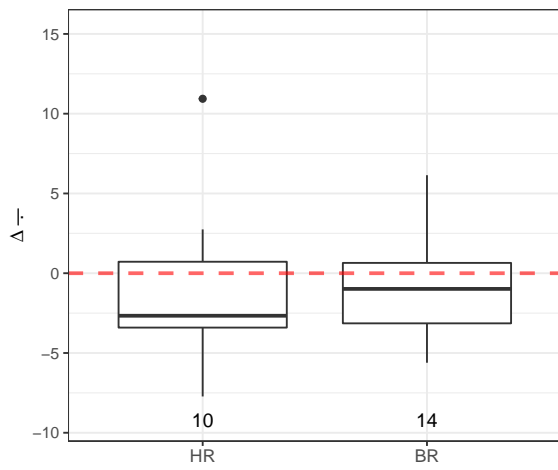
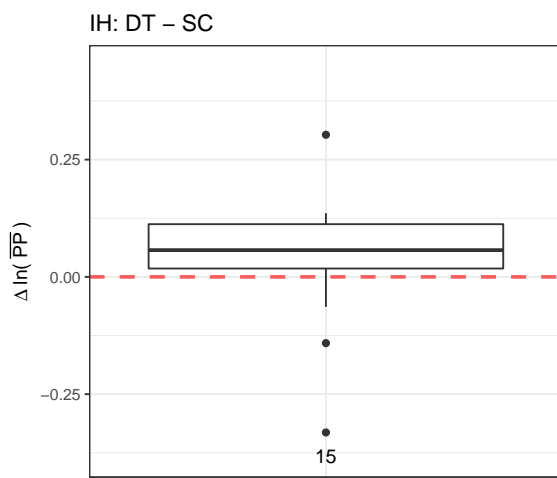
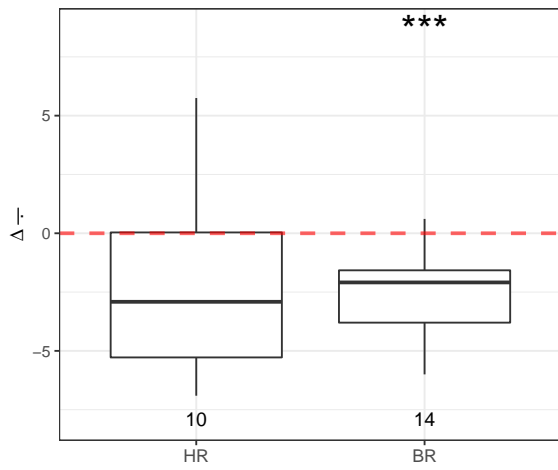
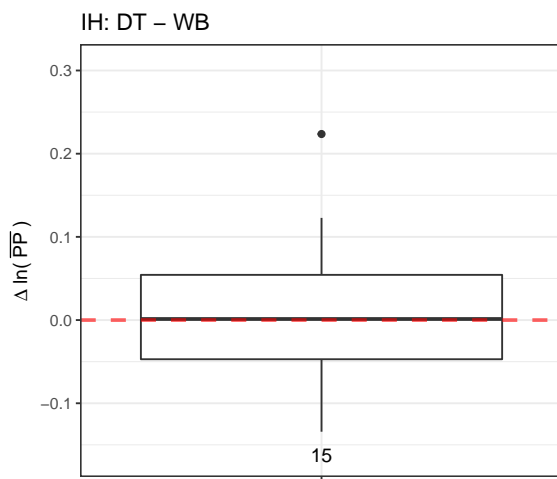
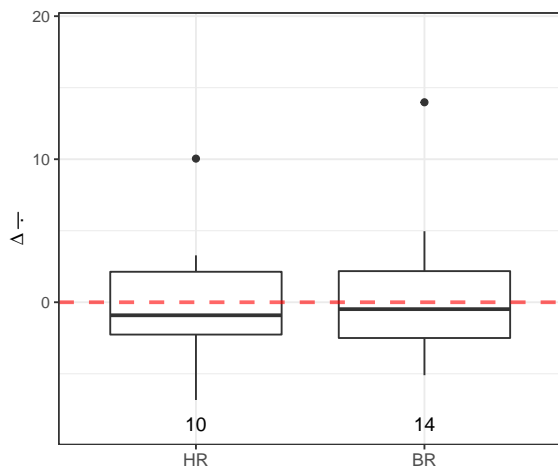
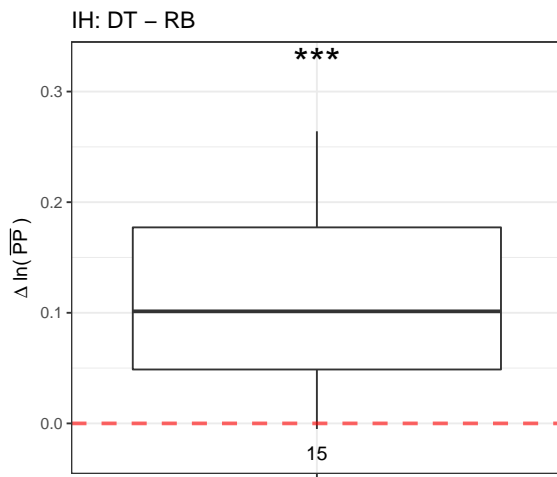


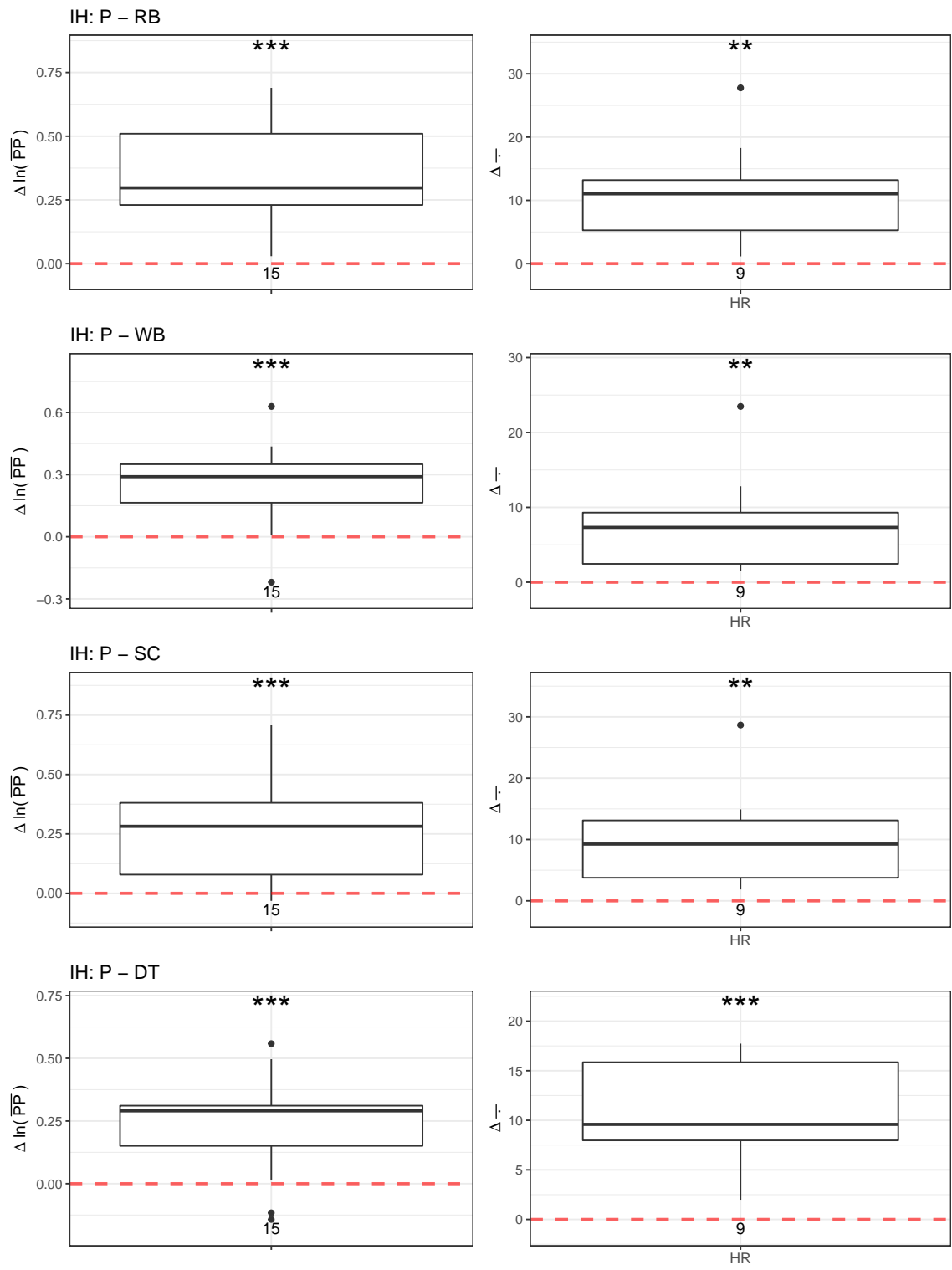
IH: SC – RB



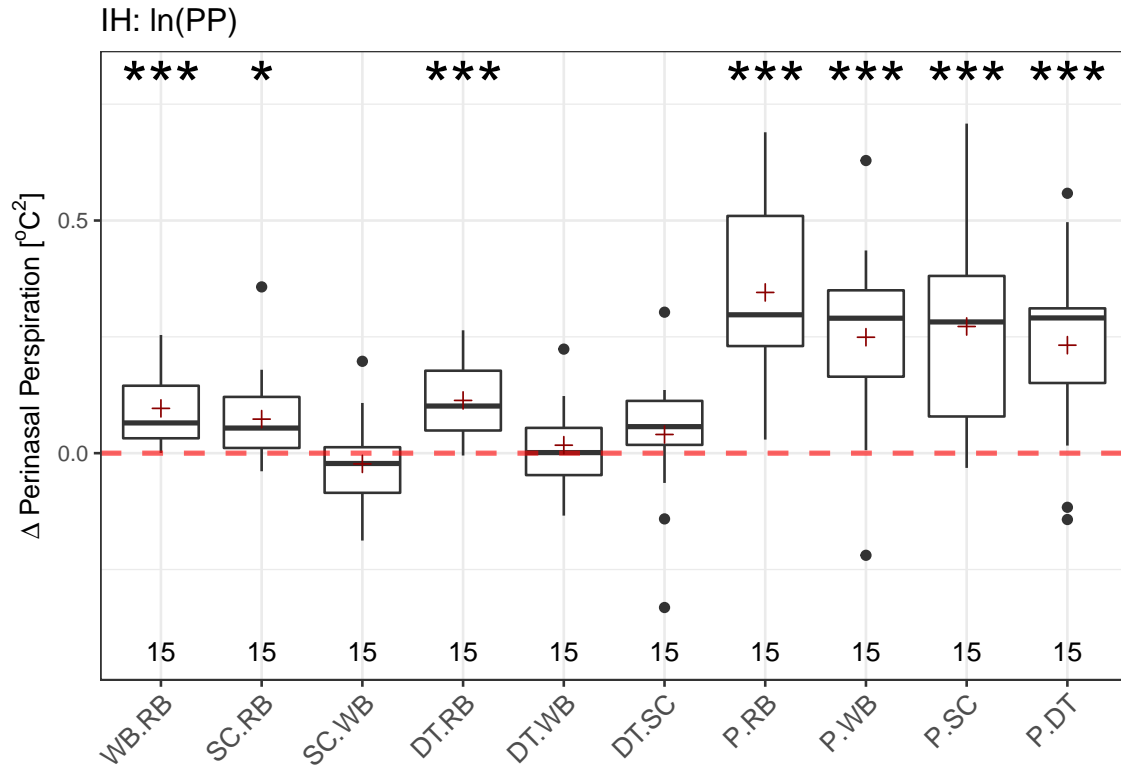
IH: SC – WB





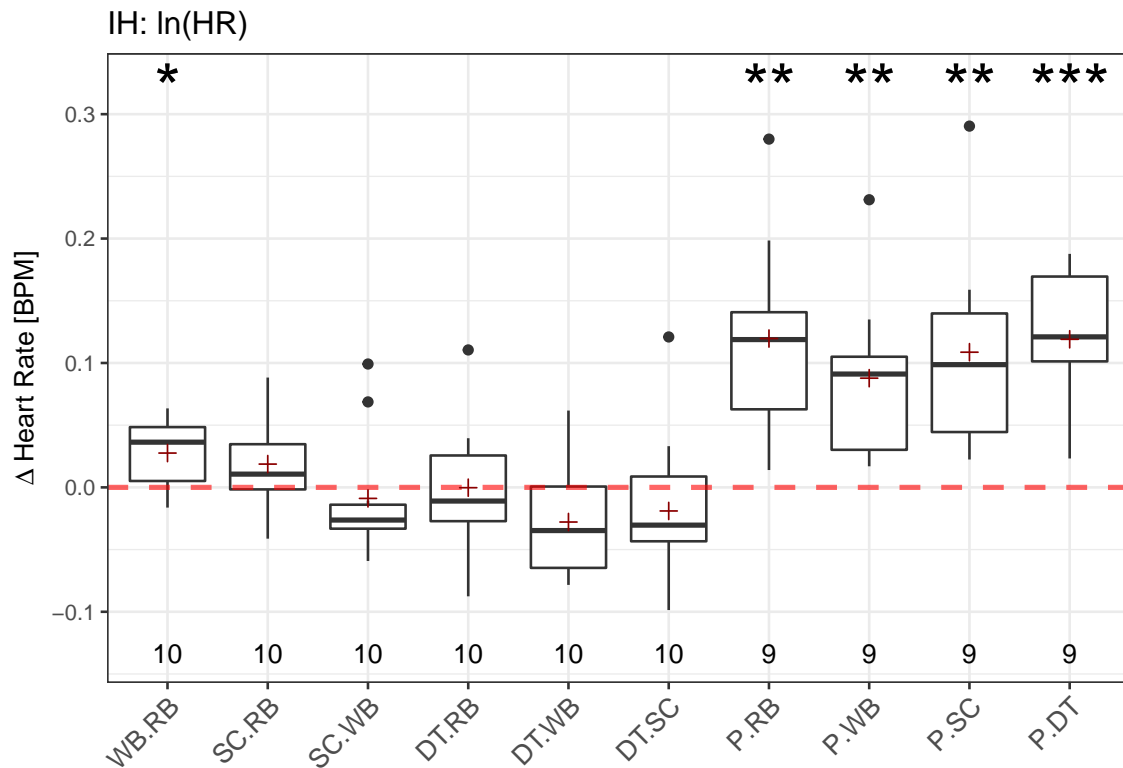


Sensor Channel across Session



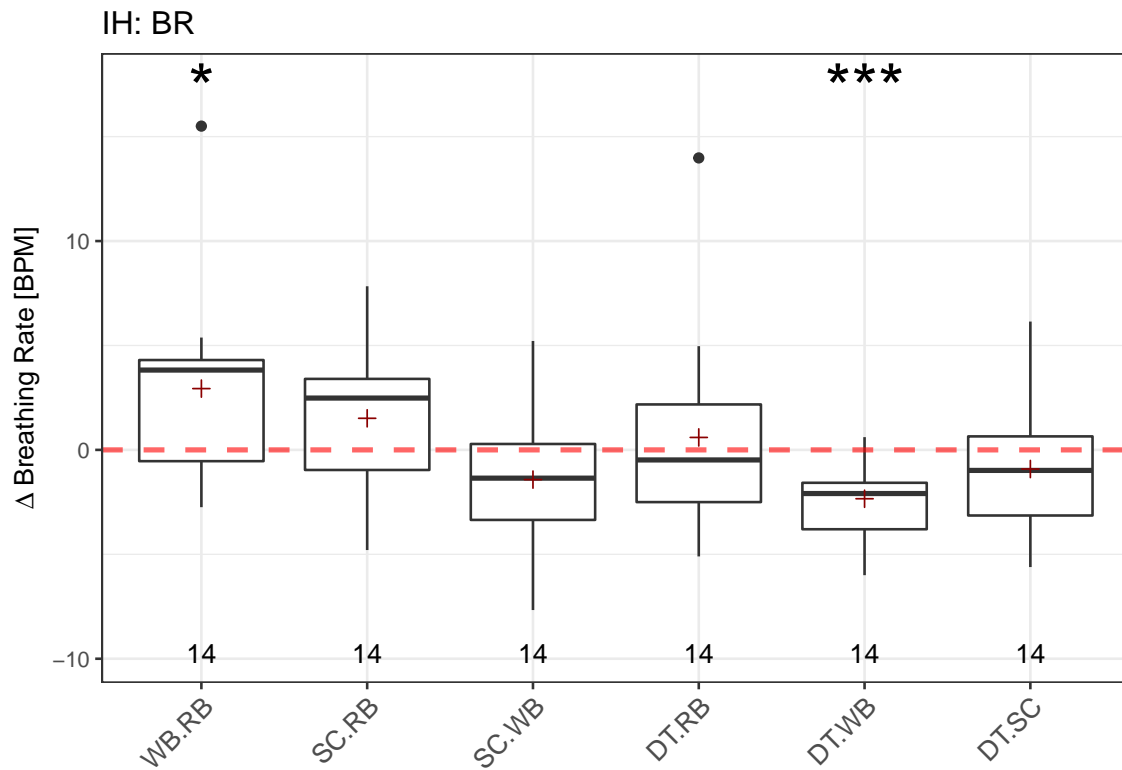
```
## In the following tests, we applied ln(PP).
##
## Writing Baseline - Resting Baseline
## t-test p = 6e-04 < 0.001 ***
##
## Stress Condition - Resting Baseline
## t-test p = 0.0151 < 0.05 *
##
## StressCondition - Writing Baseline
## t-test p = 0.3733 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 1e-04 < 0.001 ***
##
## Dual Task - Writing Baseline
## t-test p = 0.4778 > 0.05
##
## Dual Task - Stress Condition
## t-test p = 0.2937 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0 < 0.001 ***
##
```

```
## Presentation - Writing Baseline
## t-test p = 4e-04 < 0.001 ***
##
## Presentation - Stress Condition
## t-test p = 2e-04 < 0.001 ***
##
## Presentation - Dual Task
## t-test p = 5e-04 < 0.001 ***
```

```
## Writing Baseline - Resting Baseline
## Transformed t-test p = 0.0141 < 0.05  *
##
## Stress Condition - Resting Baseline
## Transformed t-test p = 0.1604 > 0.05
##
## StressCondition - Writing Baseline
## Transformed t-test p = 0.5965 > 0.05
##
## Dual Task - Resting Baseline
## Transformed t-test p = 0.9883 > 0.05
##
## Dual Task - Writing Baseline
## Transformed t-test p = 0.0757 > 0.05
##
## Dual Task - Stress Condition
## Transformed t-test p = 0.3774 > 0.05
##
## Presentation - Resting Baseline
## Transformed t-test p = 0.0024 < 0.01  **
##
## Presentation - Writing Baseline
## Transformed t-test p = 0.0045 < 0.01  **
##
## Presentation - Stress Condition
```

