## **SWD Sessions: HC vs MDD**

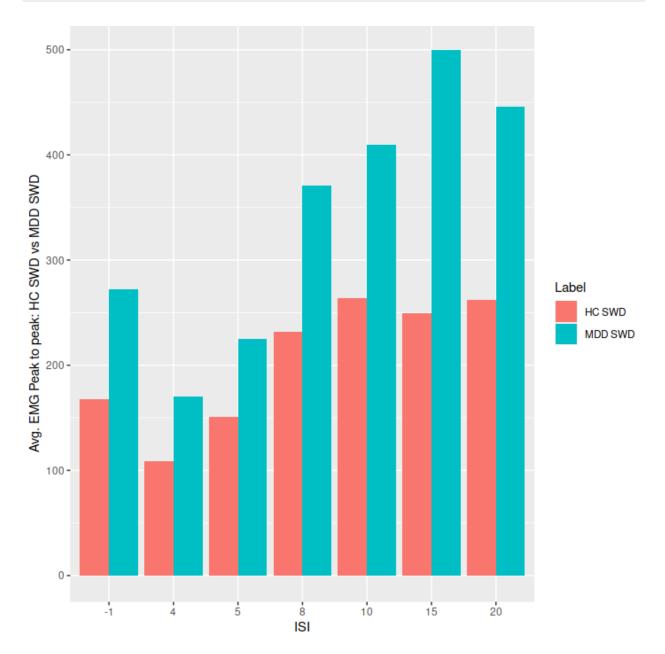
## One-way ANOVA:

```
> res <- aov(EMGPeakToPeak ~ Label, df %>% filter(Type == "SWD"))
> summary(res)
             Df Sum Sq Mean Sq F value Pr(>F)
             1 11429566 11429566 140 <2e-16 ***
Label
Residuals 2806 229044966 81627
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
# ROBUST TESTS
> X <- filter(df, Type == "SWD")
> a <- X %>% filter(Group == 1)
> b <- X %>% filter(Group == 2)
# Median comparison (Wilcox test): Significant differences in the medians were found.
> wilcox.test(a$EMGPeakToPeak, b$EMGPeakToPeak)
       Wilcoxon rank sum test with continuity correction
data: a$EMGPeakToPeak and b$EMGPeakToPeak
W = 705618, p-value < 2.2e-16
alternative hypothesis: true location shift is not equal to 0
# Permutations test: Significant differences in the means were found.
> summary(lmp(EMGPeakToPeak~Label,data=X))
Coefficients:
      Estimate Iter Pr(Prob)
Label1 -64.85 5000 <2e-16 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

## Two-way ANOVA:

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```
> res <- aov(EMGPeakToPeak ~ Label * ISI, df %>% filter(Type == "SWD"))
> summary(res)
             Df
                   Sum Sq Mean Sq F value
                                           Pr(>F)
              1 11429566 11429566 148.35 < 2e-16 ***
Label
ISI
              1 11836669 11836669 153.64 < 2e-16 ***
              1 1182623 1182623
                                   15.35 9.14e-05 ***
Label:ISI
Residuals
           2804 216025673
                             77042
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```



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