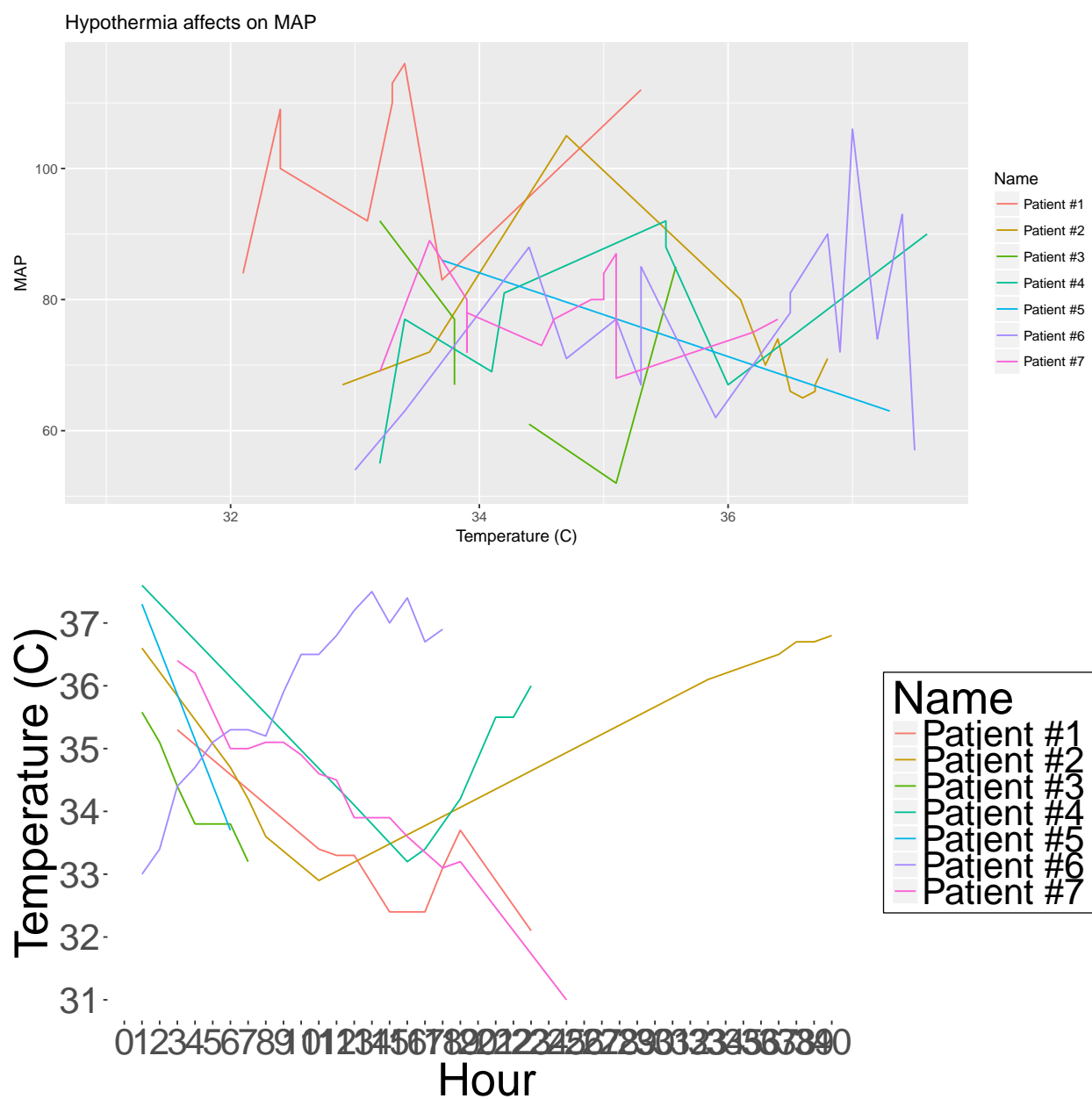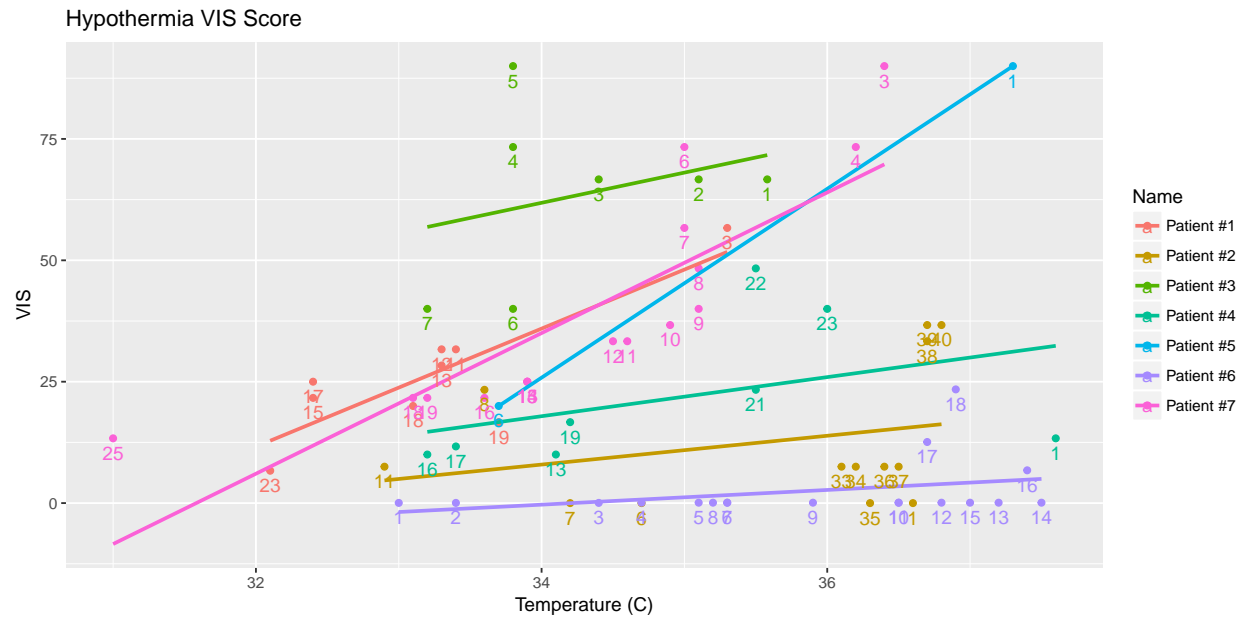