Descriptives

Amputees

```
N=22 Male=15 Female=7
```

Age

```
> describe(age_amp)
```

```
vars n mean sd median trimmed mad min max range skew kurtosis se
1 1 22 47.91 13.04 48.5 48.5 14.83 20 67 47 -0.34 -0.98 2.78
```

Controls

```
N=40 Male=30 Female=10
```

Age

```
> describe(contr_age,na.rm=T)
```

```
vars n mean sd median trimmed mad min max range skew kurtosis se
1 1 39 45.82 13.01 40 45.27 11.86 27 70 43 0.37 -1.4 2.08
```

Signficance Tests

Within Amputees Affected Wrist versus Unaffected Wrist

```
> describe(wrist_aw)
```

```
vars n mean sd median trimmed mad min max range skew kurtosis se 1 1 7 14.9 6.57 10.83 14.9 3.36 8.57 25 16.43 0.4 -1.83 2.48
```

> describe(wrist_uw)

```
vars n mean sd median trimmed mad min max range skew kurtosis se
1 1 7 15.12 2.89 15.47 15.12 4 12.03 19.93 7.9 0.36 -1.52 1.09
```

> t.test(wrist_aw,wrist_uw,paired=T)

Paired t-test

Between Amputees and Controls Unaffected Hand's

> describe(cont_hands)

vars n mean sd median trimmed mad min max range skew kurtosis se
1 1 40 4.48 1.42 4.19 4.36 1.3 2.03 8.82 6.79 0.84 0.57 0.23
> describe(amp_hands)

vars n mean sd median trimmed mad min max range skew kurtosis se
1 1 20 4.85 1.55 4.47 4.67 1.45 2.98 9.02 6.04 0.96 0.3 0.35
> t.test(cont_hands,amp_hands)

Welch Two Sample t-test

data: cont_hands and amp_hands
t = -0.8982, df = 35.433, p-value = 0.3752
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:

Correlation: Age and Amputees Unaffected Wrist

```
Pearsons product-moment correlation

data: x_uw_age and y_uw

t = 0.1375, df = 5, p-value = 0.896

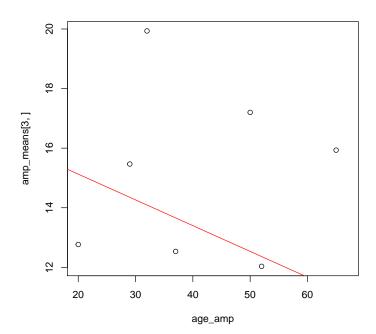
alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:
    -0.7252079   0.7784482

sample estimates:
    cor

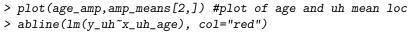
0.06136081
```

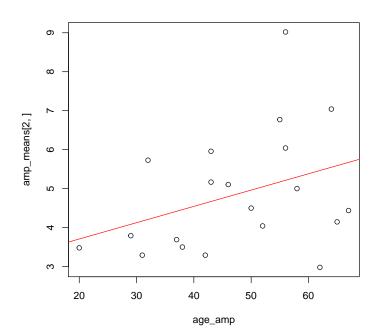
> plot(age_amp,amp_means[3,]) #plot of age and uw mean loc
> abline(lm(y_aw~x_aw_age), col="red")



Correlation: Age and Amputees Unaffected Hand

```
Pearsons product-moment correlation
data: x_uh_age and y_uh
t = 2.0326, df = 18, p-value = 0.05711
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
-0.01292106  0.73421001
sample estimates:
    cor
0.4320702
```





Correlation: Age and Amputees Affected Wrist

> plot(age_amp,amp_means[3,]) #plot of age and uw mean loc
> abline(lm(y_aw~x_aw_age), col="red")

