R Programming Project

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#install.packages("tidyverse")  
library(readxl)

## Warning: package 'readxl' was built under R version 4.0.5

#library(dplyr)  
library(ggplot2)

## Warning: package 'ggplot2' was built under R version 4.0.5

filepth <- "D:/Rprogrammingproject/mouse\_brain.xlsx"  
dat <- read\_xlsx(filepth)

## New names:  
## \* `` -> ...1  
## \* `` -> ...10  
## \* `` -> ...11  
## \* `` -> ...12  
## \* `` -> ...13  
## \* ...

options(max.print=1000000)  
  
S\_1injuredbrainchars <- dat$...10  
numberobj1 <- S\_1injuredbrainchars[2:301]  
s\_1injuredbrainnumbs <- as.numeric(numberobj1)  
  
  
S\_2injuredbrainchars <- dat$...11  
numberobj2 <- S\_2injuredbrainchars[2:301]  
S\_2injuredbrainnumbs <- as.numeric(numberobj2)  
  
s\_3injuredbrainchars <- dat$...12  
numberobj3 <- s\_3injuredbrainchars[2:301]  
s\_3injuredbrainnumbs <- as.numeric(numberobj3)  
  
s\_4injuredbrainchars <- dat$...13  
numberobj4 <- s\_4injuredbrainchars[2:301]  
s\_4injuredbrainnumbs <- as.numeric(numberobj4)  
  
s\_5normalbrainchars <- dat$...14  
numberobj5 <- s\_5normalbrainchars[2:301]  
s\_5normalbrainnumbs <- as.numeric(numberobj5)  
  
s\_6normalbrainchars <- dat$...15  
numberobj6 <- s\_6normalbrainchars[2:301]  
s\_6normalbrainnumbs <- as.numeric(numberobj6)  
  
s\_7normalbrainchars <- dat$...16  
numberobj7 <- s\_7normalbrainchars[2:301]  
s\_7normalbrainnumbs <- as.numeric(numberobj7)

# 1) Compute the mean value of protein expression for the mice with

# injured brain and normal control mice, respectively, for each protein.

meanofrow\_ingroup1 <- function(){  
 m1 <- 300  
 for(x1 in 1:m1){  
 rowmean\_group1 <- c(s\_1injuredbrainnumbs[x1],  
S\_2injuredbrainnumbs[x1],s\_3injuredbrainnumbs[x1],s\_4injuredbrainnumbs[x1])  
 row\_added1 <- sum(rowmean\_group1)  
 average1 <- row\_added1/4  
 print(average1)  
 }  
}  
meanofrow\_ingroup1()

## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 25.31412  
## [1] 9.232765  
## [1] 0.9656621  
## [1] 1.924195  
## [1] 9.636211  
## [1] 13.40948  
## [1] 1.530245  
## [1] 19.84836  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 8.211025  
## [1] 25.85146  
## [1] 19.53573  
## [1] 7.524222  
## [1] 3.929463  
## [1] 22.00059  
## [1] 1.490891  
## [1] 2.190912  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.2787095  
## [1] 28.83038  
## [1] 3.376807  
## [1] 5.558158  
## [1] 0.5085043  
## [1] 13.98942  
## [1] 0.2249971  
## [1] 1.936122  
## [1] 0.5204311  
## [1] 2.877864  
## [1] 0.4941456  
## [1] 3.618529  
## [1] 1.921763  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.2512827  
## [1] 52.4026  
## [1] 40.85173  
## [1] 5.262724  
## [1] 2.112204  
## [1] 11.84499  
## [1] 22.82095  
## [1] 0.7895796  
## [1] 1.464605  
## [1] 2.163485  
## [1] 3.228152  
## [1] 2.39328  
## [1] 5.986748  
## [1] 19.08329  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.4810775  
## [1] 0.009561011  
## [1] 8.943336  
## [1] 1.506391  
## [1] 5.292732  
## [1] 34.4704  
## [1] 2.218338  
## [1] 11.26678  
## [1] 0.009561011  
## [1] 0.750226  
## [1] 0.9800208  
## [1] 0.5085043  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 3.361308  
## [1] 157.8613  
## [1] 20.41935  
## [1] 3.376807  
## [1] 0.2787095  
## [1] 0.750226  
## [1] 0.2249971  
## [1] 6.258328  
## [1] 0.5085043  
## [1] 0.9537352  
## [1] 15.65659  
## [1] 0.7776528  
## [1] 7.790384  
## [1] 12.0252  
## [1] 36.18785  
## [1] 3.351813  
## [1] 3.970107  
## [1] 0.009561011  
## [1] 37.41252  
## [1] 14.36128  
## [1] 1.425252  
## [1] 2.353926  
## [1] 0.9930889  
## [1] 4.141326  
## [1] 10.37632  
## [1] 16.06334  
## [1] 1.963549  
## [1] 6.579898  
## [1] 29.83421  
## [1] 7.376708  
## [1] 0.009561011  
## [1] 14.01342  
## [1] 14.98616  
## [1] 9.413712  
## [1] 4.680764  
## [1] 2.71614  
## [1] 1.249169  
## [1] 117.2324  
## [1] 2.850437  
## [1] 4.373553  
## [1] 2.125272  
## [1] 2.365853  
## [1] 7.968162  
## [1] 5.117791  
## [1] 2.852869  
## [1] 0.009561011  
## [1] 0.009561011  
## [1] 0.7382991  
## [1] 20.20328  
## [1] 466.5035  
## [1] 1.42282  
## [1] 10.19373  
## [1] 109.0281  
## [1] 0.2393558  
## [1] 3.848324  
## [1] 4.14619  
## [1] 0.750226  
## [1] 1.94919  
## [1] 3.592244  
## [1] 0.2787095  
## [1] 40.54651  
## [1] 9.762303  
## [1] 0.5085043  
## [1] 0.547858  
## [1] 3.456805  
## [1] 7.027561  
## [1] 21.03411  
## [1] 0.7776528  
## [1] 1.288523  
## [1] 12.27012  
## [1] 81.29159  
## [1] 1.249169  
## [1] 0.2787095  
## [1] 0.2393558  
## [1] 5.479451  
## [1] 23.16536  
## [1] 7.066915  
## [1] 17.96488  
## [1] 16.44944  
## [1] 1.234811  
## [1] 913.5699  
## [1] 12.57616  
## [1] 0.9656621  
## [1] 1.476532  
## [1] 5.369008  
## [1] 4.841347  
## [1] 0.2393558  
## [1] 33.60674  
## [1] 10.15772  
## [1] 0.547858  
## [1] 24.20992  
## [1] 0.4941456  
## [1] 10.13888  
## [1] 18.74578  
## [1] 0.2393558  
## [1] 16.65421  
## [1] 1.680041  
## [1] 2.366994  
## [1] 0.7895796  
## [1] 1.385898  
## [1] 0.9406671  
## [1] 2.840942  
## [1] 0.2787095  
## [1] 2.39328  
## [1] 2.931577  
## [1] 2.70064  
## [1] 9.743636  
## [1] 1.207384  
## [1] 2.27091  
## [1] 5.260442  
## [1] 11.22983  
## [1] 6.283323  
## [1] 51.03001  
## [1] 0.2393558  
## [1] 23.08392  
## [1] 3.794612  
## [1] 18.06519  
## [1] 12.6573  
## [1] 1.975475  
## [1] 17.57339  
## [1] 4.038616  
## [1] 2.838511  
## [1] 18.58305  
## [1] 4.519041  
## [1] 1.652615  
## [1] 0.2512827  
## [1] 9.247124  
## [1] 50.39088  
## [1] 7.878083  
## [1] 0.750226  
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## [1] 0.750226  
## [1] 0.2787095  
## [1] 0.5085043  
## [1] 66.08641  
## [1] 2.39328  
## [1] 0.7358673  
## [1] 4.062619  
## [1] 4.357904  
## [1] 3.200725  
## [1] 2.688714  
## [1] 6.730837  
## [1] 0.6965136  
## [1] 0.6965136  
## [1] 0.6965136  
## [1] 0.6965136  
## [1] 0.6965136  
## [1] 2.850437  
## [1] 0.2512827  
## [1] 1.706327  
## [1] 26.02964  
## [1] 29.79843  
## [1] 45.66764  
## [1] 0.5204311  
## [1] 0.7239404  
## [1] 0.7239404  
## [1] 0.7239404  
## [1] 0.547858  
## [1] 5.367717  
## [1] 0.2787095  
## [1] 8.243348  
## [1] 10.30045  
## [1] 16.60551  
## [1] 0.9656621  
## [1] 2.729209  
## [1] 0.7227991  
## [1] 6.418324  
## [1] 7.289241  
## [1] 1.733754  
## [1] 1.261096  
## [1] 3.682878  
## [1] 0.2787095  
## [1] 0.009561011  
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## [1] 0.009561011  
## [1] 0.009561011