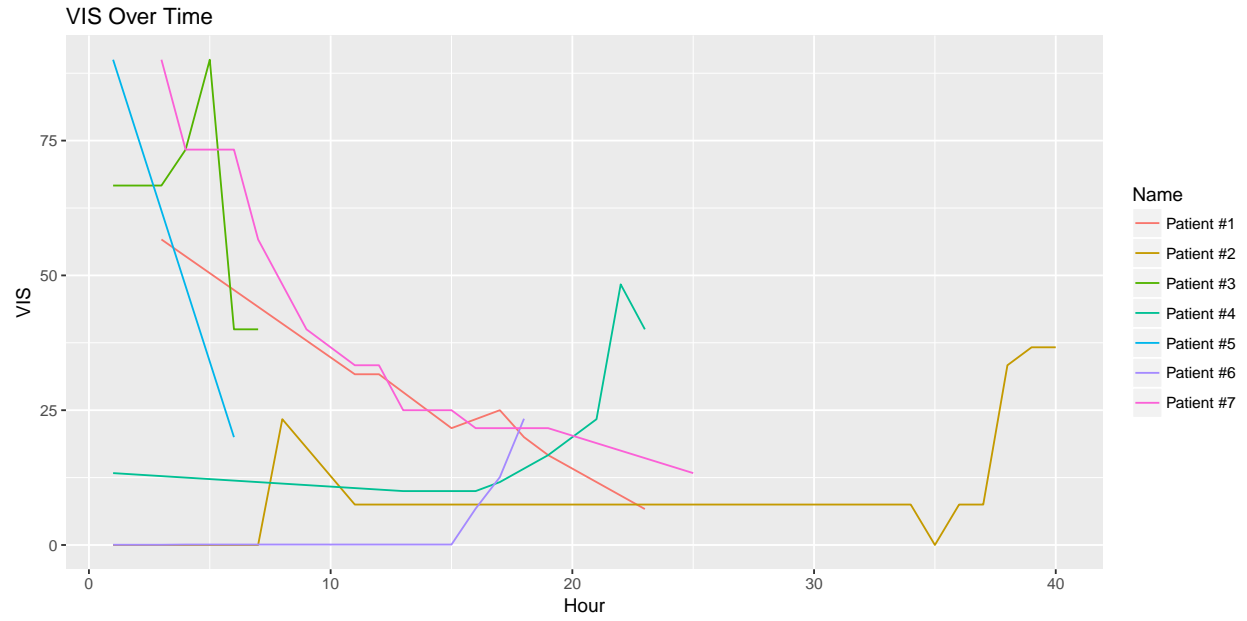# Protective Hypothermia Part 5