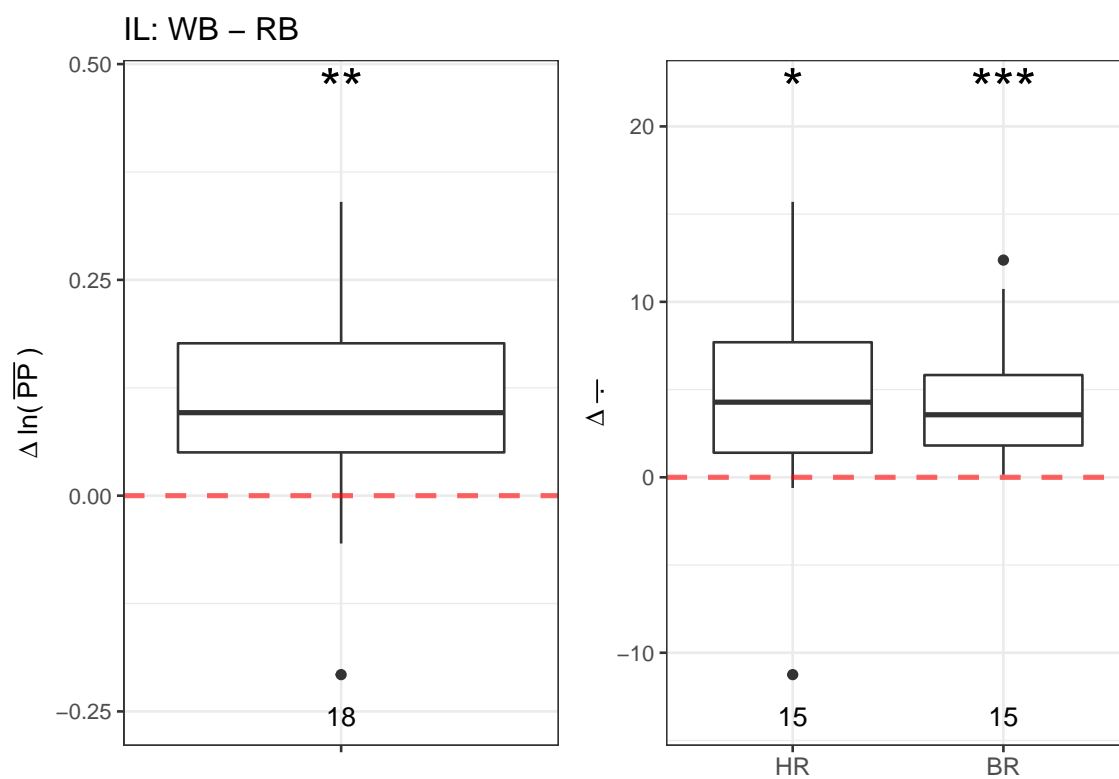
```
## Transformed t-test p = 0.0049 < 0.01  **  
##  
## Presentation - Dual Task  
## Transformed t-test p = 2e-04 < 0.001  ***
```

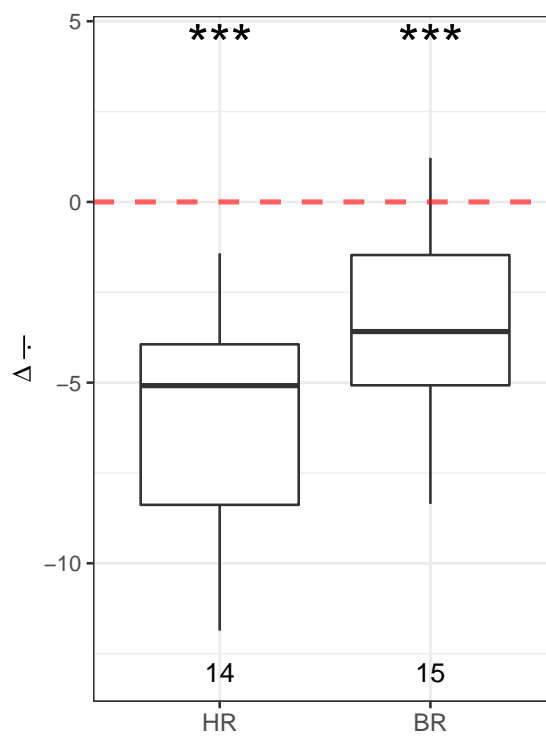
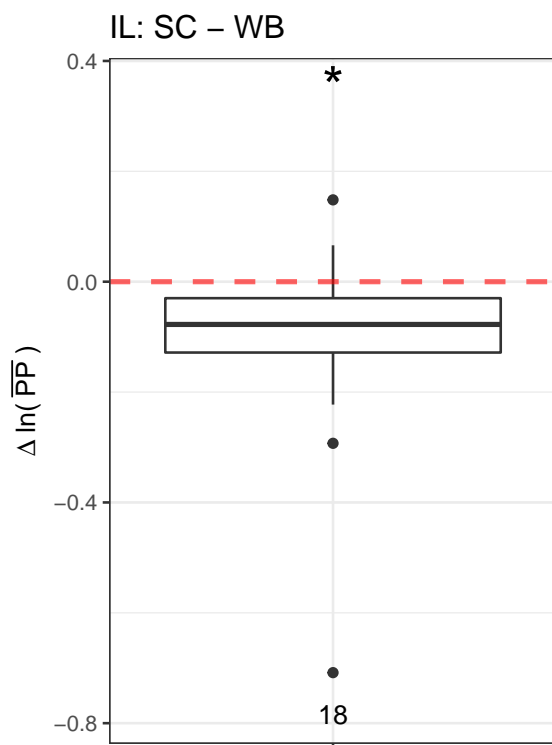
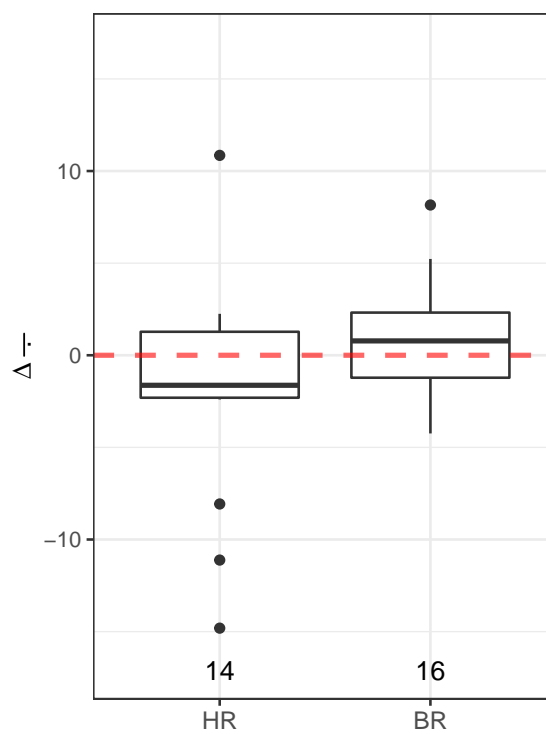
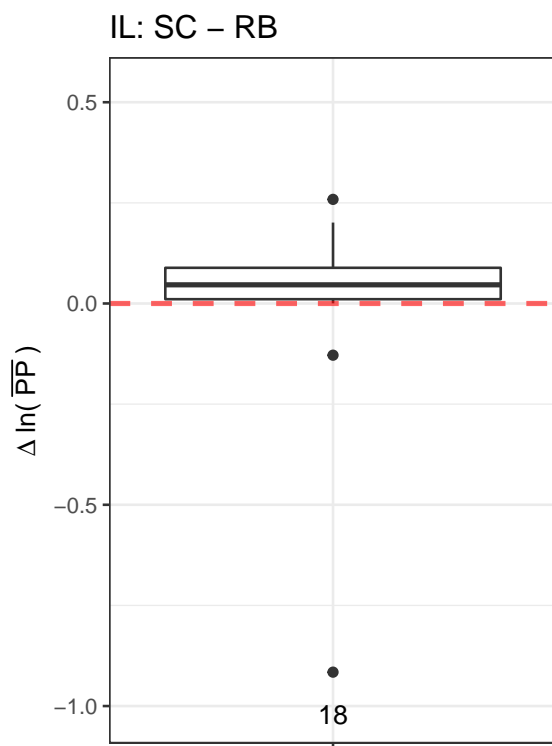


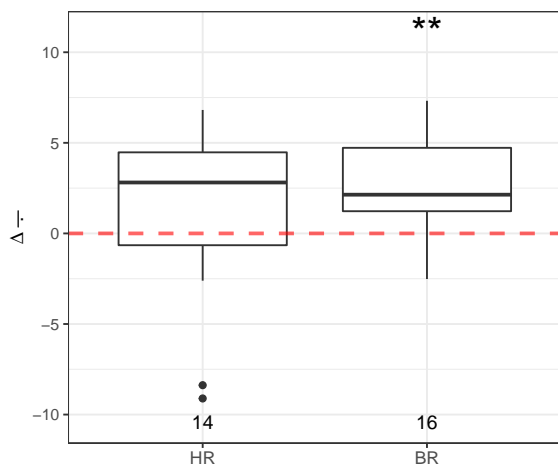
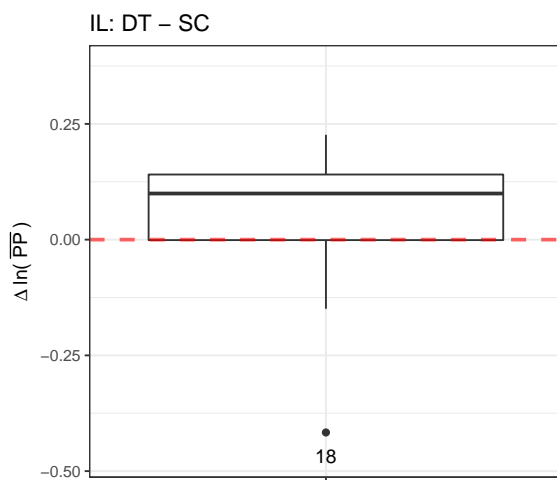
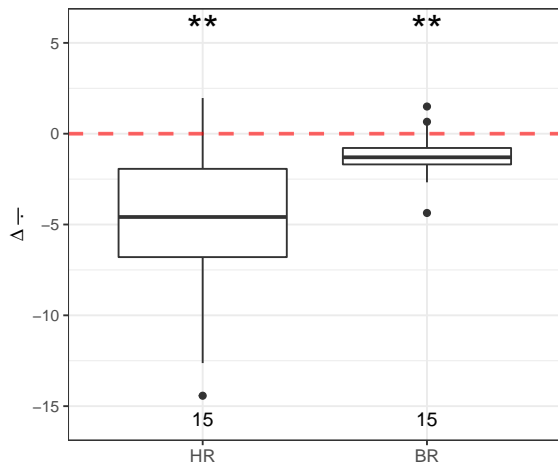
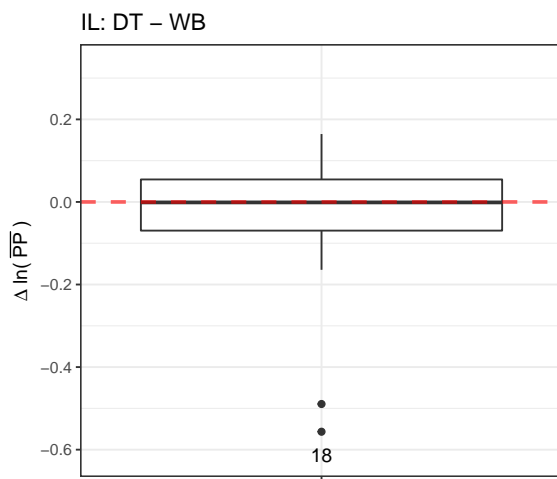
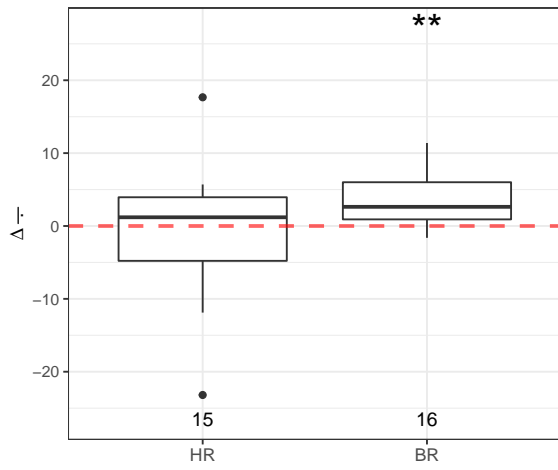
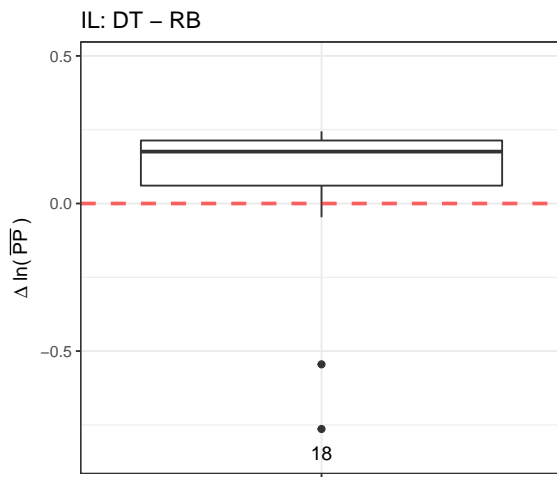
```
## Writing Baseline - Resting Baseline
## t-test p = 0.0327 < 0.05  *
##
## Stress Condition - Resting Baseline
## t-test p = 0.1441 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.1515 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.6464 > 0.05
##
## Dual Task - Writing Baseline
## t-test p = 4e-04 < 0.001  ***
##
## Dual Task - Stress Condition
## t-test p = 0.2686 > 0.05
```