meanofrow\_ingroup2 <- function(){  
 m2 <- 300  
 for(x2 in 1:m2){  
 rowmean\_group2 <- c(s\_5normalbrainnumbs[x2],s\_6normalbrainnumbs[x2],  
 s\_7normalbrainnumbs[x2])  
 row\_added2 <- sum(rowmean\_group2)  
 average2 <- row\_added2/3  
 print(average2)  
 }  
}  
meanofrow\_ingroup2()

## [1] 2.16585  
## [1] 2.16585  
## [1] 1.088313  
## [1] 1.088313  
## [1] 1.088313  
## [1] 1.088313  
## [1] 1.088313  
## [1] 1.088313  
## [1] 1.088313  
## [1] 19.08863  
## [1] 26.97972  
## [1] 0.01077537  
## [1] 14.71705  
## [1] 27.26743  
## [1] 0.359921  
## [1] 11.48362  
## [1] 60.35369  
## [1] 2.514585  
## [1] 2.514585  
## [1] 1.817115  
## [1] 1.817115  
## [1] 14.77848  
## [1] 0.01077537  
## [1] 38.95591  
## [1] 25.61488  
## [1] 12.24375  
## [1] 44.88727  
## [1] 7.523025  
## [1] 5.049727  
## [1] 1.467969  
## [1] 1.467969  
## [1] 1.467969  
## [1] 1.467969  
## [1] 1.786193  
## [1] 1.786193  
## [1] 3.274309  
## [1] 1.05698  
## [1] 10.87809  
## [1] 14.33657  
## [1] 4.002701  
## [1] 26.22041  
## [1] 3.592122  
## [1] 0.01077537  
## [1] 4.002701  
## [1] 1.816704  
## [1] 3.243387  
## [1] 10.37557  
## [1] 4.67007  
## [1] 1.437458  
## [1] 1.437458  
## [1] 1.437458  
## [1] 2.545507  
## [1] 97.68948  
## [1] 80.32396  
## [1] 13.35139  
## [1] 11.25857  
## [1] 24.38397  
## [1] 50.18343  
## [1] 4.700992  
## [1] 7.491693  
## [1] 0.7086559  
## [1] 10.11878  
## [1] 5.747607  
## [1] 1.786193  
## [1] 44.73554  
## [1] 1.437048  
## [1] 1.437048  
## [1] 1.437048  
## [1] 3.274309  
## [1] 2.135339  
## [1] 29.26913  
## [1] 7.523025  
## [1] 18.42209  
## [1] 42.00463  
## [1] 8.570052  
## [1] 0.7391671  
## [1] 2.484074  
## [1] 2.894242  
## [1] 4.700171  
## [1] 3.212876  
## [1] 2.134928  
## [1] 2.134928  
## [1] 9.421309  
## [1] 44.30017  
## [1] 0.01077537  
## [1] 6.824734  
## [1] 4.608637  
## [1] 4.003111  
## [1] 3.242977  
## [1] 14.71746  
## [1] 2.514996  
## [1] 5.460305  
## [1] 0.01077537  
## [1] 4.987883  
## [1] 0.01077537  
## [1] 30.18141  
## [1] 76.16349  
## [1] 9.01073  
## [1] 13.00307  
## [1] 2.833219  
## [1] 6.382823  
## [1] 32.55294  
## [1] 5.398051  
## [1] 0.01077537  
## [1] 5.337029  
## [1] 1.816704  
## [1] 2.86332  
## [1] 17.31322  
## [1] 8.538719  
## [1] 12.91071  
## [1] 0.3595103  
## [1] 17.25137  
## [1] 2.576428  
## [1] 29.74114  
## [1] 25.96444  
## [1] 24.29161  
## [1] 11.54546  
## [1] 8.344182  
## [1] 5.050138  
## [1] 57.30516  
## [1] 7.87176  
## [1] 14.59378  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 