Baseline Sessions: HC vs MDD

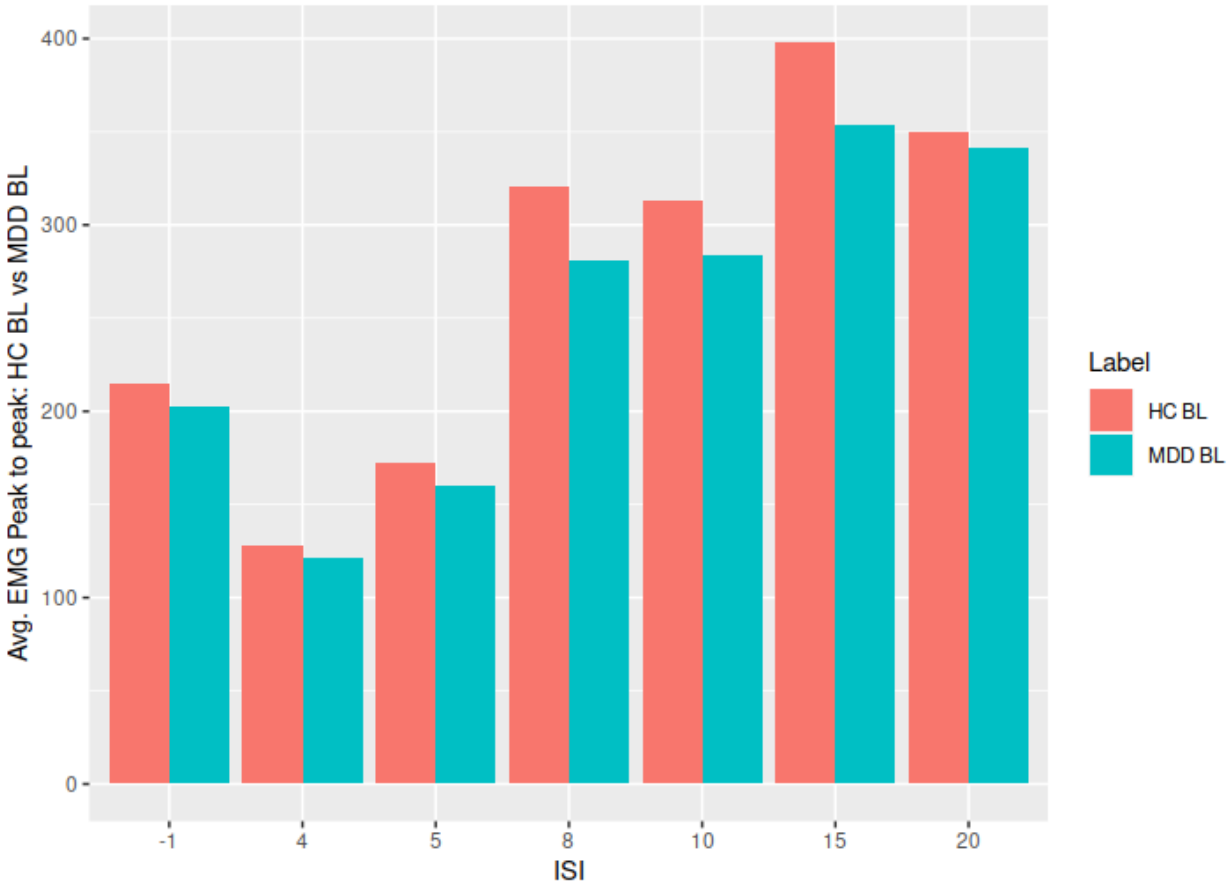
One-way ANOVA:

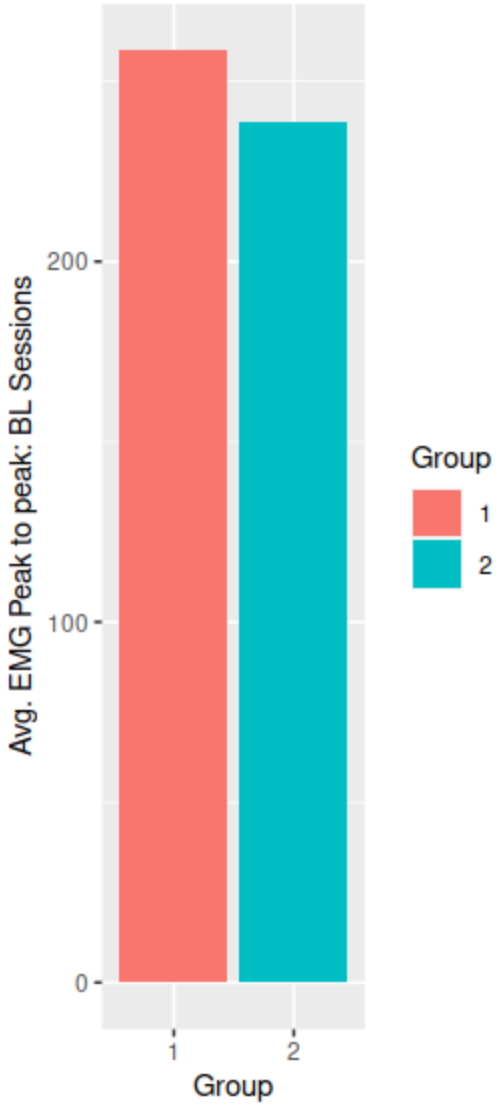
```
> res <- aov(EMGPeakToPeak ~ Label, df %>% filter(Type == "BL"))
> summary(res)
              Df    Sum Sq Mean Sq F value Pr(>F)
Label          1    261294  261294   5.466 0.0195 *
Residuals   2734 130699962   47805
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

# ROBUST TESTS

> X <- filter(df, Type == "BL")
> a <- X %>% filter(Group == 1)
> b <- X %>% filter(Group == 2)

# Wilcox (Median comparison) : Significant differences found (much
# less significant than in other cases but significant still)

> wilcox.test(a$EMGPeakToPeak, b$EMGPeakToPeak)

        Wilcoxon rank sum test with continuity correction

data:  a$EMGPeakToPeak and b$EMGPeakToPeak
W = 963592, p-value = 0.0005954
alternative hypothesis: true location shift is not equal to 0

# Permutations test: No differences found between means.

> summary(lmp(EMGPeakToPeak~Label,data=X))

Coefficients:
       Estimate Iter Pr(Prob)
Label1    9.997  337    0.231


>
```

Two-way ANOVA:

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

```
              Df    Sum Sq  Mean Sq F value Pr(>F)
Label          1    261294   261294   5.944 0.0148 *
ISI            1  10592917 10592917 240.983 <2e-16 ***
Label:ISI      1     16330    16330   0.372 0.5422
Residuals   2732 120090715    43957
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```




Avg. EMG Peak to peak: BL Sessions
200
100
0
1
2
Group
Group
1
2