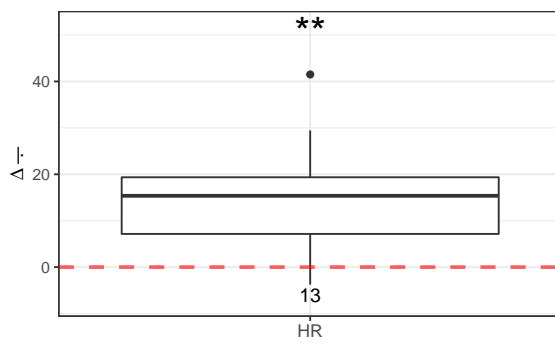
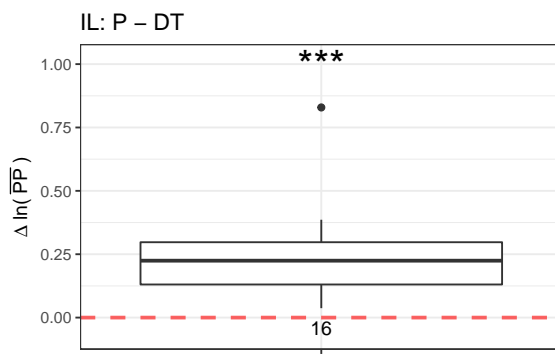
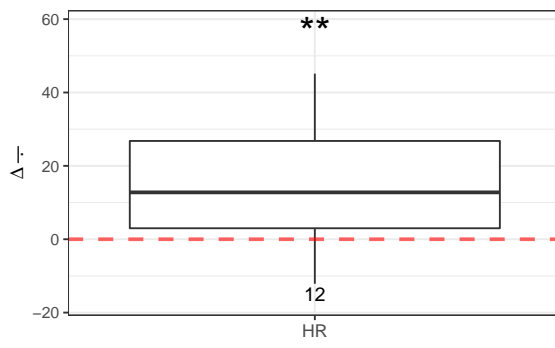
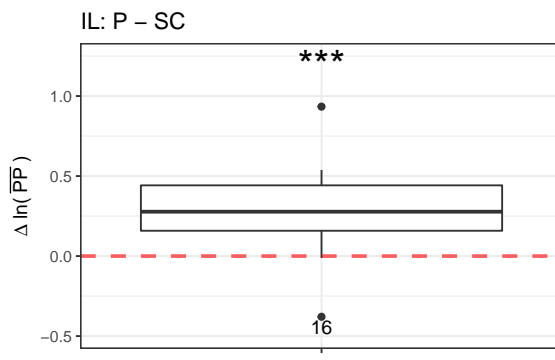
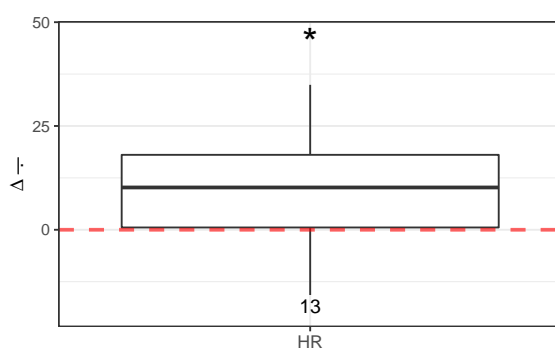
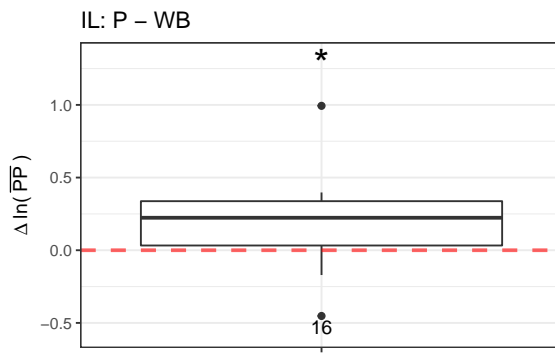
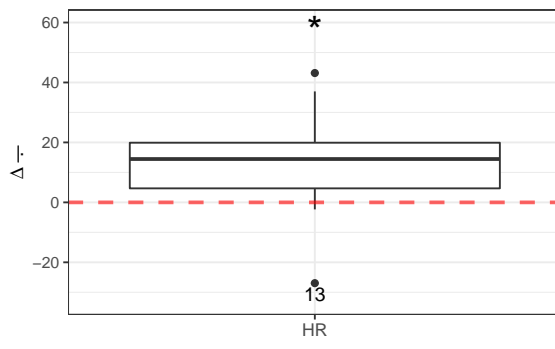
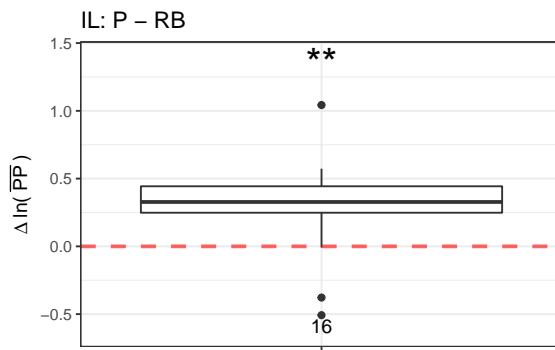

Intermittent-Low (IL)

Sensor Channels per Session

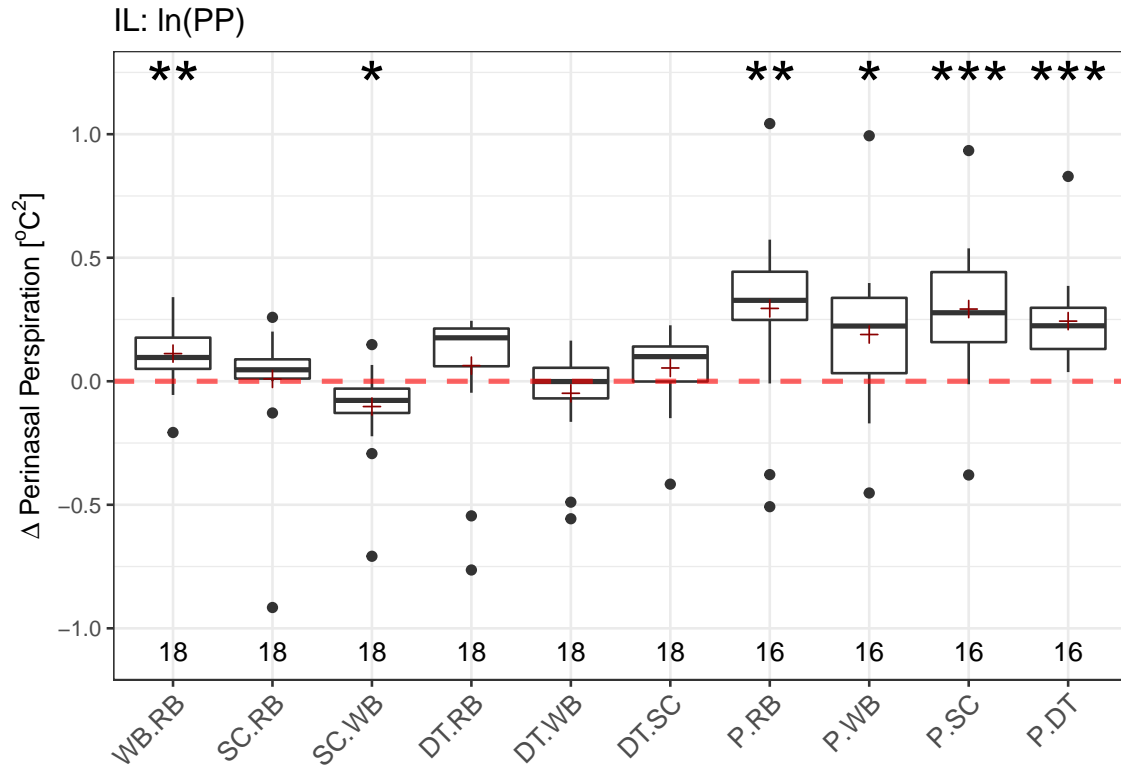






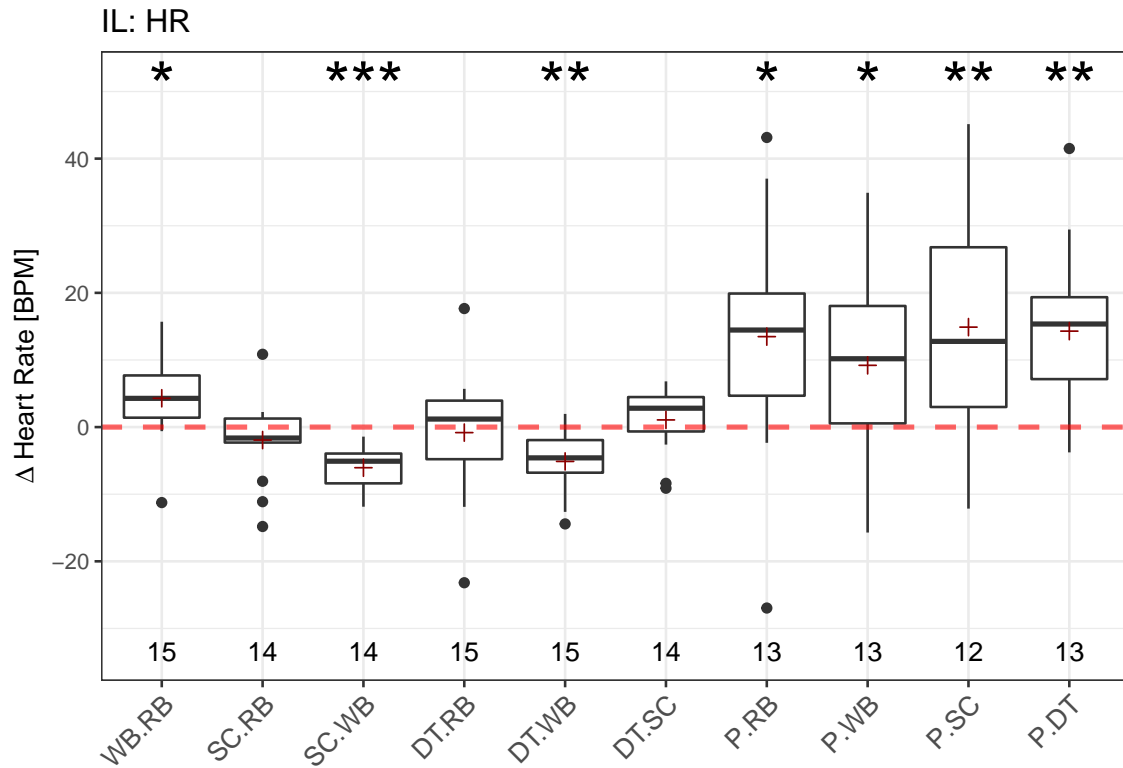


Sensor Channel across Session



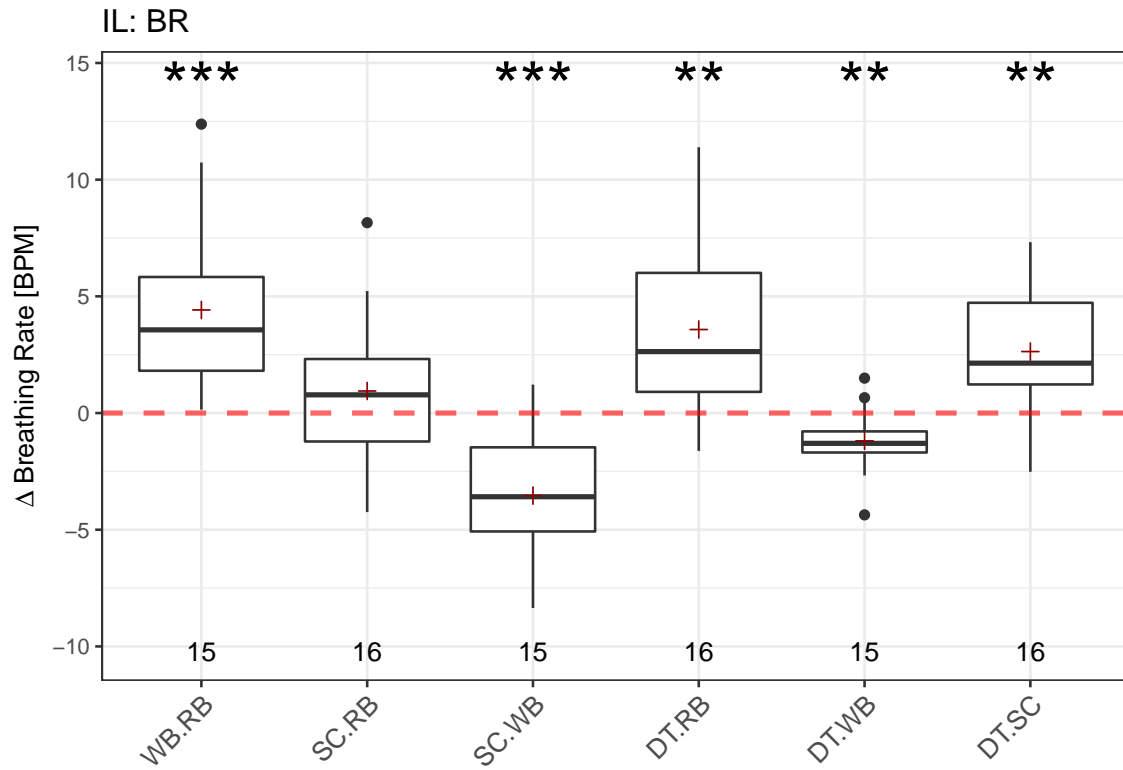
```
## Writing Baseline - Resting Baseline
## t-test p = 0.0019 < 0.01 **
##
## Stress Condition - Resting Baseline
## t-test p = 0.8713 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.0293 < 0.05 *
##
## Dual Task - Resting Baseline
## t-test p = 0.3458 > 0.05
##
## Dual Task - Writing Baseline
## t-test p = 0.3006 > 0.05
##
## Dual Task - Stress Condition
## t-test p = 0.1503 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0.0054 < 0.01 **
##
## Presentation - Writing Baseline
## t-test p = 0.0288 < 0.05 *
```

```
##  
## Presentation - Stress Condition  
## t-test p = 8e-04 < 0.001 ***  
##  
## Presentation - Dual Task  
## t-test p = 1e-04 < 0.001 ***
```



```
## Writing Baseline - Resting Baseline
## t-test p = 0.0167 < 0.05  *
##
## Stress Condition - Resting Baseline
## t-test p = 0.2669 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0 < 0.001  ***
##
## Dual Task - Resting Baseline
## t-test p = 0.7345 > 0.05
##
## Dual Task - Writing Baseline
## t-test p = 0.0017 < 0.01  **
##
## Dual Task - Stress Condition
## t-test p = 0.4266 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0.019 < 0.05  *
##
## Presentation - Writing Baseline
## t-test p = 0.035 < 0.05  *
##
## Presentation - Stress Condition
```

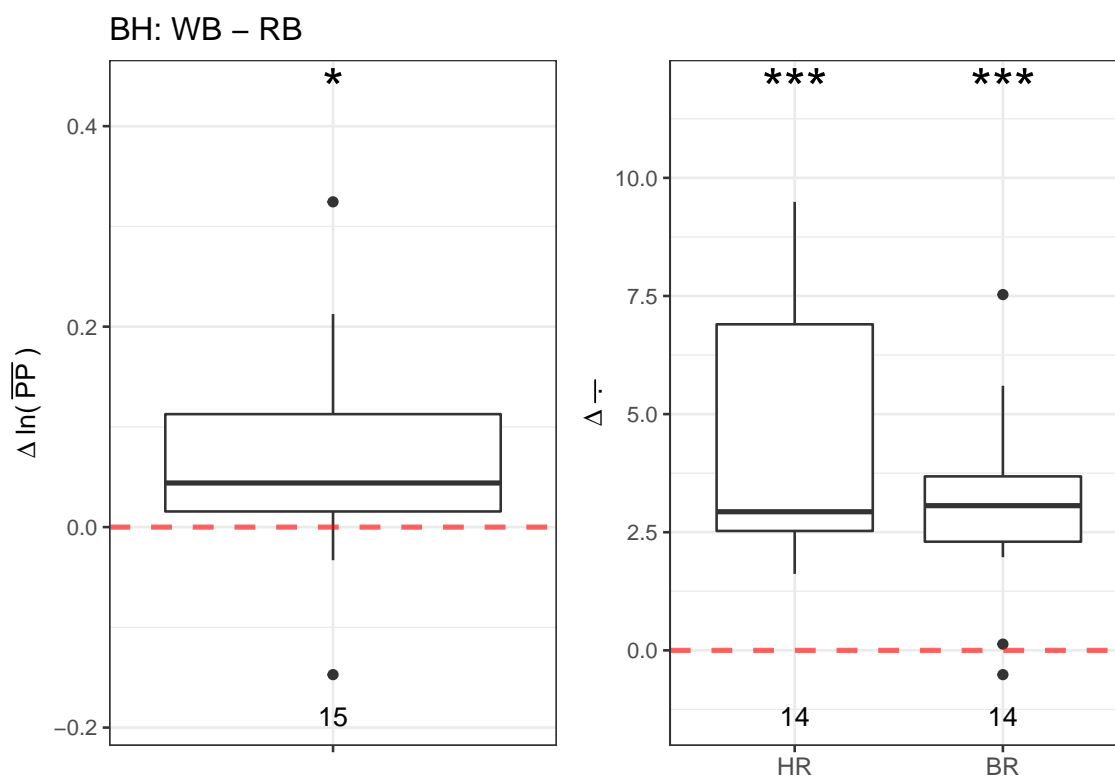
```
## t-test p = 0.0081 < 0.01 **  
##  
## Presentation - Dual Task  
## t-test p = 0.0017 < 0.01 **
```

