

# Protective Hypothermia

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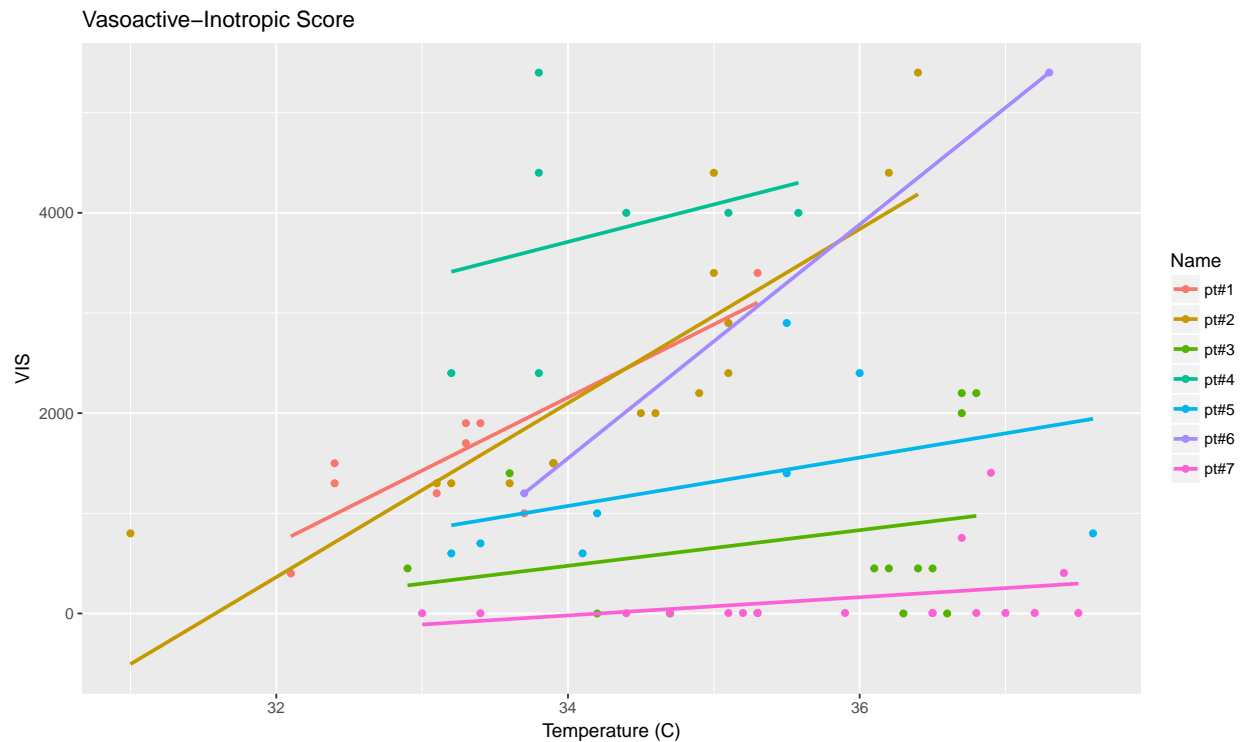
*February 15, 2018*

## Original Data

First 6 lines of deidentified data:

##	Temp	HR	B	P	Map	Net.IV.Fluids.hr	LEVO.Dose	VASO.Dose	EPI.Dose
## 1	35.3	59	139	91	112	24689	30	0.04	0
## 2	33.4	73	145	97	116	28798	15	0.04	0
## 3	33.3	73	135	92	110	29046	15	0.04	0
## 4	33.3	70	138	90	113	29380	13	0.04	0
## 5	32.4	70	132	94	109	31083	9	0.04	0
## 6	32.4	76	124	81	100	30455	11	0.04	0
##	IV.Drip.Rate	Dobutamine	Name	VIS					
## 1	310.0	0	pt#1	3400					
## 2	99.5	0	pt#1	1900					
## 3	248.0	0	pt#1	1900					
## 4	334.0	0	pt#1	1700					
## 5	NA	0	pt#1	1300					
## 6	141.0	0	pt#1	1500					

Data contains 73 time points with Temperature and associated VIS score. There are 7 unique patients included in this dataset. The number of data points for patients pt#1, pt#2, pt#3, pt#4, pt#5, pt#6, pt#7 are 9, 16, 13, 7, 8, 2, 18 respectively.