15.44462  
## [1] 15.15855  
## [1] 7.584458  
## [1] 4.607816  
## [1] 1.847626  
## [1] 3.941678  
## [1] 0.01077537  
## [1] 72.78528  
## [1] 5.716275  
## [1] 20.89497  
## [1] 197.5595  
## [1] 1.817115  
## [1] 3.212876  
## [1] 0.01077537  
## [1] 2.16585  
## [1] 5.398051  
## [1] 2.863731  
## [1] 1.786193  
## [1] 1.057391  
## [1] 24.62847  
## [1] 3.591712  
## [1] 3.243798  
## [1] 11.04253  
## [1] 17.1281  
## [1] 44.82625  
## [1] 5.685353  
## [1] 4.700992  
## [1] 0.7086559  
## [1] 141.4241  
## [1] 3.941268  
## [1] 2.166261  
## [1] 2.196361  
## [1] 14.90094  
## [1] 0.3595103  
## [1] 13.70013  
## [1] 51.49892  
## [1] 4.956962  
## [1] 4.352257  
## [1] 180.9162  
## [1] 33.45559  
## [1] 0.3595103  
## [1] 9.422952  
## [1] 10.78574  
## [1] 16.02169  
## [1] 2.166261  
## [1] 71.57956  
## [1] 6.065831  
## [1] 2.863731  
## [1] 46.75464  
## [1] 2.16585  
## [1] 21.81831  
## [1] 0.3595103  
## [1] 2.135339  
## [1] 21.21238  
## [1] 4.351436  
## [1] 1.467969  
## [1] 3.910757  
## [1] 5.747607  
## [1] 5.685764  
## [1] 0.01077537  
## [1] 2.165439  
## [1] 1.46838  
## [1] 9.862399  
## [1] 0.01077537  
## [1] 20.01238  
## [1] 0.3904321  
## [1] 8.75435  
## [1] 12.27467  
## [1] 24.73188  
## [1] 14.62429  
## [1] 86.91123  
## [1] 2.134928  
## [1] 45.22618  
## [1] 12.08914  
## [1] 36.46274  
## [1] 26.79542  
## [1] 4.351846  
## [1] 30.46994  
## [1] 0.3595103  
## [1] 1.847626  
## [1] 35.44623  
## [1] 12.3056  
## [1] 1.088313  
## [1] 2.576428  
## [1] 15.85561  
## [1] 94.8142  
## [1] 19.02679  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 0.01077537  
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## [1] 0.01077537  
## [1] 1.467969  
## [1] 4.926861  
## [1] 66.8613  
## [1] 1.149746  
## [1] 2.16585  
## [1] 2.545096  
## [1] 9.677689  
## [1] 2.545507  
## [1] 1.118824  
## [1] 21.31456  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 8.53954  
## [1] 4.064134  
## [1] 4.669249  
## [1] 45.96317  
## [1] 72.91697  
## [1] 30.31533  
## [1] 2.484074  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 2.864141  
## [1] 10.81748  
## [1] 1.437458  
## [1] 0.01077537  
## [1] 21.15259  
## [1] 38.06472  
## [1] 1.088313  
## [1] 1.118824  
## [1] 7.738246  
## [1] 0.01077537  
## [1] 0.01077537  
## [1] 5.11116  
## [1] 5.779351  
## [1] 9.01073  
## [1] 2.955675  
## [1] 1.46838  
## [1] 1.46838  
## [1] 1.46838  
## [1] 1.406537  
## [1] 0.7395777  
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## [1] 0.7395777