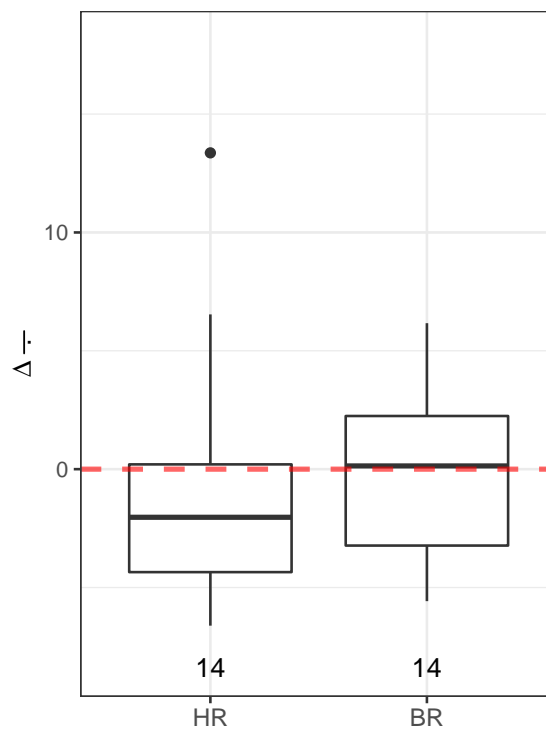
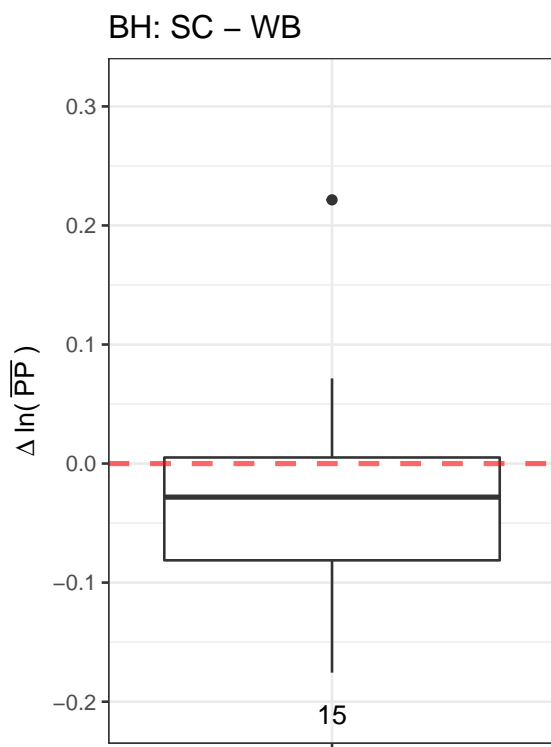
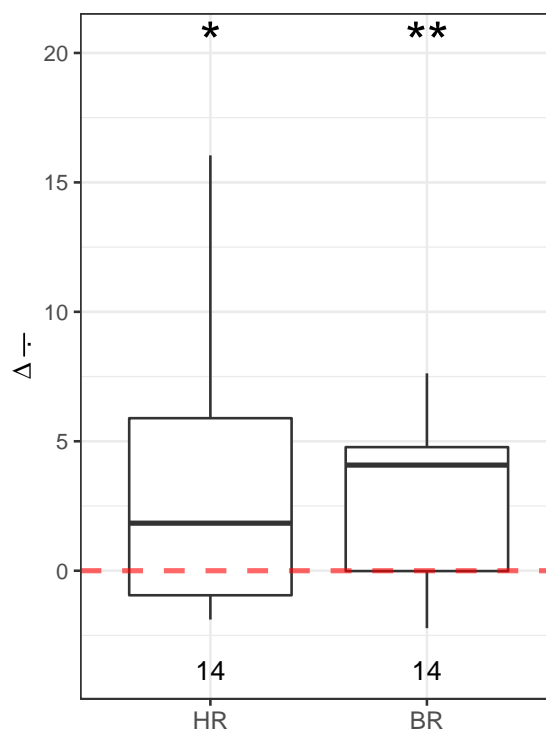
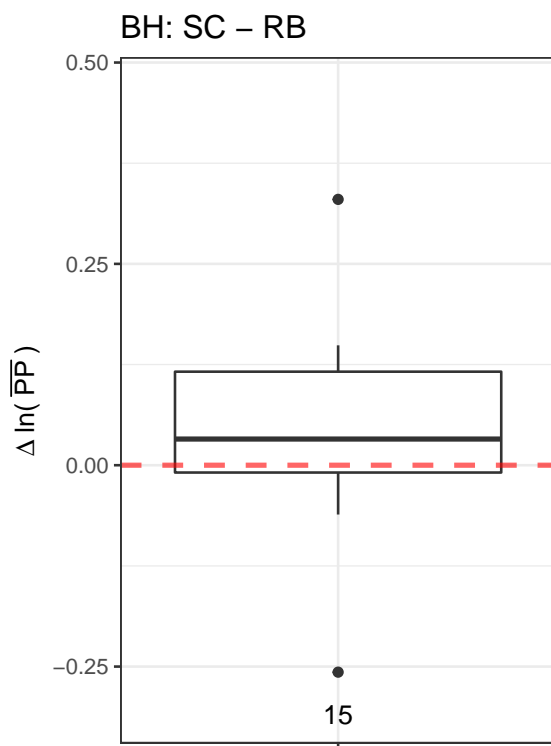


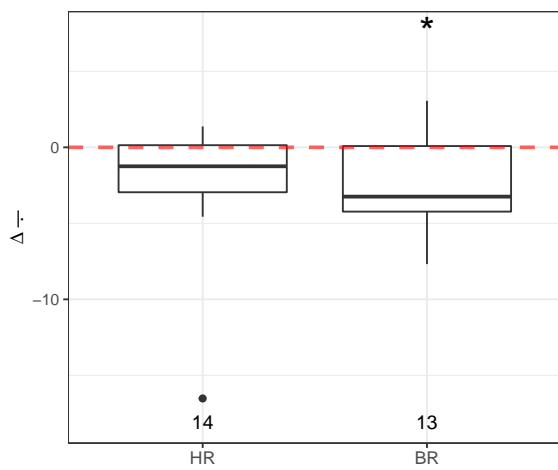
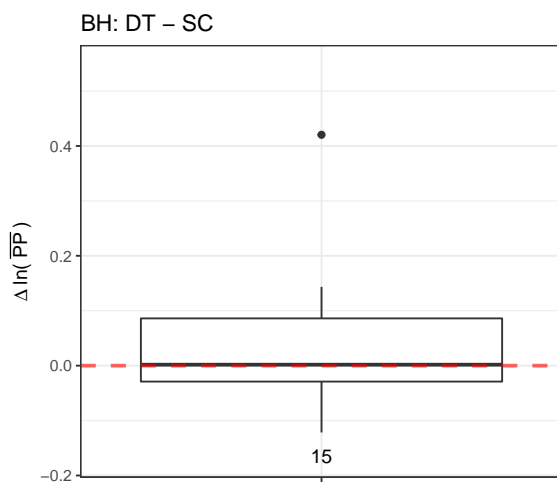
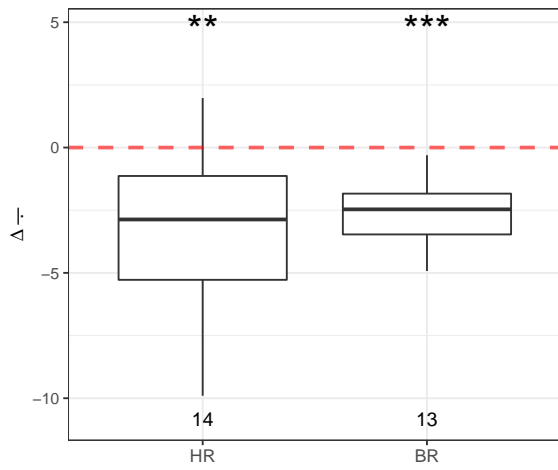
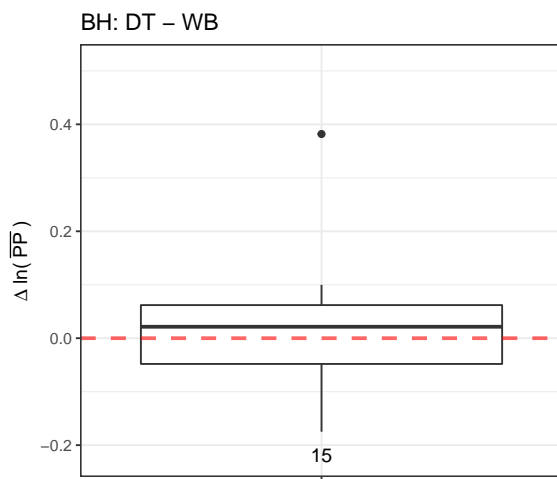
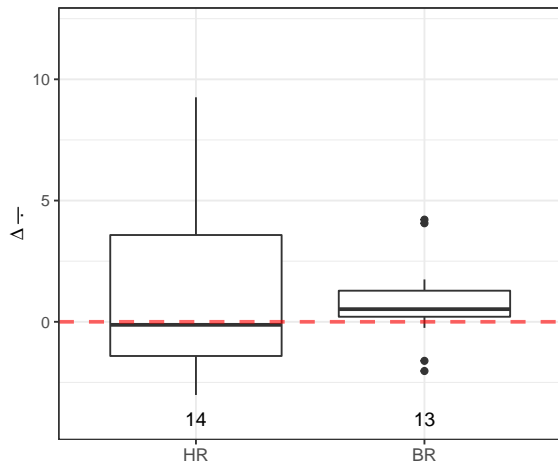
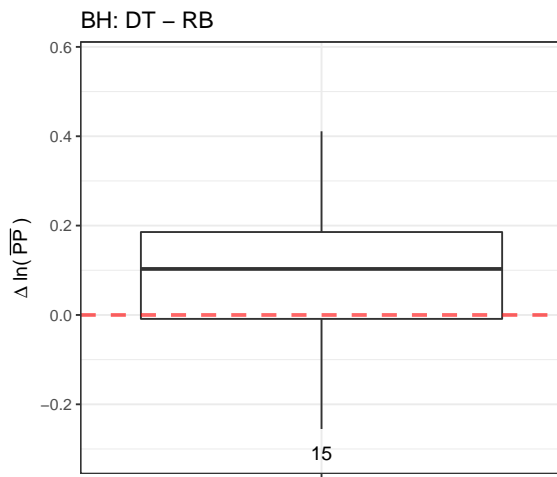
```
## Writing Baseline - Resting Baseline
## t-test p = 3e-04 < 0.001 ***
##
## Stress Condition - Resting Baseline
## t-test p = 0.27 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 2e-04 < 0.001 ***
##
## Dual Task - Resting Baseline
## t-test p = 0.0035 < 0.01 **
##
## Dual Task - Writing Baseline
## t-test p = 0.0053 < 0.01 **
##
## Dual Task - Stress Condition
## t-test p = 0.0029 < 0.01 **
```

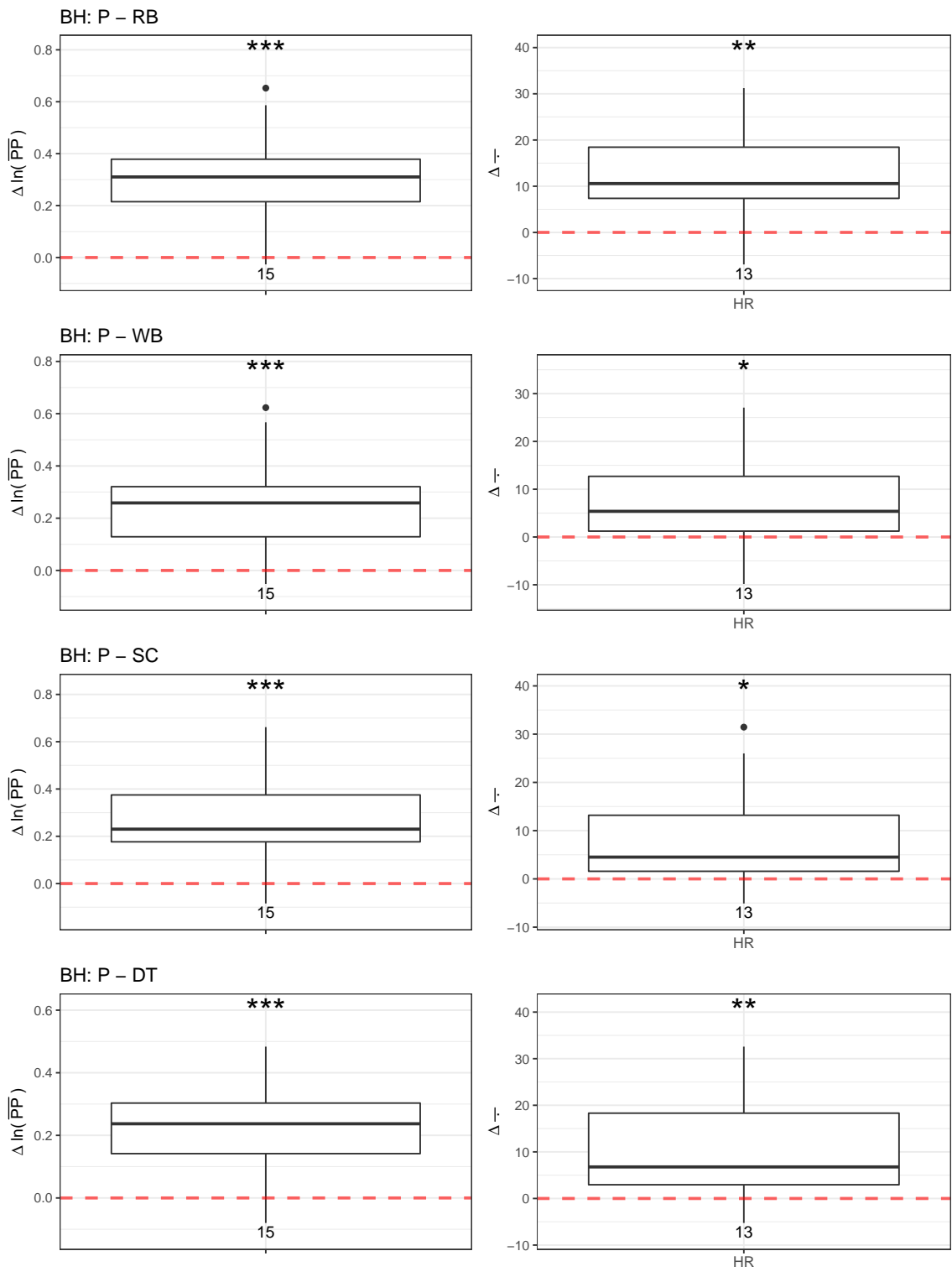

Batch-High (BH)