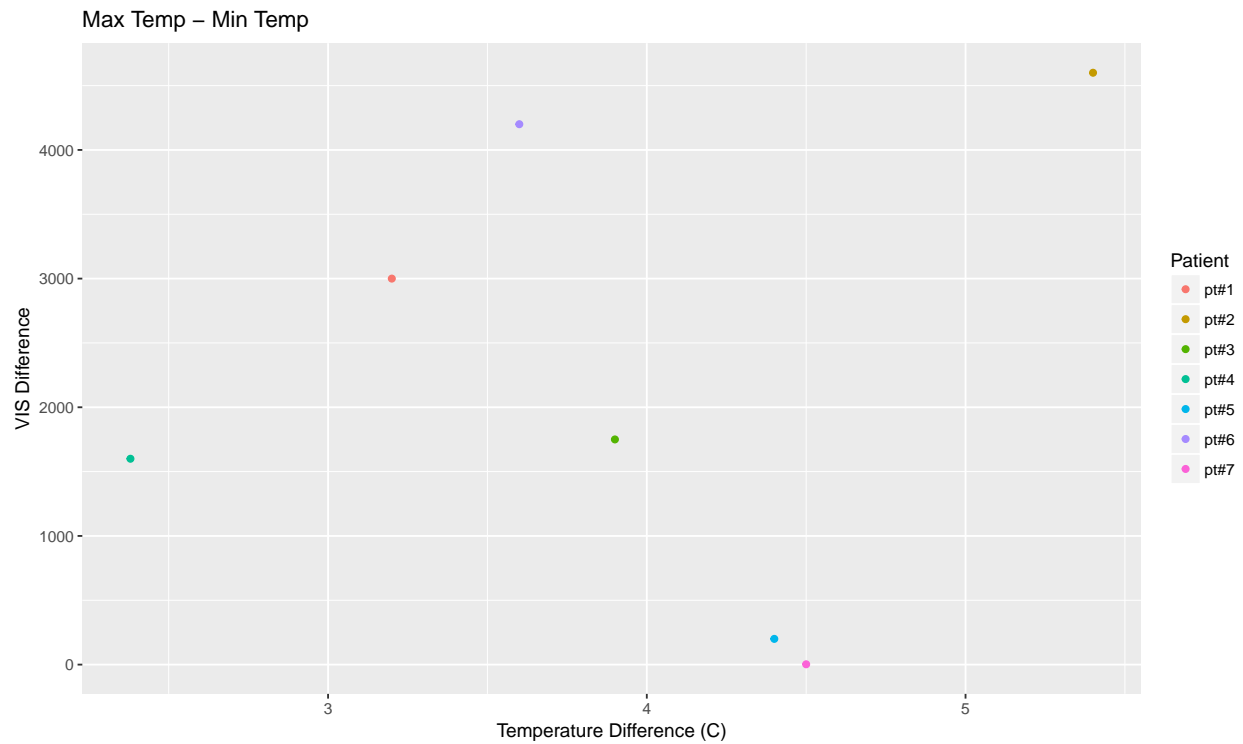
## dTemp and dVIS Analysis

Table generated from taking data from the highest and lower temperature with their associated VIS score.

$dTemp = Temp1(Temp\ max) - Temp2(Temp\ min)$

$dVIS = VIS1(VIS\ at\ Temp\ max) - VIS2(VIS\ at\ Temp\ min)$

##	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#2	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



The correlation coefficient of Temperature Difference and VIs difference is 0.0969367.