# 2) Compute the standard deviation of protein expression for the mice

# with injured brain and normal control mice, respectively, for each

# protein

sdofrow\_ingroup1 <- function(){  
 m1 <- 300  
 for(x1 in 1:m1){  
 rowmean\_group1 <- c(s\_1injuredbrainnumbs[x1],  
S\_2injuredbrainnumbs[x1],s\_3injuredbrainnumbs[x1],s\_4injuredbrainnumbs[x1])  
 row\_added1 <- sum(rowmean\_group1)  
 average1 <- row\_added1/4  
 rowdiff\_group1 <- c(s\_1injuredbrainnumbs[x1]-average1,  
S\_2injuredbrainnumbs[x1]-average1,s\_3injuredbrainnumbs[x1]-average1,  
s\_4injuredbrainnumbs[x1]-average1)  
 squareddiff1 <- rowdiff\_group1^2  
 sumofsquareddiff1 <- sum(squareddiff1)  
 standarddev1 <- sumofsquareddiff1/3  
 print(standarddev1)  
 }  
}  
sdofrow\_ingroup1()

## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 34.2081  
## [1] 8.320083  
## [1] 0.008467253  
## [1] 1.723235  
## [1] 3.757462  
## [1] 12.43002  
## [1] 1.92449  
## [1] 91.95477  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 3.838292  
## [1] 34.65823  
## [1] 21.4697  
## [1] 10.98987  
## [1] 4.259827  
## [1] 35.259  
## [1] 0.9940523  
## [1] 0.4971254  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 0.2906293  
## [1] 35.87754  
## [1] 0.6034651  
## [1] 2.001947  
## [1] 0.3366952  
## [1] 11.48585  
## [1] 0.1851096  
## [1] 0.6259048  
## [1] 0.3509255  
## [1] 0.07520259  
## [1] 0.3211132  
## [1] 0.5364945  
## [1] 0.03353451  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 0.2337878  
## [1] 214.0005  
## [1] 118.5382  
## [1] 1.151115  
## [1] 1.233269  
## [1] 9.067328  
## [1] 61.79642  
## [1] 1.04759  
## [1] 0.4090176  
## [1] 0.2812261  
## [1] 4.871086  
## [1] 0.2988484  
## [1] 3.59252  
## [1] 35.16046  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 0.2966605  
## [1] 8.300415e-07  
## [1] 16.73742  
## [1] 3.026418  
## [1] 9.387987  
## [1] 56.14227  
## [1] 2.106968  
## [1] 7.288839  
## [1] 8.300415e-07  
## [1] 0.2488677  
## [1] 0.5692552  
## [1] 0.3366952  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 1.051925  
## [1] 710.4514  
## [1] 95.9055  
## [1] 0.6034651  
## [1] 0.2906293  
## [1] 0.2488677  
## [1] 0.1851096  
## [1] 3.776405  
## [1] 0.3366952  
## [1] 0.5716578  
## [1] 43.02188  
## [1] 1.04192  
## [1] 11.9891  
## [1] 48.36141  
## [1] 138.5815  
## [1] 2.516765  
## [1] 8.122851  
## [1] 8.300415e-07  
## [1] 129.2881  
## [1] 26.77344  
## [1] 0.8076549  
## [1] 1.358204  
## [1] 0.7857633  
## [1] 2.880166  
## [1] 6.710491  
## [1] 6.282097  
## [1] 1.48168  
## [1] 5.33615  
## [1] 160.9666  
## [1] 14.6978  
## [1] 8.300415e-07  
## [1] 18.57094  
## [1] 17.43475  
## [1] 12.88942  
## [1] 7.11852  
## [1] 