Sensor Channels per Session

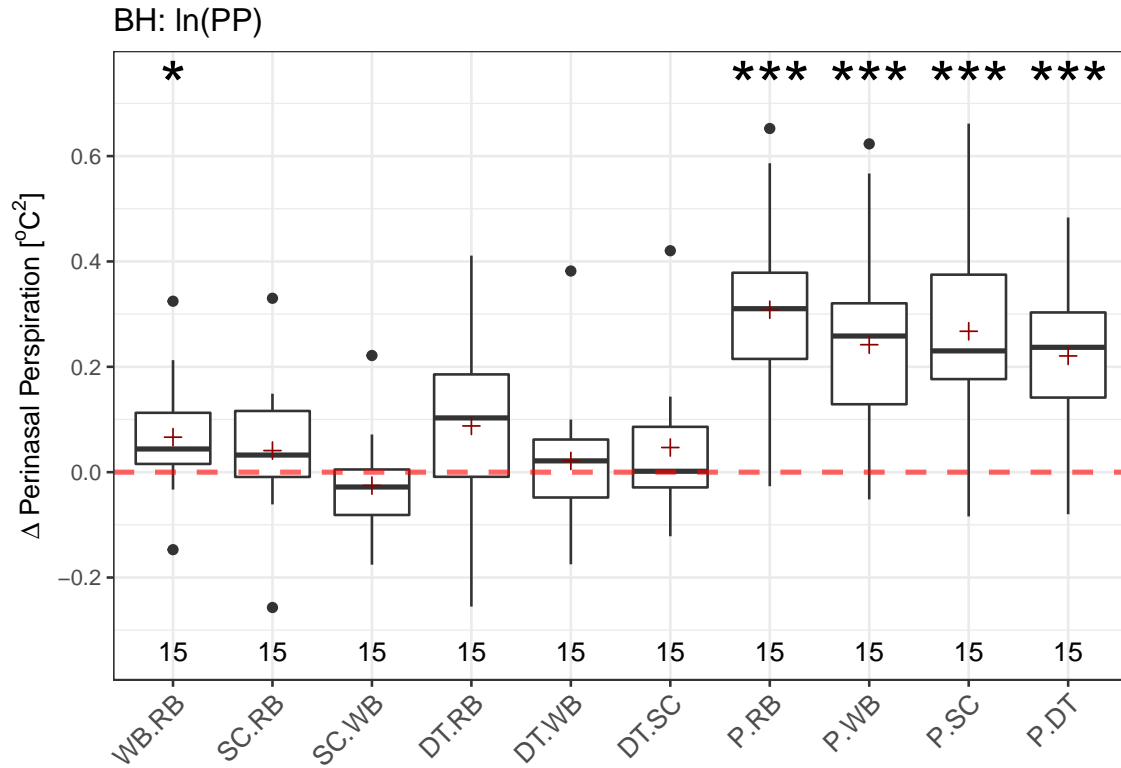






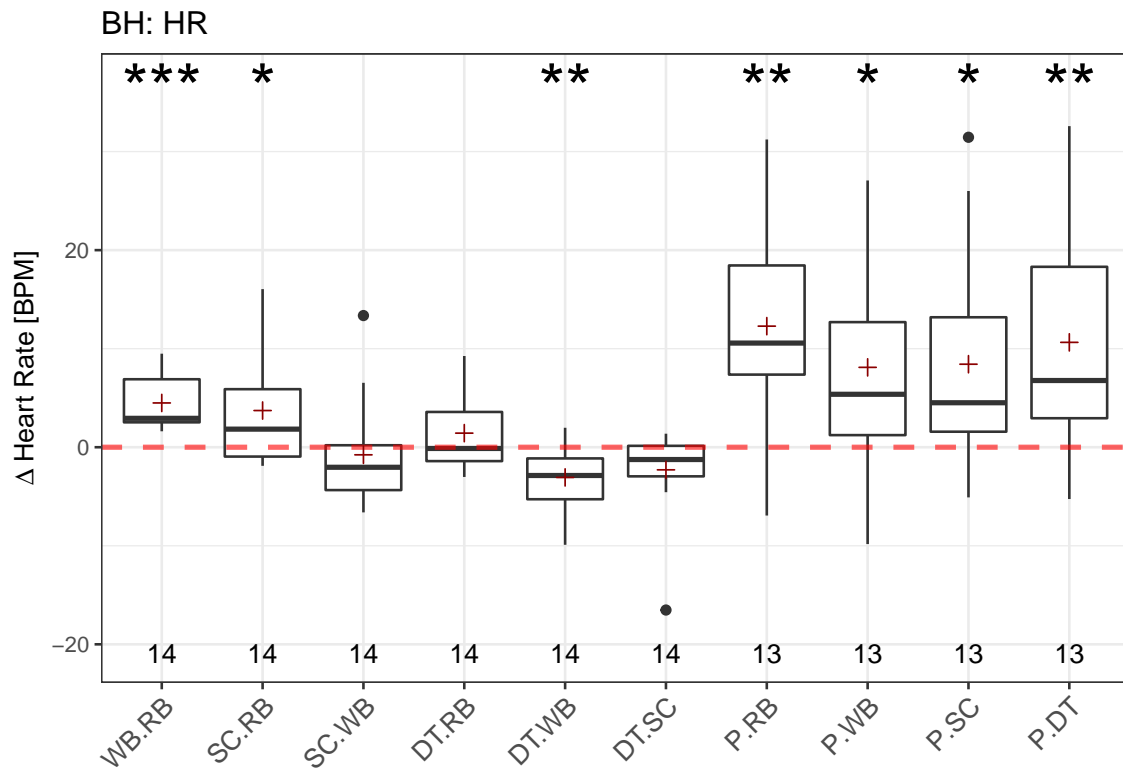


Sensor Channel across Session



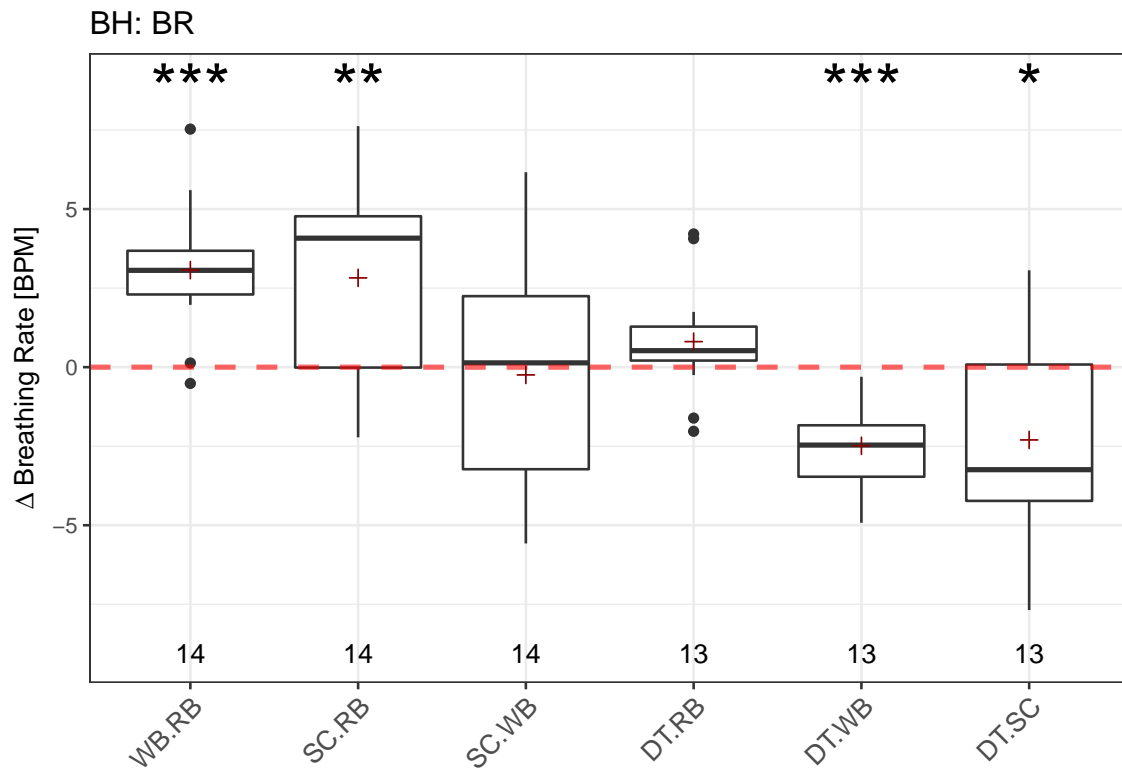
```
## Writing Baseline - Resting Baseline
## t-test p = 0.0352 < 0.05  *
##
## Stress Condition - Resting Baseline
## t-test p = 0.2413 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.304 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.0505 > 0.05
##
## Dual Task - Writing Baseline
## t-test p = 0.5187 > 0.05
##
## Dual Task - Stress Condition
## t-test p = 0.1744 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0 < 0.001  ***
##
## Presentation - Writing Baseline
## t-test p = 2e-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
## t-test p = 0 < 0.001 ***
##
## Stress Condition - Resting Baseline
## t-test p = 0.0312 < 0.05 *
##
## StressCondition - Writing Baseline
## t-test p = 0.606 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.1825 > 0.05
##
## Dual Task - Writing Baseline
## t-test p = 0.0031 < 0.01 **
##
## Dual Task - Stress Condition
## t-test p = 0.0763 > 0.05
##
## Presentation - Resting Baseline
## t-test p = 0.003 < 0.01 **
##
## Presentation - Writing Baseline
## t-test p = 0.025 < 0.05 *
##
## Presentation - Stress Condition
```

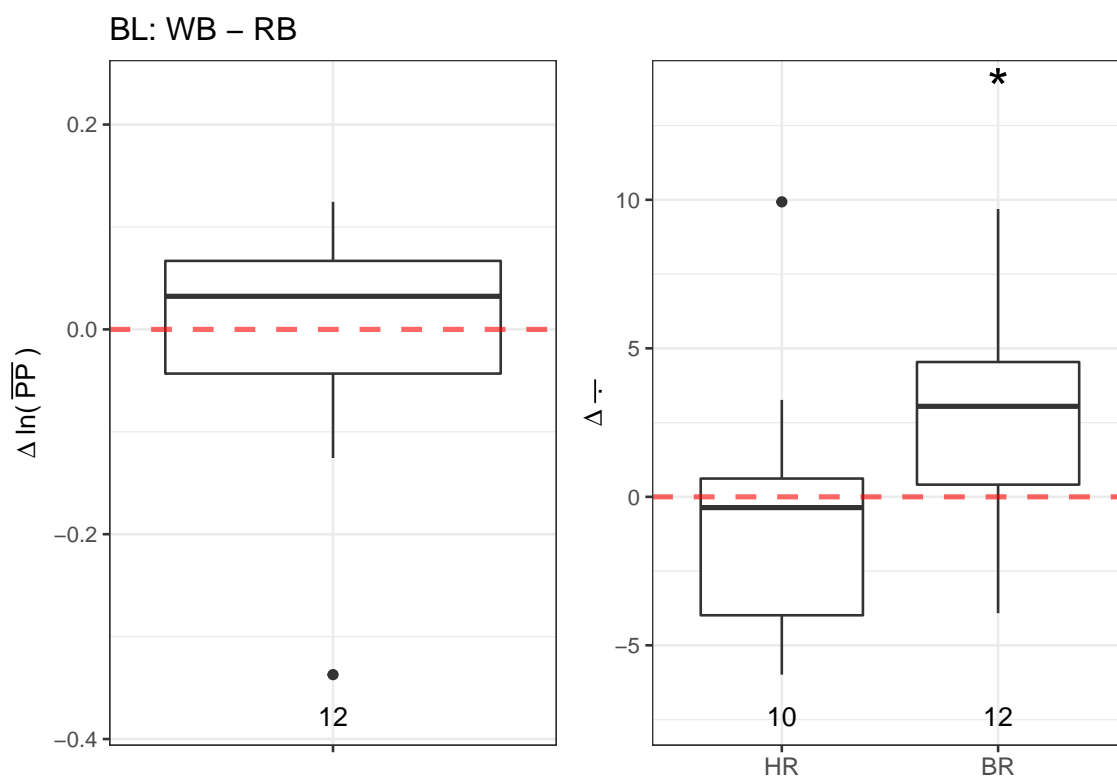
```
## t-test p = 0.019 < 0.05  *  
##  
## Presentation - Dual Task  
## t-test p = 0.0079 < 0.01  **
```

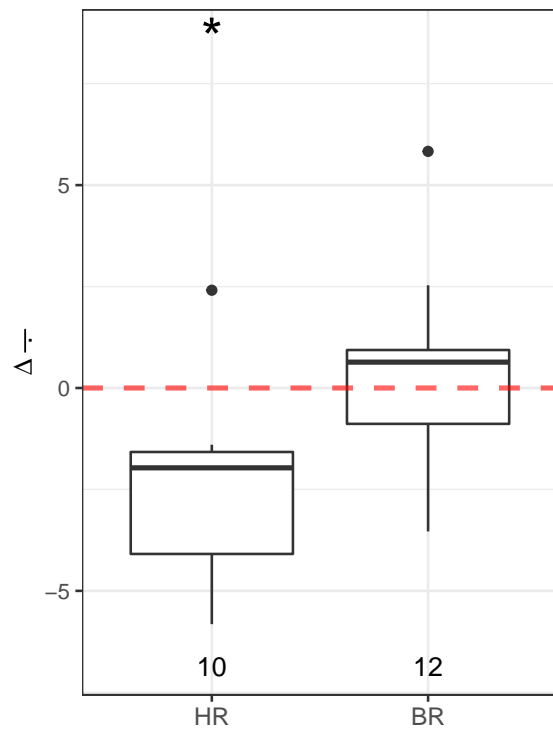
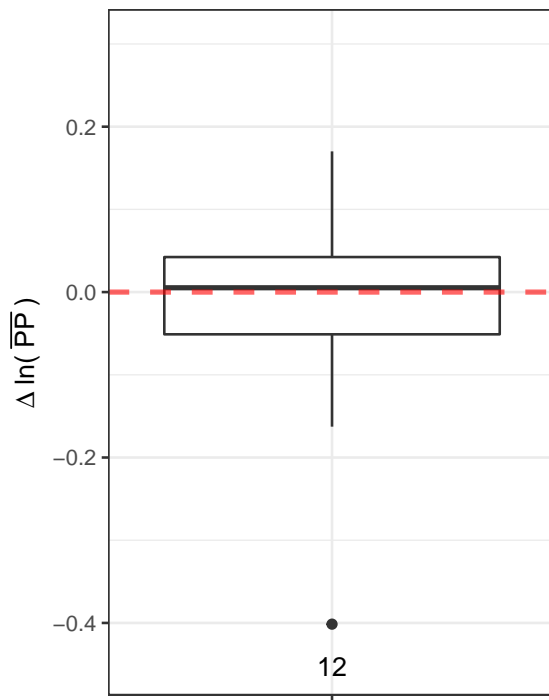
```
## Writing Baseline - Resting Baseline
## t-test p = 1e-04 < 0.001 ***
##
## Stress Condition - Resting Baseline
## t-test p = 0.0071 < 0.01 **
##
## StressCondition - Writing Baseline
## t-test p = 0.7954 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.1324 > 0.05
##
## Dual Task - Writing Baseline
## t-test p = 0 < 0.001 ***
##
## Dual Task - Stress Condition
## t-test p = 0.026 < 0.05 *
```


Batch-Low (BL)

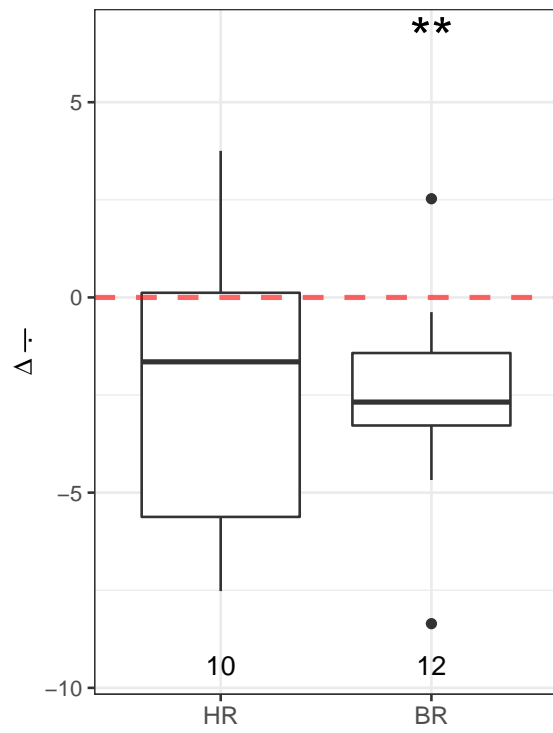
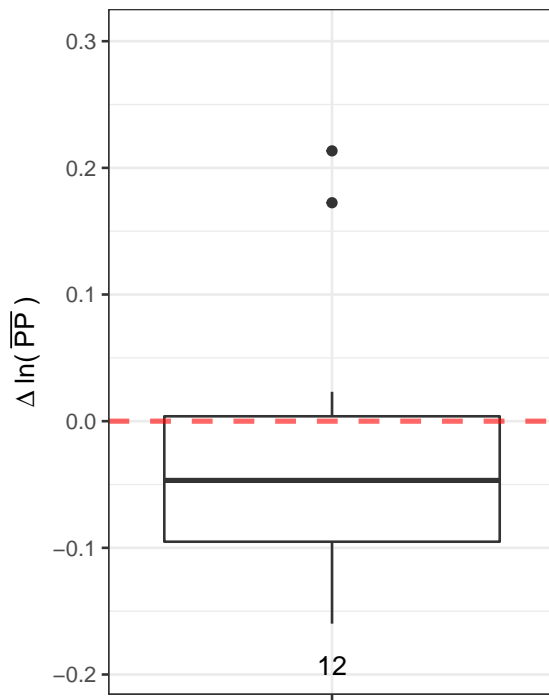
Sensor Channels per Session



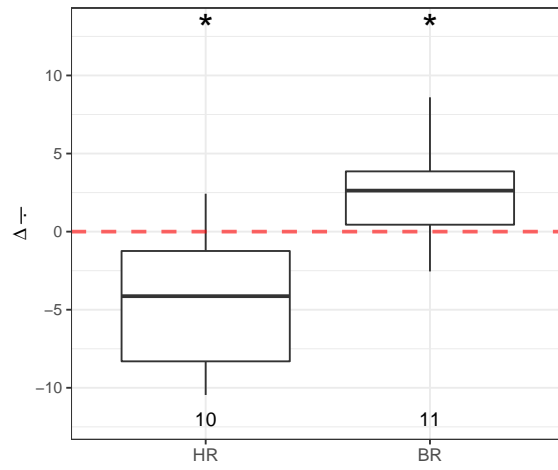
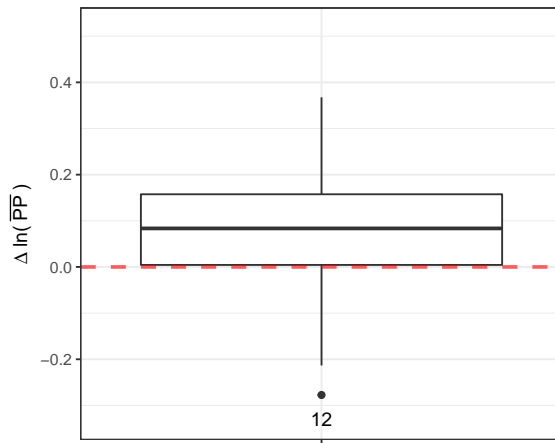
BL: SC – RB



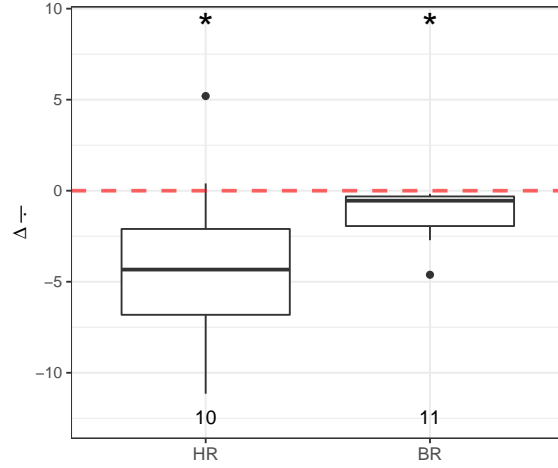
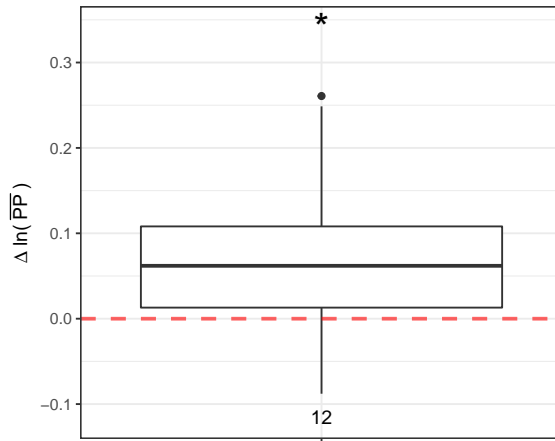
BL: SC – WB



