CBF Correlations

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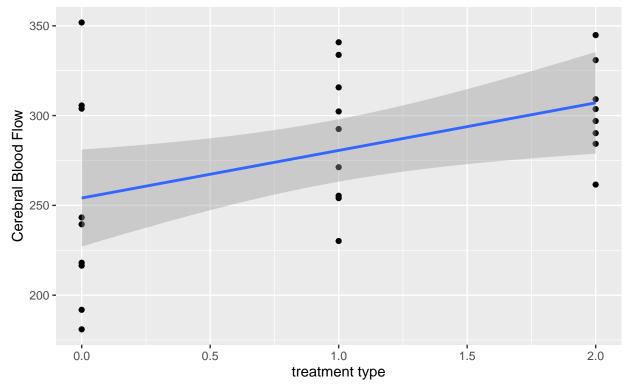
Correlations CBF and Exercise Treatment

```
m_cbf_exercise <- lm(CBF ~ treatment, data = cbf)

ggplot(data = cbf, aes(x = treatment, y = CBF)) +
    geom_point() +
    geom_smooth(method = "lm") +
    labs(title = "Test",
        subtitle = "Between age and survival",
        x = "treatment type",
        y = "Cerebral Blood Flow")</pre>
```

`geom_smooth()` using formula 'y ~ x'

Test Between age and survival

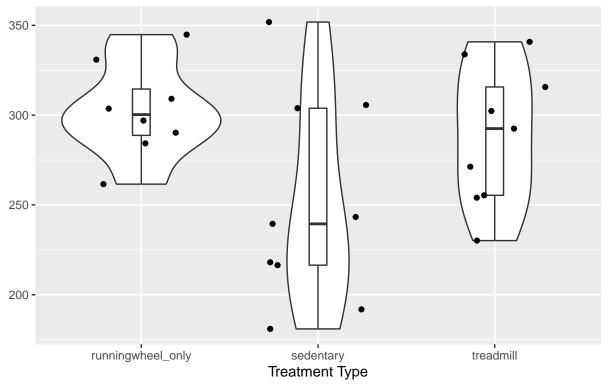


```
ggplot(data = cbf, aes(factor(Treatment), CBF)) +
geom_violin() +
```

```
geom_boxplot(width = 0.1, outlier.color = "red") +
geom_jitter(height = 0, width = 0.3) +
labs(x = "Treatment Type",
    y = "",
    title = "CBF distrubution by treatment type",
    subtitle = "Red points denoting outliers")
```

CBF distrubution by treatment type

Red points denoting outliers



```
res.aov <- aov(CBF ~ Treatment, data = cbf)
summary(res.aov)</pre>
```