

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)
Label           1  11429566 11429566    140 <2e-16 ***
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:

```

> res <- aov(EMGPeakToPeak ~ Label * ISI, df %>% filter(Type == "SWD"))
> summary(res)

```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Label	1	11429566	11429566	148.35	< 2e-16 ***
ISI	1	11836669	11836669	153.64	< 2e-16 ***
Label:ISI	1	1182623	1182623	15.35	9.14e-05 ***
Residuals	2804	216025673	77042		

```

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Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```