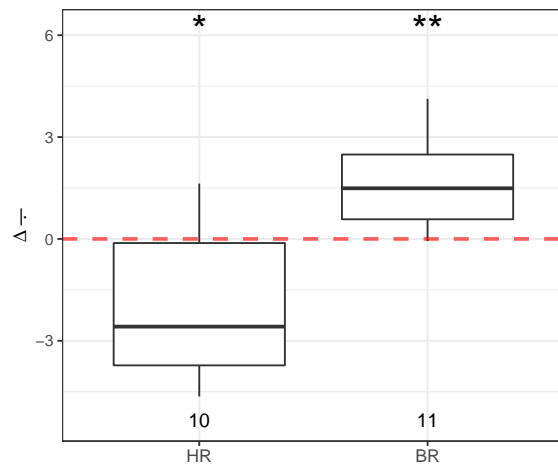
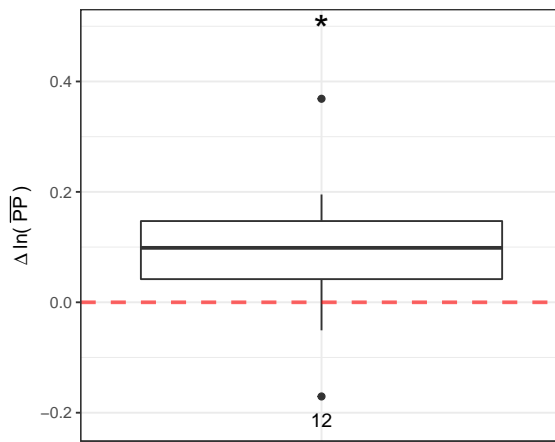
BL: DT – RB

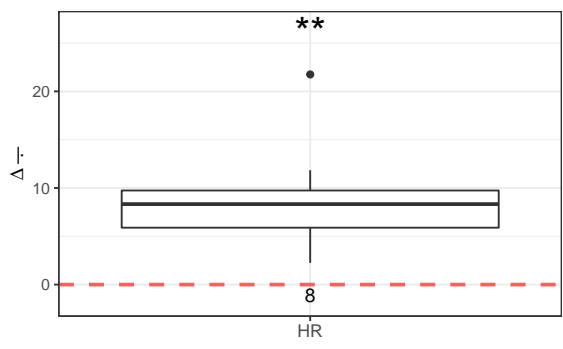
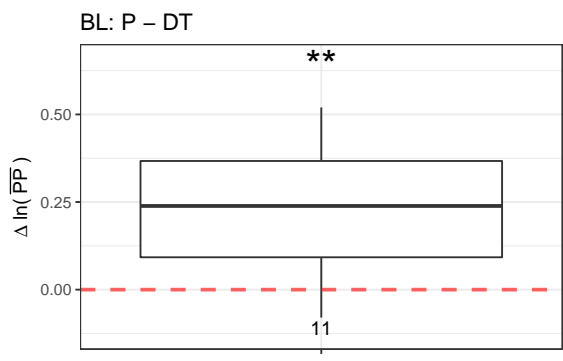
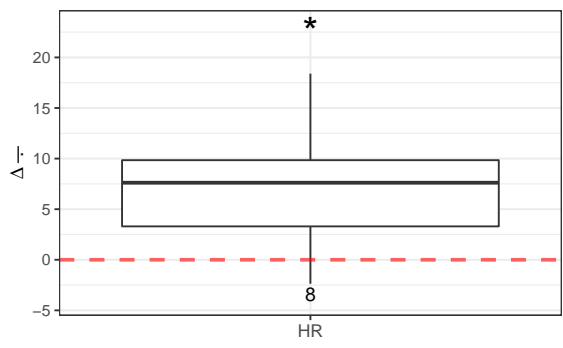
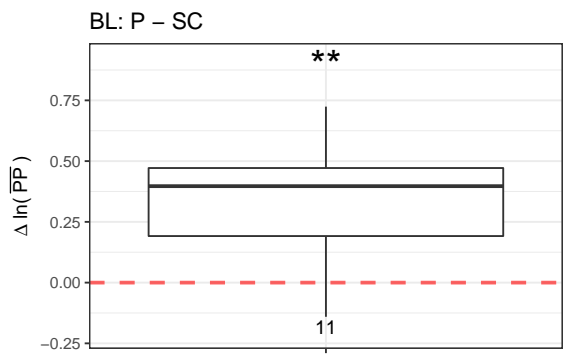
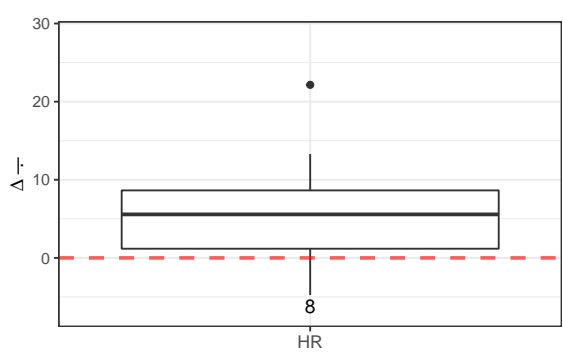
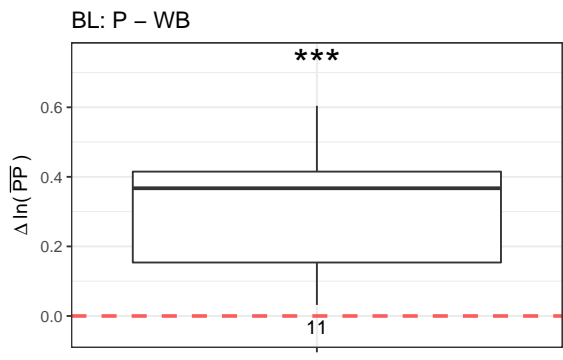
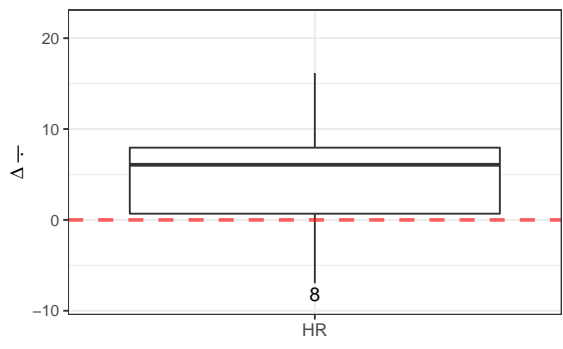
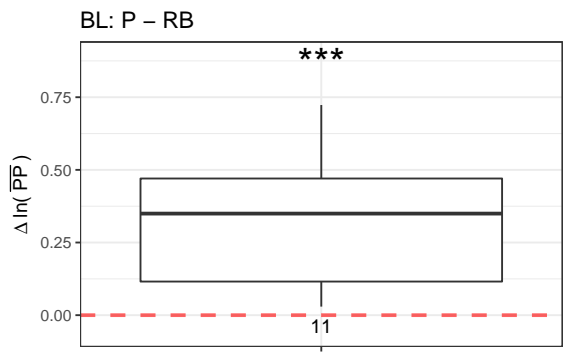


BL: DT – WB

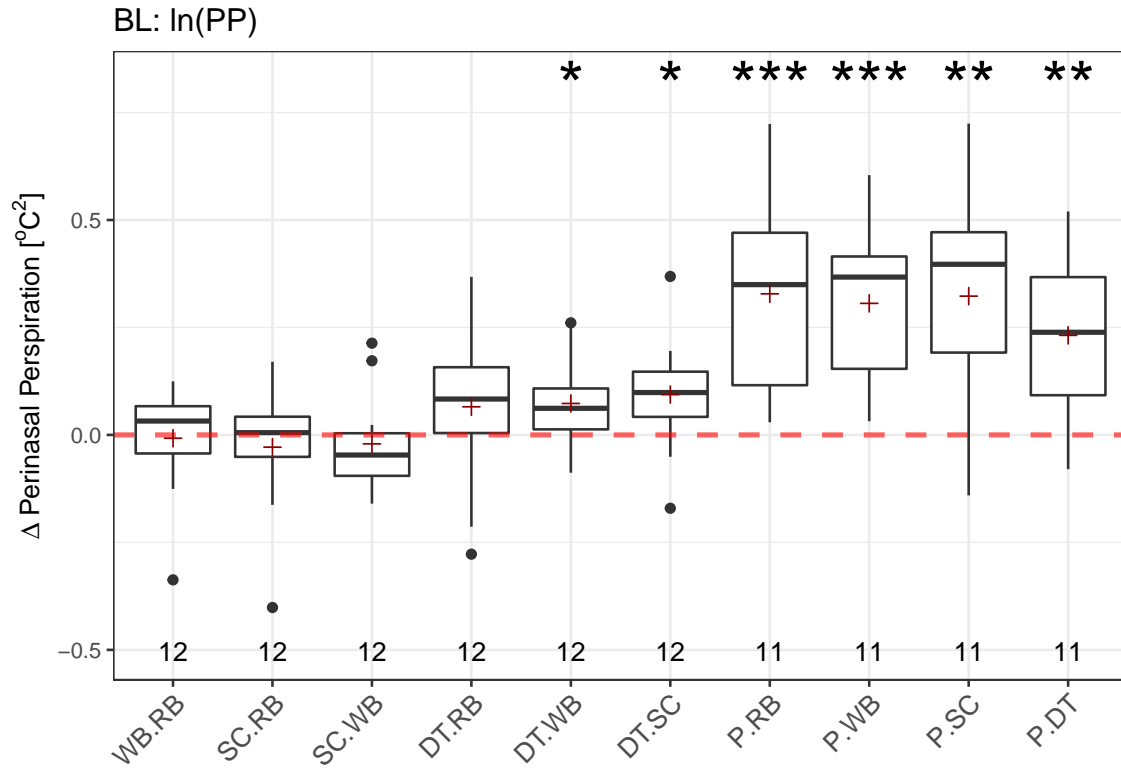


BL: DT – SC





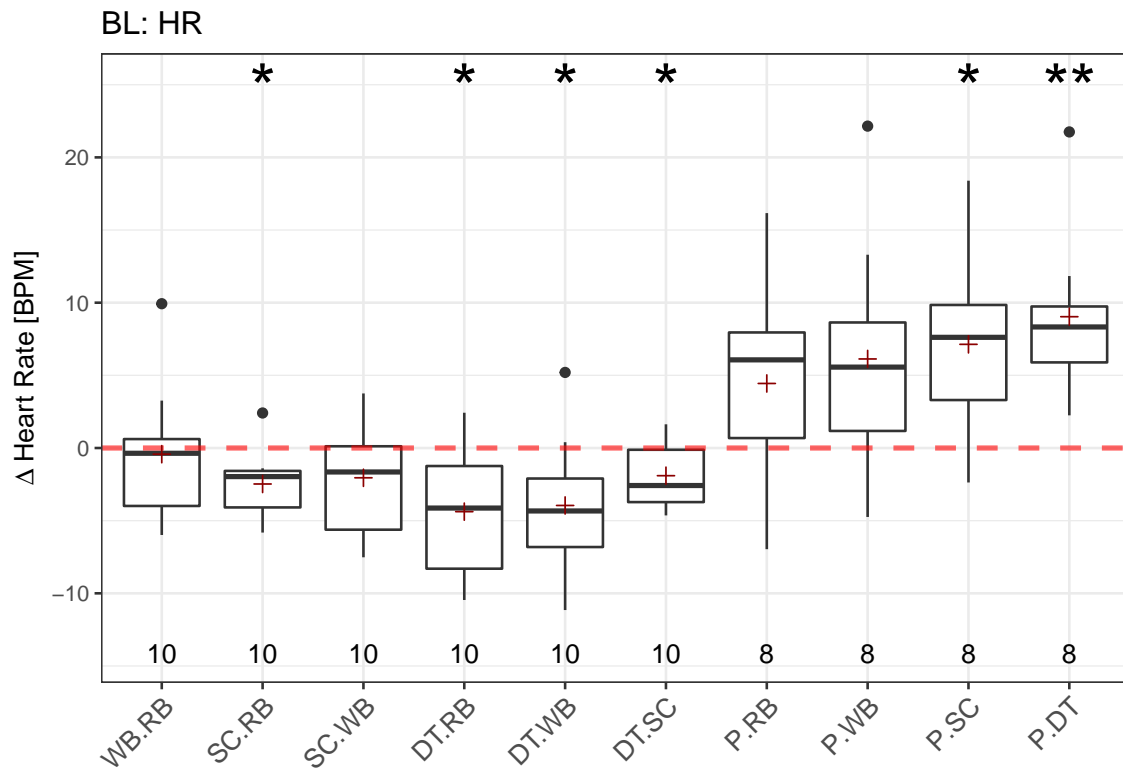
Sensor Channel across Session



```
## Writing Baseline - Resting Baseline
## t-test p = 0.8433 > 0.05
##
## Stress Condition - Resting Baseline
## t-test p = 0.5174 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.5352 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.2305 > 0.05
##
## Dual Task - Writing Baseline
## t-test p = 0.0324 < 0.05  *
##
## Dual Task - Stress Condition
## t-test p = 0.0339 < 0.05  *
##
## Presentation - Resting Baseline
## t-test p = 7e-04 < 0.001  ***
##
## Presentation - Writing Baseline
## t-test p = 3e-04 < 0.001  ***
```

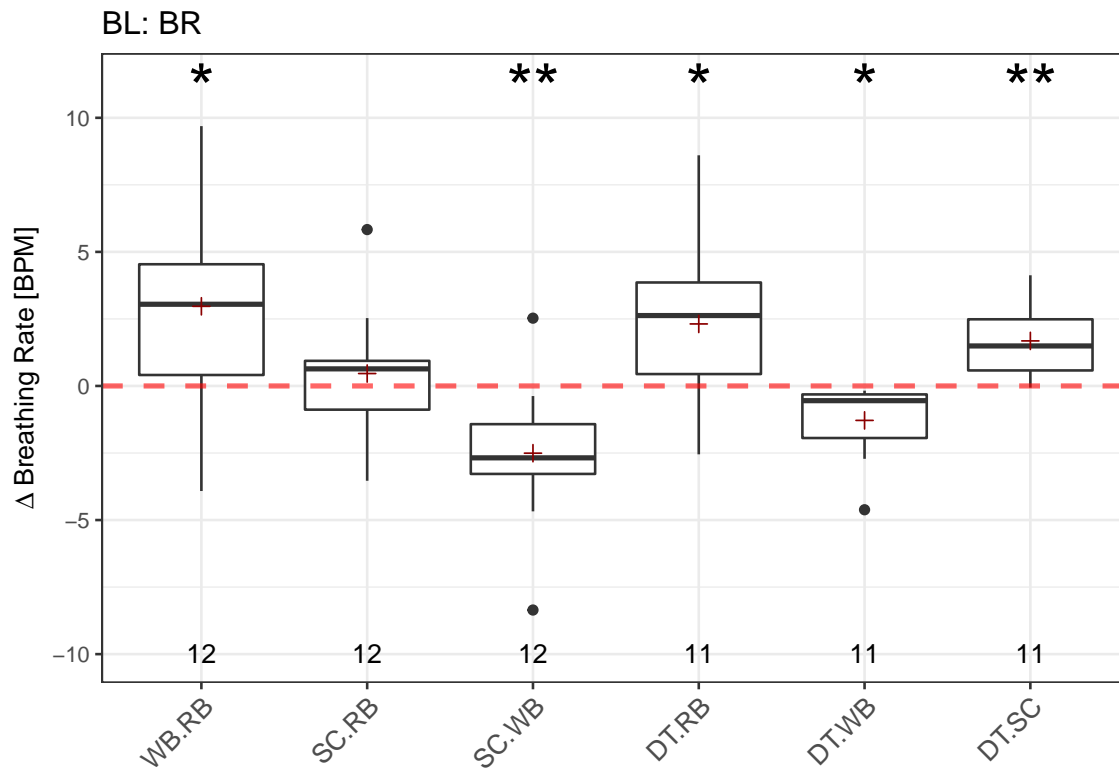


```
##  
## Presentation - Stress Condition  
## t-test p = 0.0018 < 0.01  **  
##  
## Presentation - Dual Task  
## t-test p = 0.0022 < 0.01  **
```



