## **HC Subjects: BL vs SWD**

## One-way ANOVA:

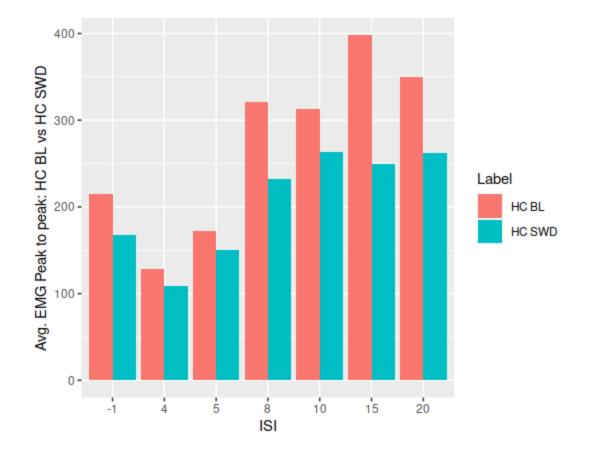
```
> res <- aov(EMGPeakToPeak ~ Label, df %>% filter(Group == 1))
> summary(res)
            Df Sum Sq Mean Sq F value Pr(>F)
             1 2136677 2136677 51.99 7.59e-13 ***
Residuals 2230 91639832 41094
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
# Robust tests
> X <- filter(df, Group == 1)</pre>
> a <- X %>% filter(Type == "SWD")
> b <- X %>% filter(Type == "BL")
# Wilcox (median) : Differences found
> wilcox.test(a$EMGPeakToPeak, b$EMGPeakToPeak)
       Wilcoxon rank sum test with continuity correction
data: a$EMGPeakToPeak and b$EMGPeakToPeak
W = 491658, p-value < 2.2e-16
alternative hypothesis: true location shift is not equal to 0
# Permutation test: Differences found
> summary(lmp(EMGPeakToPeak~Label,data=X))
[1] "Settings: unique SS "
Call:
lmp(formula = EMGPeakToPeak ~ Label, data = X)
Residuals:
  Min 1Q Median
                          30
-254.11 -146.68 -59.14 82.86 1049.09
Coefficients:
      Estimate Iter Pr(Prob)
Label1 30.96 5000 <2e-16 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 202.7 on 2230 degrees of freedom
```

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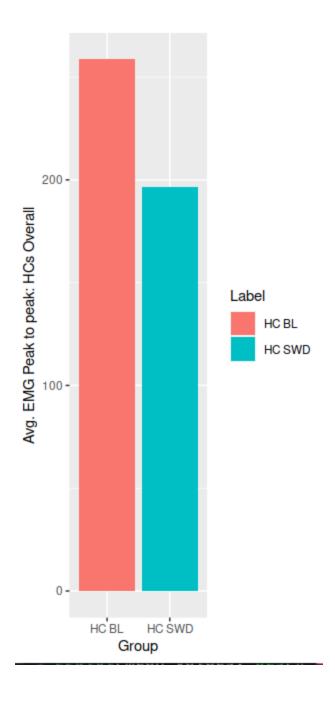
```
Multiple R-Squared: 0.02278, Adjusted R-squared: 0.02235
F-statistic: 51.99 on 1 and 2230 DF, p-value: 7.586e-13
```

## Two-way ANOVA:

```
> res <- aov(EMGPeakToPeak ~ Label * ISI, df %>% filter(Group == 1))
> summary(res)
                                          Pr(>F)
             Df Sum Sq Mean Sq F value
              1 2136677 2136677 55.895 1.09e-13 ***
Label
              1 6124357 6124357 160.211 < 2e-16 ***
ISI
                                   9.061 0.00264 **
Label:ISI
              1
                  346375 346375
           2228 85169100
                         38227
Residuals
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```



HC Subjects: BL vs SWD 2



HC Subjects: BL vs SWD 3