2.003457  
## [1] 0.9360592  
## [1] 219.8087  
## [1] 0.5327922  
## [1] 3.187857  
## [1] 0.6506932  
## [1] 1.493699  
## [1] 3.809916  
## [1] 10.74914  
## [1] 1.601429  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 0.8052063  
## [1] 43.08408  
## [1] 13402.47  
## [1] 0.2412396  
## [1] 16.36135  
## [1] 1265.946  
## [1] 0.2109972  
## [1] 0.7890065  
## [1] 5.879051  
## [1] 0.2488677  
## [1] 0.8903595  
## [1] 0.3393103  
## [1] 0.2906293  
## [1] 318.8315  
## [1] 6.653498  
## [1] 0.3366952  
## [1] 1.160785  
## [1] 3.556874  
## [1] 5.847  
## [1] 106.1704  
## [1] 1.04192  
## [1] 1.891864  
## [1] 25.54481  
## [1] 381.6645  
## [1] 0.9360592  
## [1] 0.2906293  
## [1] 0.2109972  
## [1] 1.769288  
## [1] 145.9785  
## [1] 7.662501  
## [1] 104.2848  
## [1] 13.71293  
## [1] 0.3855769  
## [1] 54951.79  
## [1] 14.17926  
## [1] 0.008467253  
## [1] 0.4528255  
## [1] 4.221422  
## [1] 2.724137  
## [1] 0.2109972  
## [1] 90.2948  
## [1] 12.94883  
## [1] 1.160785  
## [1] 111.096  
## [1] 0.3211132  
## [1] 11.76551  
## [1] 98.0037  
## [1] 0.2109972  
## [1] 14.97897  
## [1] 0.2532778  
## [1] 0.143958  
## [1] 1.04759  
## [1] 2.538125  
## [1] 1.689742  
## [1] 3.23119  
## [1] 0.2906293  
## [1] 0.2988484  
## [1] 1.128715  
## [1] 2.98787  
## [1] 11.61095  
## [1] 0.2492065  
## [1] 3.297707  
## [1] 3.462912  
## [1] 26.33906  
## [1] 2.724582  
## [1] 89.90355  
## [1] 0.2109972  
## [1] 38.60778  
## [1] 0.3618714  
## [1] 19.8388  
## [1] 26.4783  
## [1] 0.9463582  
## [1] 18.11393  
## [1] 4.27804  
## [1] 0.412709  
## [1] 28.43169  
## [1] 12.69768  
## [1] 0.1494708  
## [1] 0.2337878  
## [1] 10.09999  
## [1] 162.8682  
## [1] 25.85342  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2488677  
## [1] 0.2906293  
## [1] 0.3366952  
## [1] 42.71865  
## [1] 0.2988484  
## [1] 0.2425413  
## [1] 2.061384  
## [1] 2.408961  
## [1] 2.412939  
## [1] 1.676516  
## [1] 5.69061  
## [1] 0.2108848  
## [1] 0.2108848  
## [1] 0.2108848  
## [1] 0.2108848  
## [1] 0.2108848  
## [1] 0.5327922  
## [1] 0.2337878  
## [1] 0.3281425  
## [1] 36.60569  
## [1] 261.7549  
## [1] 43.05675  
## [1] 0.3509255  
## [1] 0.2351629  
## [1] 0.2351629  
## [1] 0.2351629  
## [1] 1.160785  
## [1] 4.935393  
## [1] 0.2906293  
## [1] 22.52523  
## [1] 4.883954  
## [1] 32.36494  
## [1] 0.008467253  
## [1] 3.162889  
## [1] 0.8497587  
## [1] 19.15597  
## [1] 28.81796  
## [1] 1.200724  
## [1] 0.9867189  
## [1] 5.148873  
## [1] 0.2906293  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
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## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07  
## [1] 8.300415e-07