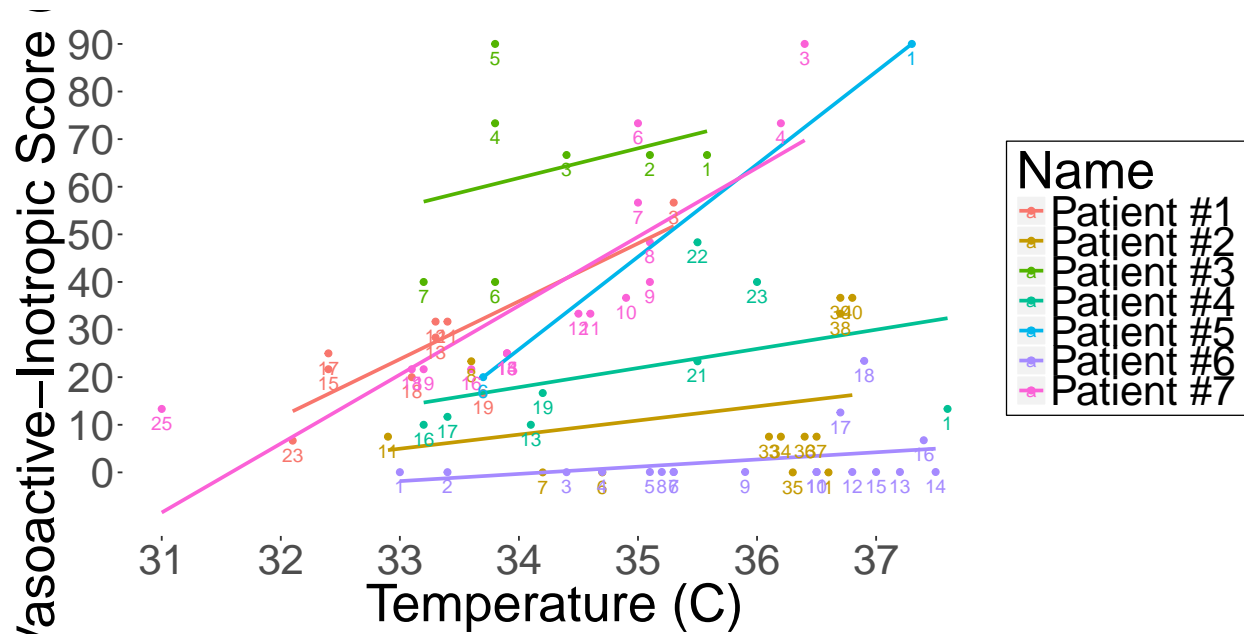
Anthony Morada and Garrison Davis

