

Protective Hypothermia

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```
df <- select(df, -X)
#Removing rows without temperature
df <- filter(df, -is.na(df$Temp)==FALSE)

## Warning: package 'bindrcpp' was built under R version 3.4.2
#Eliminating pts with less than 2 temperature datapoints
df <- df[ave(seq_along(df$Name), df$Name, FUN=length) >= 2,]
df$Name <- as.character(df$Name)

dt <- data.frame(Patient=as.character(unique(df$Name)), Temp1 = as.numeric(NA), VIS1 = as.numeric(NA),

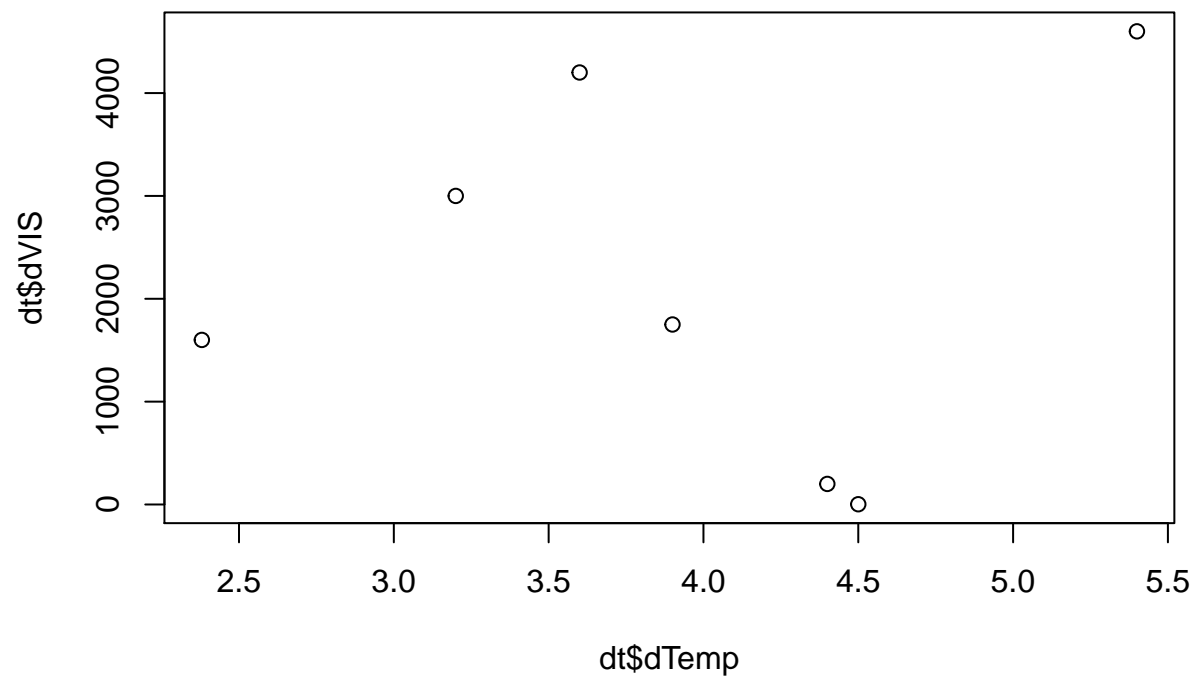
for(i in 1:nrow(dt)){
  name <- as.character(dt$Patient[i])
  temp <- df[df$Name == name,]
  temp <- temp[order(temp$Temp),]
  dt$Temp2[i] <- temp$Temp[1]
  dt$Temp1[i] <- temp$Temp[length(temp$Temp)]
  dt$VIS2[i] <- temp$VIS[1]
  dt$VIS1[i] <- temp$VIS[length(temp$VIS)]
}

dt$dTemp <- dt$Temp1 - dt$Temp2
dt$dVIS <- dt$VIS1 - dt$VIS2

print(dt)

##   Patient Temp1 VIS1 Temp2  VIS2 dTemp  dVIS
## 1   pt#1 35.30 3400  32.1  400.0  3.20 3000.0
## 2   pt#3 36.80 2200  32.9  450.0  3.90 1750.0
## 3   pt#8 36.40 5400  31.0  800.0  5.40 4600.0
## 4   pt#5 37.60  800  33.2  600.0  4.40  200.0
## 5   pt#4 35.58 4000  33.2 2400.0  2.38 1600.0
## 6   pt#7 37.50  5  33.0  2.5  4.50  2.5
## 7   pt#6 37.30 5400  33.7 1200.0  3.60 4200.0

plot(dt$dTemp, dt$dVIS)
```



```
cor(dt$dTemp, dt$dVIS)
```

```
## [1] 0.09693668
```