sdofrow\_ingroup2 <- function(){  
 m2 <- 300  
 for(x2 in 1:m2){  
 rowmean\_group2 <- c(s\_5normalbrainnumbs[x2],s\_6normalbrainnumbs[x2],  
 s\_7normalbrainnumbs[x2])  
 row\_added2 <- sum(rowmean\_group2)  
 average2 <- row\_added2/3  
 rowdiff\_group2 <- c(s\_5normalbrainnumbs[x2]-average2,  
 s\_6normalbrainnumbs[x2]-average2,  
 s\_7normalbrainnumbs[x2]-average2)  
   
 squareddiff2 <- rowdiff\_group2^2  
 sumofsquareddiff2 <- sum(squareddiff2)  
 standarddev2 <- sumofsquareddiff2/2  
 print(standarddev2)  
 }  
}  
sdofrow\_ingroup2()

## [1] 0.01143703  
## [1] 0.01143703  
## [1] 0.00288778  
## [1] 0.00288778  
## [1] 0.00288778  
## [1] 0.00288778  
## [1] 0.00288778  
## [1] 0.00288778  
## [1] 0.00288778  
## [1] 6.045336  
## [1] 5.504987  
## [1] 2.830879e-07  
## [1] 1.121619  
## [1] 0.004966199  
## [1] 0.365393  
## [1] 1.086789  
## [1] 13.40437  
## [1] 0.3103972  
## [1] 0.3103972  
## [1] 0.4421733  
## [1] 0.4421733  
## [1] 5.140635  
## [1] 2.830879e-07  
## [1] 45.38079  
## [1] 19.88206  
## [1] 2.655097  
## [1] 3.531797  
## [1] 0.6233967  
## [1] 0.6001319  
## [1] 0.5059754  
## [1] 0.5059754  
## [1] 0.5059754  
## [1] 0.5059754  
## [1] 0.3032146  
## [1] 0.3032146  
## [1] 1.529391  
## [1] 3.282651  
## [1] 11.91067  
## [1] 1.402112  
## [1] 2.17654  
## [1] 1.209743  
## [1] 0.2918281  
## [1] 2.830879e-07  
## [1] 2.17654  
## [1] 0.440517  
## [1] 0.02564805  
## [1] 1.443638  
## [1] 0.2848001  
## [1] 0.3367521  
## [1] 0.3367521  
## [1] 0.3367521  
## [1] 0.5844949  
## [1] 57.64845  
## [1] 1.453765  
## [1] 5.358378  
## [1] 19.03835  
## [1] 0.4440518  
## [1] 1.379517  
## [1] 1.858905  
## [1] 3.476409  
## [1] 0.3646355  
## [1] 4.665457  
## [1] 0.2788062  
## [1] 0.3032146  
## [1] 24.01125  
## [1] 0.3346281  
## [1] 0.3346281  
## [1] 0.3346281  
## [1] 1.529391  
## [1] 1.003217  
## [1] 21.6756  
## [1] 0.6233967  
## [1] 21.21326  
## [1] 3.786134  
## [1] 3.338791  
## [1] 0.4004394  
## [1] 1.334098  
## [1] 0.4862564  
## [1] 1.849801  
## [1] 0.9159294  
## [1] 0.9993735  
## [1] 0.9993735  
## [1] 7.573786  
## [1] 375.6551  
## [1] 2.830879e-07  
## [1] 0.2700914  
## [1] 4.311912  
## [1] 3.275206  
## [1] 1.117714  
## [1] 4.427126  
## [1] 0.313773  
## [1] 5.878472  
## [1] 2.830879e-07  
## [1] 2.094642  
## [1] 2.830879e-07  
## [1] 3.281767  
## [1] 95.07485  
## [1] 1.174509  
## [1] 7.654248  
## [1] 2.400239  
## [1] 13.37168  
## [1] 76.05974  
## [1] 1.160618  
## [1] 2.830879e-07  
## [1] 2.732448  
## [1] 