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 49.32 15.32   48.5   49.06 16.31  20  86    66 0.22    -0.34 3.27
```

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

data:  wrist_aw and wrist_uw
t = -0.0825, df = 6, p-value = 0.9369
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -6.715630  6.277535
sample estimates:
mean of the differences
             -0.2190476
```

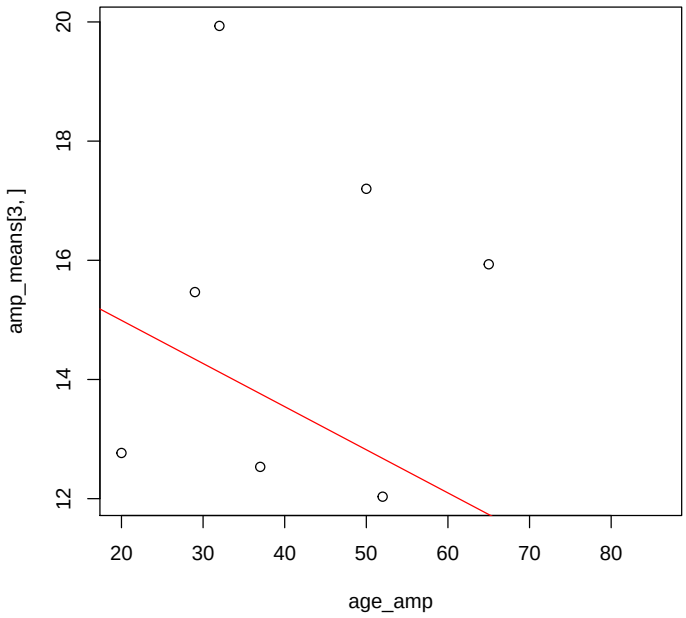
Between Amputees and Controls Unaffected Hand's

```
> 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:
 -1.2083776  0.4668845
sample estimates:
mean of x mean of y
 4.478361  4.849107
```

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
```

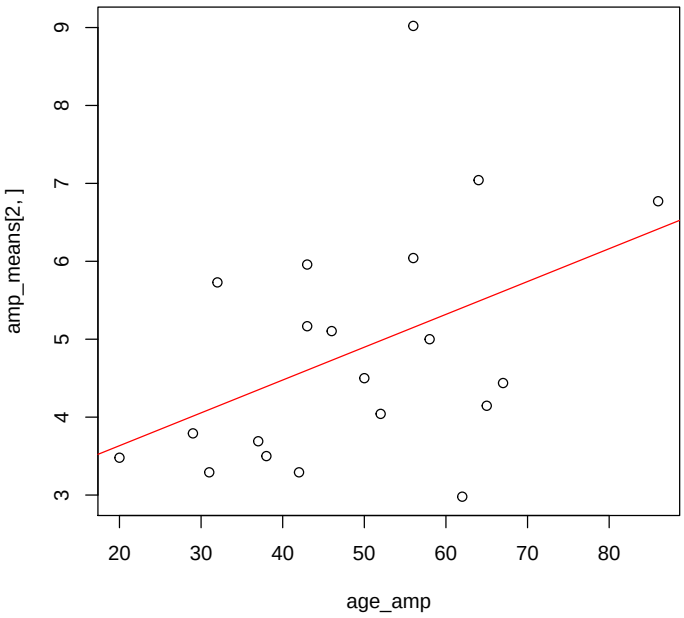
```
> plot(age_amp,amp_means[3,]) #plot of age and uw mean loc
> abline(lm(y_aw~x_aw_age), col="red")
```



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
```

```
> plot(age_amp,amp_means[2,]) #plot of age and uh mean loc
> abline(lm(y_uh~x_uh_age), col="red")
```



Correlation: Age and Amputees Affected Wrist

```
Pearsons product-moment correlation
data:  x_aw_age and y_aw
t = -0.6766, df = 9, p-value = 0.5157
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 -0.7242857  0.4376354
sample estimates:
       cor
-0.2199938
```

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