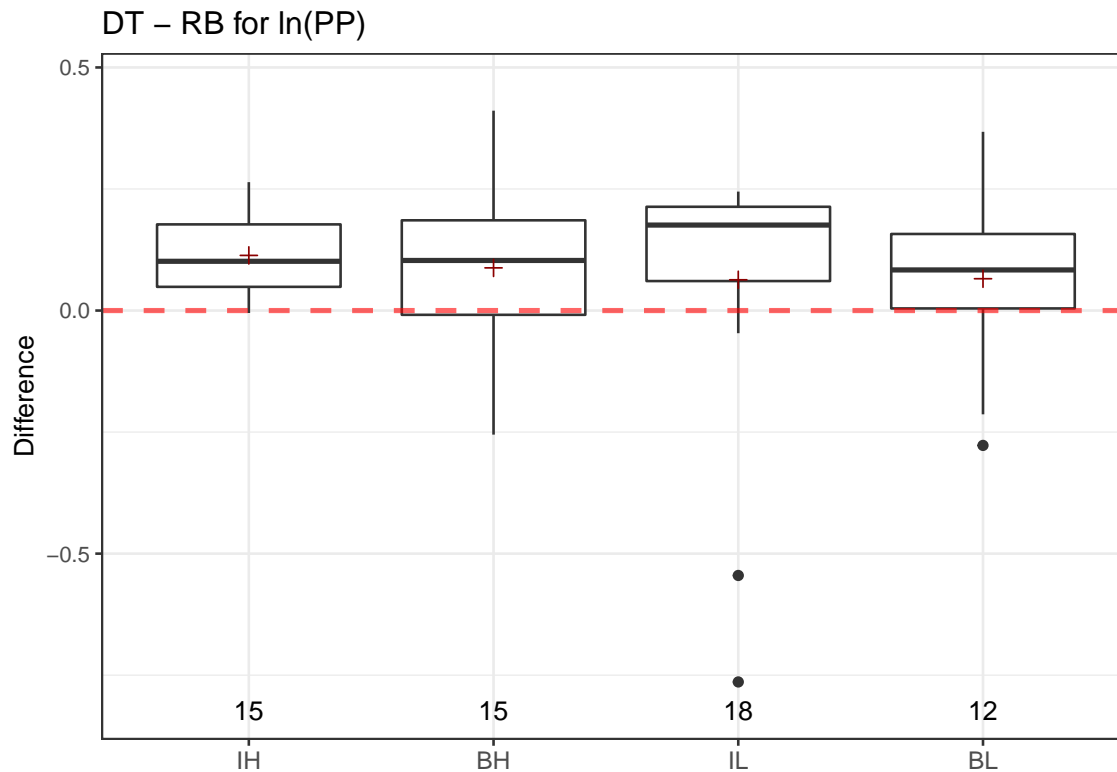
```
## Writing Baseline - Resting Baseline
## t-test p = 0.7812 > 0.05
##
## Stress Condition - Resting Baseline
## t-test p = 0.0103 < 0.05  *
##
## StressCondition - Writing Baseline
## t-test p = 0.1456 > 0.05
##
## Dual Task - Resting Baseline
## t-test p = 0.0108 < 0.05  *
##
## Dual Task - Writing Baseline
## t-test p = 0.0258 < 0.05  *
##
## Dual Task - Stress Condition
## t-test p = 0.0327 < 0.05  *
##
## Presentation - Resting Baseline
## t-test p = 0.1315 > 0.05
##
## Presentation - Writing Baseline
## t-test p = 0.0826 > 0.05
##
## Presentation - Stress Condition
```

```
## t-test p = 0.0152 < 0.05  *  
##  
## Presentation - Dual Task  
## t-test p = 0.0035 < 0.01  **
```

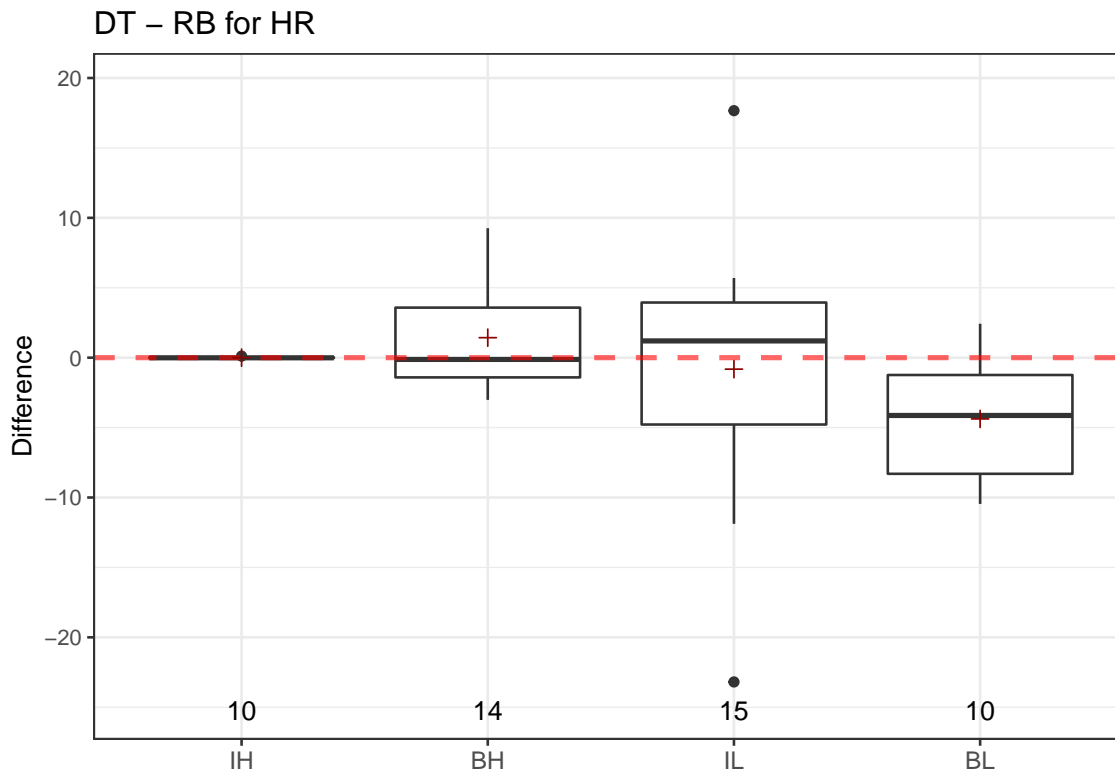


```
## Writing Baseline - Resting Baseline
## t-test p = 0.0213 < 0.05  *
##
## Stress Condition - Resting Baseline
## t-test p = 0.4994 > 0.05
##
## StressCondition - Writing Baseline
## t-test p = 0.007 < 0.01  **
##
## Dual Task - Resting Baseline
## t-test p = 0.0319 < 0.05  *
##
## Dual Task - Writing Baseline
## t-test p = 0.0131 < 0.05  *
##
## Dual Task - Stress Condition
## t-test p = 0.0029 < 0.01  **
```

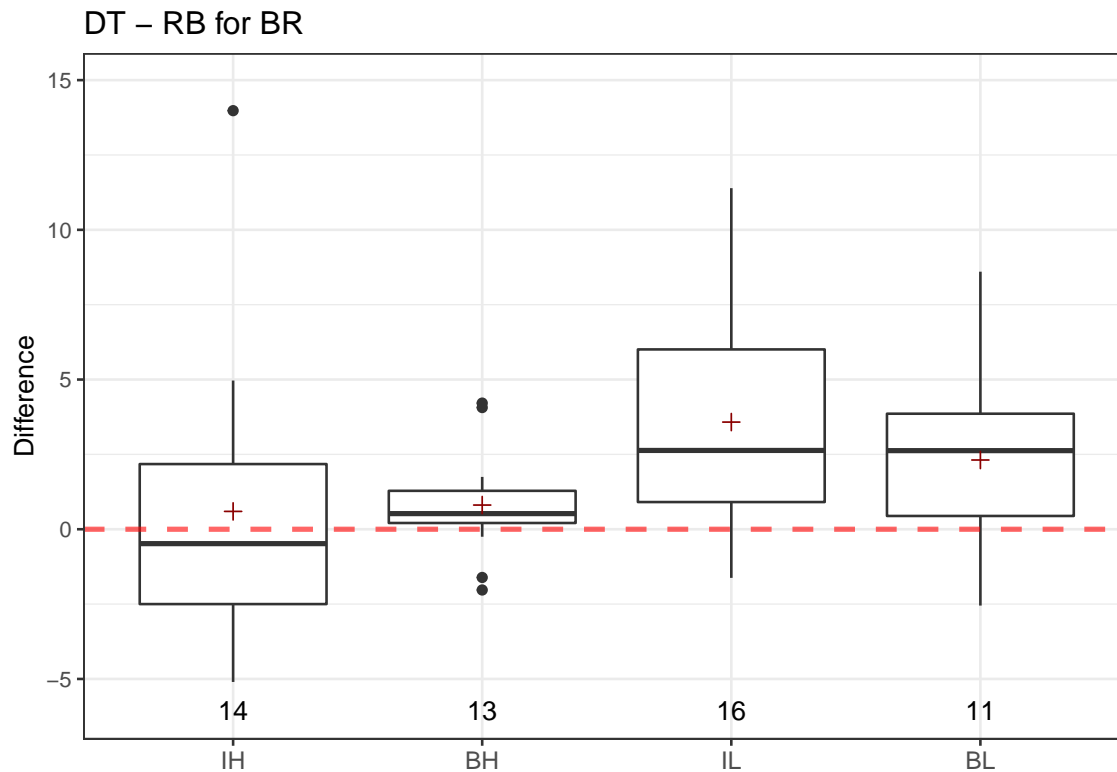

Across Sessions



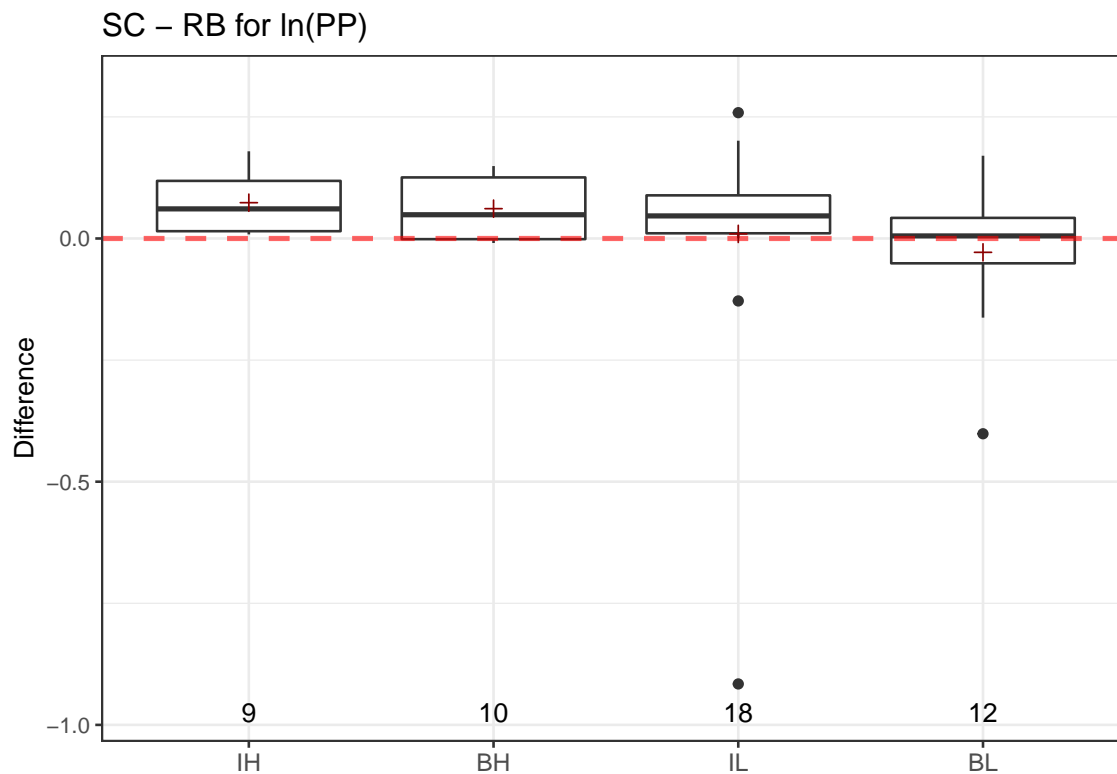
```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition    3  0.0249  0.00830    0.221  0.881
## Residuals   56  2.0981  0.03747
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##           diff           lwr           upr           p adj
## BL-BH -0.022326874 -0.2208297  0.1761760  0.9907150
## IH-BH  0.025611581 -0.1615387  0.2127618  0.9835522
## IL-BH -0.024530740 -0.2037135  0.1546520  0.9835337
## IH-BL  0.047938455 -0.1505644  0.2464413  0.9187587
## IL-BL -0.002203866 -0.1932133  0.1888056  0.9999896
## IL-IH -0.050142321 -0.2293251  0.1290404  0.8800917
```



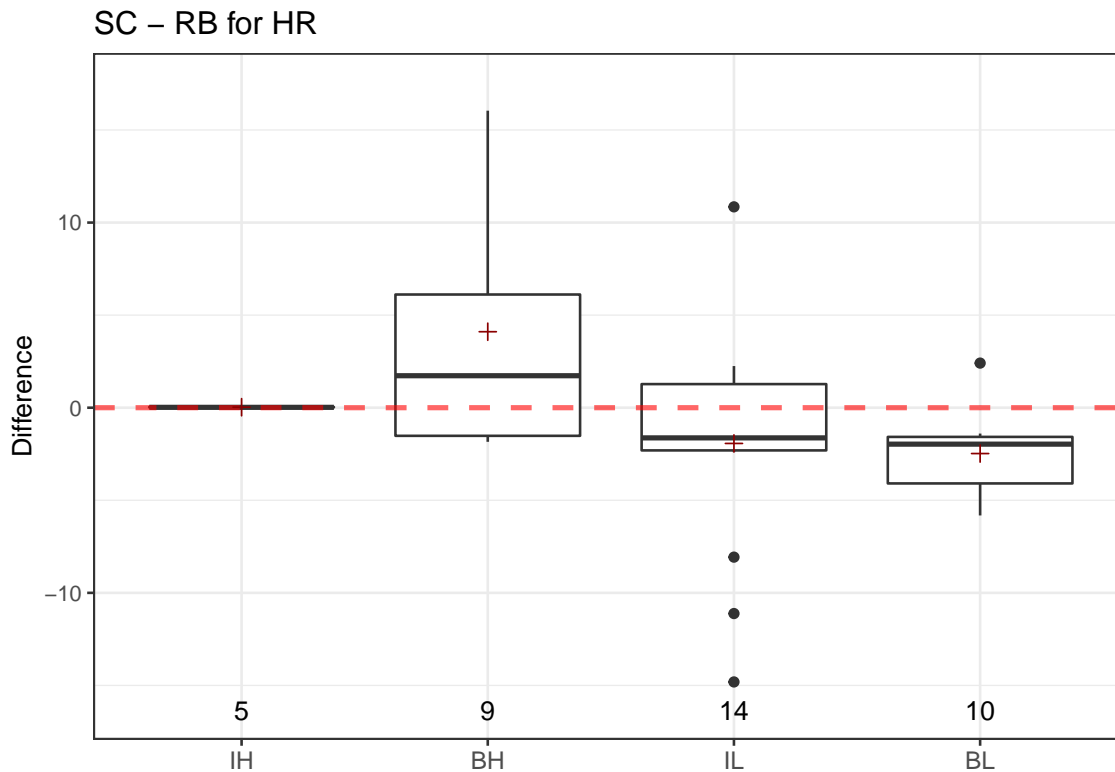
```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3    204    68.01   1.988  0.129
## Residuals  45   1540    34.22
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##           diff           lwr           upr          p adj
## BL-BH -5.8105026 -12.271528  0.6505223 0.0917771
## IH-BH -1.4303330  -7.891358  5.0306920 0.9344190
## IL-BH -2.2513207  -8.050268  3.5476266 0.7295653
## IH-BL  4.3801697  -2.598535 11.3588742 0.3489067
## IL-BL  3.5591819  -2.811475  9.9298384 0.4516232
## IL-IH -0.8209878  -7.191644  5.5496687 0.9858452
```