April 21, 2018

Preparing Figures for Presentation

VIS Over Time

Hypothermia VIS Score

```
## 
## Call:
## lm(formula = VIS ~ Temp, data = dt)
## 
## Residuals:
##     Min      1Q  Median      3Q     Max 
## -24.996 -24.530  -3.427  11.978  65.368 
## 
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 28.15198   67.72874   0.416    0.679
## Temp        -0.09438    1.93929  -0.049    0.961
## 
## Residual standard error: 25.15 on 71 degrees of freedom
## Multiple R-squared:  3.336e-05,  Adjusted R-squared:  -0.01405 
## F-statistic: 0.002368 on 1 and 71 DF,  p-value: 0.9613

## 
## Call:
## lm(formula = VIS ~ Temp + Name, data = dt)
## 
## Residuals:
##     Min      1Q  Median      3Q     Max 
## -27.000  -9.553  -2.584   7.575  35.644 
## 
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)   -206.433     44.218  -4.669 1.57e-05 ***
## Temp             7.011      1.324   5.297 1.50e-06 ***
## NamePatient #2 -30.752      6.861  -4.483 3.07e-05 ***
## NamePatient #3  29.716      7.157   4.152 9.78e-05 ***
## NamePatient #4 -16.840      7.147  -2.356   0.0215 *  
## NamePatient #5  12.549     11.312   1.109   0.2714    
## NamePatient #6 -42.272      6.653  -6.354 2.36e-08 ***
```

3

```
## NamePatient #7    5.595       5.996   0.933    0.3542
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 13.95 on 65 degrees of freedom
## Multiple R-squared:  0.7185, Adjusted R-squared:  0.6882
## F-statistic:  23.7 on 7 and 65 DF,  p-value: 1.193e-15

##       Hour            Temp             HR              B
## Min.   : 1.00   Min.   :31.00   Min.   : 59.0   Min.   : 77.0
## 1st Qu.: 6.00   1st Qu.:33.70   1st Qu.: 83.0   1st Qu.:105.0
## Median :12.00   Median :35.00   Median :101.0   Median :119.0
## Mean   :13.48   Mean   :34.89   Mean   :101.1   Mean   :119.7
## 3rd Qu.:18.00   3rd Qu.:36.30   3rd Qu.:119.0   3rd Qu.:134.0
## Max.   :40.00   Max.   :37.60   Max.   :154.0   Max.   :188.0
##
##       P              Map          Net.IV.Fluids.hr   LEVO.Dose
## Min.   : 30.00   Min.   : 52.00   Min.   : 1128   Min.   : 0.000
## 1st Qu.: 54.00   1st Qu.: 69.00   1st Qu.:20085   1st Qu.: 0.000
## Median : 60.00   Median : 77.00   Median :22677   Median : 0.000
## Mean   : 64.21   Mean   : 79.34   Mean   :21167   Mean   : 7.993
## 3rd Qu.: 72.00   3rd Qu.: 87.50   3rd Qu.:26744   3rd Qu.:11.000
## Max.   :129.00   Max.   :116.00   Max.   :32101   Max.   :50.000
##                  NA's   :2        NA's   :46
##    VASO.Dose         EPI.Dose       IV.Drip.Rate       Dobutamine
## Min.   :0.00000   Min.   : 0.00   Min.   :  24.0   Min.   :0.00
## 1st Qu.:0.00000   1st Qu.: 0.00   1st Qu.: 152.5   1st Qu.:0.00
## Median :0.00000   Median : 0.00   Median : 322.0   Median :0.00
## Mean   :0.01671   Mean   : 5.24   Mean   : 458.1   Mean   :1.13
## 3rd Qu.:0.04000   3rd Qu.:13.00   3rd Qu.: 472.8   3rd Qu.:0.00
## Max.   :0.04000   Max.   :20.00   Max.   :2303.0   Max.   :5.00
##                                   NA's   :51
##     Name              VIS
## Length:73         Min.   : 0.00000
## Class :character  1st Qu.: 0.08333
## Mode  :character  Median :21.66667
##                   Mean   :24.85902
##                   3rd Qu.:36.66667
##                   Max.   :90.00000
##
```

Table Information

n = 7
Patient #1, Patient #2, Patient #7, Patient #4, Patient #3, Patient #6, Patient #5 = 9, 13, 7, 8, 2, 18, 16