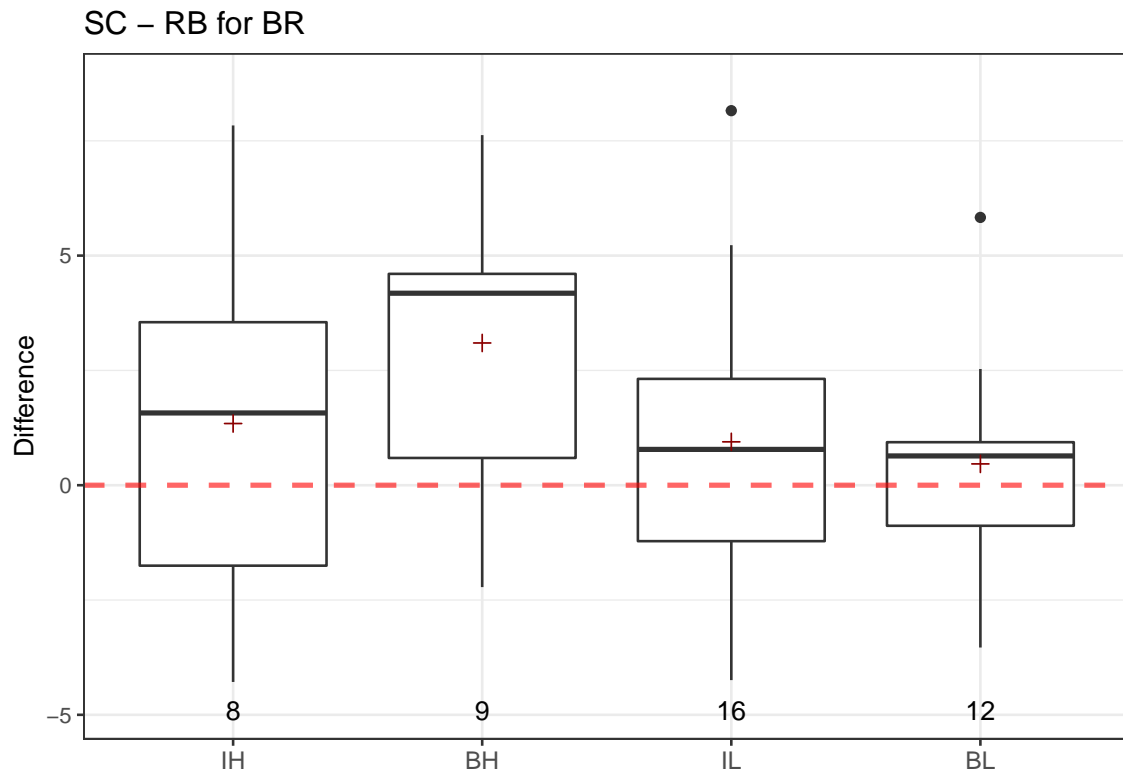
```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3   86.3   28.76    2.104  0.111
## Residuals  50  683.3   13.67
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##           diff           lwr           upr           p adj
## BL-BH  1.5049079 -2.5200424  5.529858  0.7536862
## IH-BH -0.2119399 -3.9960965  3.572217  0.9988085
## IL-BH  2.7711768 -0.8973377  6.439691  0.1989563
## IH-BL -1.7168478 -5.6753651  2.241670  0.6590569
## IL-BL  1.2662689 -2.5818498  5.114388  0.8179748
## IL-IH  2.9831167 -0.6123853  6.578619  0.1359019
```



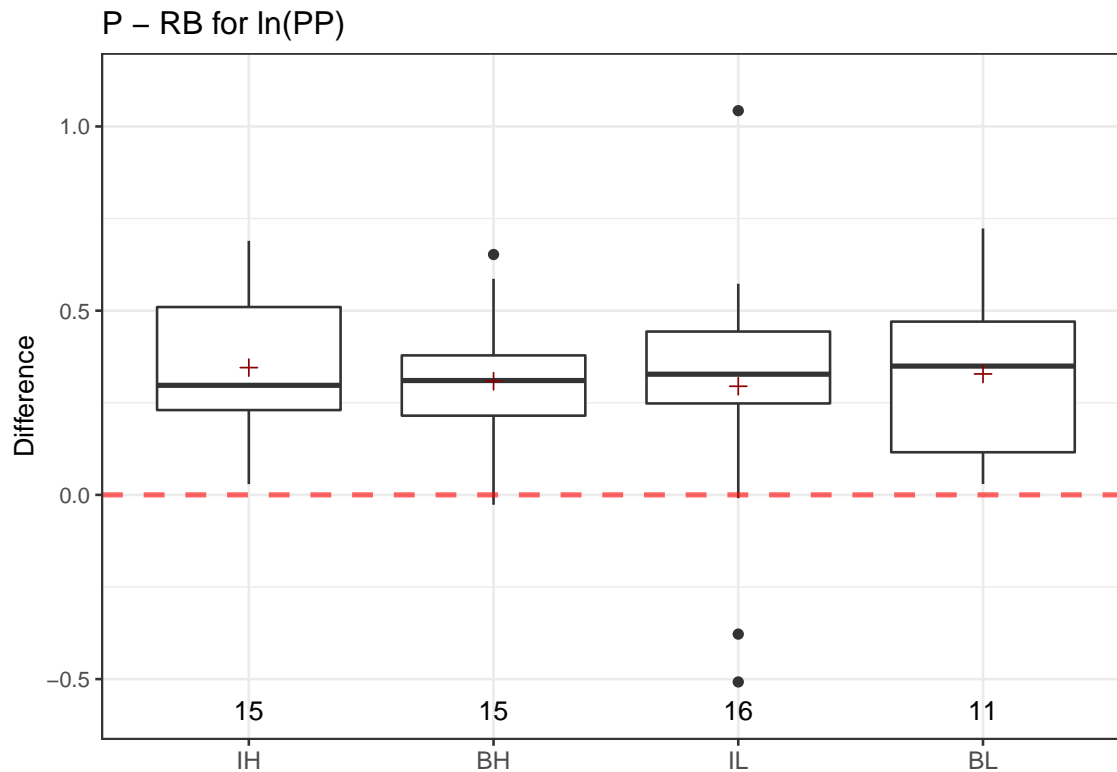
```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
## ---
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3  0.0728  0.02427    0.822  0.489
## Residuals  45  1.3288  0.02953
##
## ---
##
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = formula(paste(diff, "~ Condition")), data = anova_df)
##
## $Condition
##           diff           lwr           upr           p adj
## BL-BH -0.08979869 -0.2860815  0.1064842  0.6173145
## IH-BH  0.01229177 -0.1983367  0.2229203  0.9986356
## IL-BH -0.05181676 -0.2326192  0.1289857  0.8699228
## IH-BL  0.10209046 -0.1000529  0.3042338  0.5383634
## IL-BL  0.03798193 -0.1328604  0.2088242  0.9336536
## IL-IH -0.06410853 -0.2512569  0.1230398  0.7975838
```



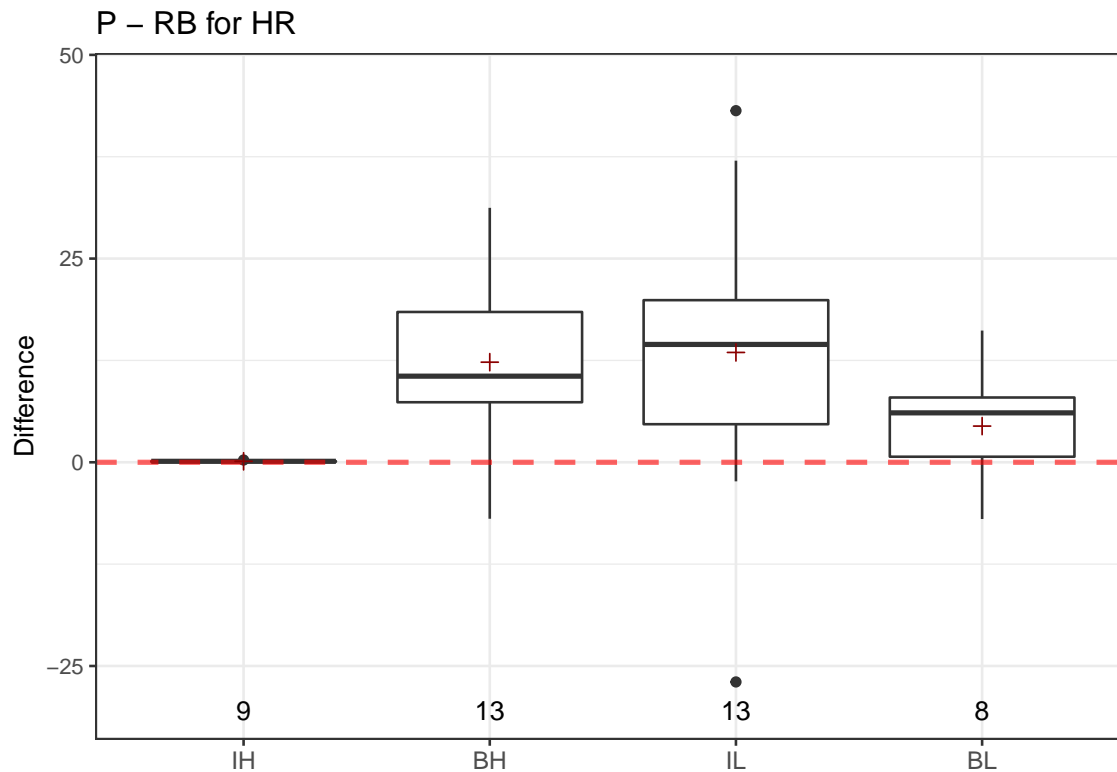
```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
## ---
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3  259.4    86.45   3.219 0.0348 *
## Residuals  34  913.0    26.85
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## ---
##
##      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 -6.5799547 -13.010446 -0.14946344 0.0433014
## IH-BH -4.0765265 -11.882847  3.72979389 0.5017524
## IL-BH -6.0340801 -12.013613 -0.05454727 0.0472686
## IH-BL  2.5034283  -5.162226 10.16908268 0.8141242
## IL-BL  0.5458746  -5.248815  6.34056471 0.9941124
## IL-IH -1.9575536  -9.249045  5.33393814 0.8863834
```



```
## [1] "Removed 12 subjects who had Stroop scores less than 30."
##
## ---
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3   39.5   13.16   1.285  0.292
## Residuals  41  419.8   10.24
##
## ---
##
##      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 -2.6335190 -6.411679  1.144642  0.2581994
## IH-BH -1.7541503 -5.917480  2.409180  0.6744832
## IL-BH -2.1527332 -5.722759  1.417293  0.3818948
## IH-BL  0.8793687 -3.031399  4.790136  0.9308213
## IL-BL  0.4807858 -2.791197  3.752769  0.9790607
## IL-IH -0.3985828 -4.108663  3.311497  0.9915787
```



```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition   3  0.022  0.00748   0.109  0.954
## Residuals  53  3.622  0.06833
##
## ---
##
##      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  0.01981345 -0.2554283  0.2950552  0.9975008
## IH-BH  0.03702630 -0.2161593  0.2902118  0.9799627
## IL-BH -0.01362870 -0.2628268  0.2355694  0.9988974
## IH-BL  0.01721284 -0.2580289  0.2924546  0.9983556
## IL-BL -0.03344215 -0.3050205  0.2381362  0.9878309
## IL-IH -0.05065499 -0.2998531  0.1985431  0.9490357
```



```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Condition    3   1272    423.9    2.772 0.0543 .
## Residuals   39   5965    152.9
## ---
## 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  -7.844796 -22.756989   7.067397  0.4998801
## IH-BH -12.166763 -26.556967   2.223441  0.1230886
## IL-BH   1.193799 -11.822630  14.210228  0.9946754
## IH-BL  -4.321966 -20.447227  11.803295  0.8888525
## IL-BL   9.038595  -5.873598  23.950788  0.3760510
## IL-IH  13.360562  -1.029642  27.750766  0.0770635
```

Summary

Condition	Difference	Measure	p	Test	n	Significance
BH	WB - RB	PP	0.0352153	t-test	15	*
BH	WB - RB	HR	0.0000428	t-test	14	***
BH	WB - RB	BR	0.0000774	t-test	14	***
BH	SC - RB	PP	0.2413388	t-test	15	
BH	SC - RB	HR	0.0312037	t-test	14	*
BH	SC - RB	BR	0.0070531	t-test	14	**
BH	SC - WB	PP	0.3040482	t-test	15	
BH	SC - WB	HR	0.6059893	t-test	14	
BH	SC - WB	BR	0.7954120	t-test	14	
BH	DT - RB	PP	0.0505188	t-test	15	
BH	DT - RB	HR	0.1825400	t-test	14	
BH	DT - RB	BR	0.1324106	t-test	13	
BH	DT - WB	PP	0.5186918	t-test	15	
BH	DT - WB	HR	0.0031391	t-test	14	**
BH	DT - WB	BR	0.0000088	t-test	13	***
BH	DT - SC	PP	0.1743711	t-test	15	
BH	DT - SC	HR	0.0763288	t-test	14	
BH	DT - SC	BR	0.0259816	t-test	13	*
BH	P - RB	PP	0.0000132	t-test	15	***
BH	P - RB	HR	0.0030488	t-test	13	**
BH	P - WB	PP	0.0002321	t-test	15	***
BH	P - WB	HR	0.0250320	t-test	13	*
BH	P - SC	PP	0.0001317	t-test	15	***
BH	P - SC	HR	0.0190035	t-test	13	*
BH	P - DT	PP	0.0000409	t-test	15	***
BH	P - DT	HR	0.0078854	t-test	13	**
BL	WB - RB	PP	0.8433458	t-test	12	
BL	WB - RB	HR	0.7811862	t-test	10	
BL	WB - RB	BR	0.0212853	t-test	12	*
BL	SC - RB	PP	0.5173705	t-test	12	
BL	SC - RB	HR	0.0102841	t-test	10	*
BL	SC - RB	BR	0.4994220	t-test	12	
BL	SC - WB	PP	0.5351977	t-test	12	
BL	SC - WB	HR	0.1456147	t-test	10	
BL	SC - WB	BR	0.0070054	t-test	12	**
BL	DT - RB	PP	0.2305415	t-test	12	
BL	DT - RB	HR	0.0108477	t-test	10	*
BL	DT - RB	BR	0.0318774	t-test	11	*
BL	DT - WB	PP	0.0323522	t-test	12	*
BL	DT - WB	HR	0.0257532	t-test	10	*
BL	DT - WB	BR	0.0130720	t-test	11	*
BL	DT - SC	PP	0.0338649	t-test	12	*
BL	DT - SC	HR	0.0327077	t-test	10	*
BL	DT - SC	BR	0.0029055	t-test	11	**
BL	P - RB	PP	0.0007263	t-test	11	***

(continued)

Condition	Difference	Measure	p	Test	n	Significance
BL	P - RB	HR	0.1315024	t-test	8	
BL	P - WB	PP	0.0003158	t-test	11	***
BL	P - WB	HR	0.0825614	t-test	8	
BL	P - SC	PP	0.0017619	t-test	11	**
BL	P - SC	HR	0.0151621	t-test	8	*
BL	P - DT	PP	0.0022356	t-test	11	**
BL	P - DT	HR	0.0035014	t-test	8	**
IH	WB - RB	PP	0.0005619	t-test	15	***
IH	WB - RB	HR	0.0141203	Transformed t-test	10	*
IH	WB - RB	BR	0.0327345	t-test	14	*
IH	SC - RB	PP	0.0150718	t-test	15	*
IH	SC - RB	HR	0.1603922	Transformed t-test	10	
IH	SC - RB	BR	0.1440535	t-test	14	
IH	SC - WB	PP	0.3733040	t-test	15	
IH	SC - WB	HR	0.5965140	Transformed t-test	10	
IH	SC - WB	BR	0.1515492	t-test	14	
IH	DT - RB	PP	0.0000913	t-test	15	***
IH	DT - RB	HR	0.9882509	Transformed t-test	10	
IH	DT - RB	BR	0.6464429	t-test	14	
IH	DT - WB	PP	0.4778497	t-test	15	
IH	DT - WB	HR	0.0756729	Transformed t-test	10	
IH	DT - WB	BR	0.0004343	t-test	14	***
IH	DT - SC	PP	0.2936782	t-test	15	
IH	DT - SC	HR	0.3773754	Transformed t-test	10	
IH	DT - SC	BR	0.2686204	t-test	14	
IH	P - RB	PP	0.0000262	t-test	15	***
IH	P - RB	HR	0.0024447	Transformed t-test	9	**
IH	P - WB	PP	0.0003589	t-test	15	***
IH	P - WB	HR	0.0044530	Transformed t-test	9	**
IH	P - SC	PP	0.0002149	t-test	15	***
IH	P - SC	HR	0.0048671	Transformed t-test	9	**
IH	P - DT	PP	0.0004837	t-test	15	***
IH	P - DT	HR	0.0001638	Transformed t-test	9	***
IL	WB - RB	PP	0.0018573	t-test	18	**
IL	WB - RB	HR	0.0167069	t-test	15	*
IL	WB - RB	BR	0.0002914	t-test	15	***
IL	SC - RB	PP	0.8712826	t-test	18	
IL	SC - RB	HR	0.2669373	t-test	14	
IL	SC - RB	BR	0.2700421	t-test	16	
IL	SC - WB	PP	0.0292817	t-test	18	*
IL	SC - WB	HR	0.0000048	t-test	14	***
IL	SC - WB	BR	0.0001511	t-test	15	***
IL	DT - RB	PP	0.3458176	t-test	18	
IL	DT - RB	HR	0.7345132	t-test	15	
IL	DT - RB	BR	0.0034643	t-test	16	**
IL	DT - WB	PP	0.3005530	t-test	18	
IL	DT - WB	HR	0.0017292	t-test	15	**

(continued)

Condition	Difference	Measure	p	Test	n	Significance
IL	DT - WB	BR	0.0052641	t-test	15	**
IL	DT - SC	PP	0.1502612	t-test	18	
IL	DT - SC	HR	0.4266015	t-test	14	
IL	DT - SC	BR	0.0029021	t-test	16	**
IL	P - RB	PP	0.0053576	t-test	16	**
IL	P - RB	HR	0.0189996	t-test	13	*
IL	P - WB	PP	0.0287956	t-test	16	*
IL	P - WB	HR	0.0350368	t-test	13	*
IL	P - SC	PP	0.0008469	t-test	16	***
IL	P - SC	HR	0.0080668	t-test	12	**
IL	P - DT	PP	0.0001468	t-test	16	***
IL	P - DT	HR	0.0016854	t-test	13	**