0.440517  
## [1] 1.339054  
## [1] 8.793536  
## [1] 6.285062  
## [1] 0.3851204  
## [1] 0.3645207  
## [1] 0.7256112  
## [1] 3.247522  
## [1] 2.315768  
## [1] 19.78323  
## [1] 10.70949  
## [1] 3.414129  
## [1] 9.486756  
## [1] 2.797212  
## [1] 644.7184  
## [1] 0.7903772  
## [1] 14.07252  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.634515  
## [1] 11.51495  
## [1] 2.053854  
## [1] 6.486512  
## [1] 1.873898  
## [1] 1.298679  
## [1] 2.830879e-07  
## [1] 416.6171  
## [1] 2.078256  
## [1] 9.409026  
## [1] 4.142735  
## [1] 0.4421733  
## [1] 0.9159294  
## [1] 2.830879e-07  
## [1] 0.01143703  
## [1] 1.160618  
## [1] 0.2474554  
## [1] 0.3032146  
## [1] 1.093575  
## [1] 59.87089  
## [1] 2.478869  
## [1] 1.12525  
## [1] 8.095519  
## [1] 9.994762  
## [1] 0.1177356  
## [1] 6.273766  
## [1] 1.858905  
## [1] 0.3646355  
## [1] 18.40536  
## [1] 0.1973579  
## [1] 1.109787  
## [1] 1.411241  
## [1] 34.18087  
## [1] 0.3645207  
## [1] 4.900418  
## [1] 387.6891  
## [1] 6.425291  
## [1] 3.847374  
## [1] 6561.103  
## [1] 70.45156  
## [1] 0.3645207  
## [1] 29.52152  
## [1] 1.366958  
## [1] 29.51556  
## [1] 1.109787  
## [1] 26.95486  
## [1] 1.962436  
## [1] 0.2474554  
## [1] 17.64194  
## [1] 0.01143703  
## [1] 4.48161  
## [1] 0.3645207  
## [1] 1.003217  
## [1] 2.130075  
## [1] 1.648322  
## [1] 0.5059754  
## [1] 2.248643  
## [1] 0.2788062  
## [1] 4.091884  
## [1] 2.830879e-07  
## [1] 1.104755  
## [1] 1.602606  
## [1] 28.13604  
## [1] 2.830879e-07  
## [1] 6.666563  
## [1] 0.4331177  
## [1] 19.29297  
## [1] 7.337384  
## [1] 4.80417  
## [1] 8.055787  
## [1] 14.33607  
## [1] 0.9993735  
## [1] 149.7817  
## [1] 15.0776  
## [1] 15.59702  
## [1] 12.28428  
## [1] 1.652014  
## [1] 3.058976  
## [1] 0.3645207  
## [1] 1.873898  
## [1] 5.388104  
## [1] 14.4086  
## [1] 0.00288778  
## [1] 3.247522  
## [1] 4.245882  
## [1] 51.15285  
## [1] 0.09047813  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 0.5059754  
## [1] 10.97464  
## [1] 57.31828  
## [1] 3.893859  
## [1] 0.01143703  
## [1] 1.678281  
## [1] 0.4984952  
## [1] 0.5844949  
## [1] 1.301193  
## [1] 53.49578  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 8.504747  
## [1] 11.52508  
## [1] 2.46471  
## [1] 29.78405  
## [1] 802.9453  
## [1] 31.63658  
## [1] 1.334098  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 1.347525  
## [1] 4.709521  
## [1] 0.3367521  
## [1] 2.830879e-07  
## [1] 13.82364  
## [1] 187.5702  
## [1] 0.00288778  
## [1] 1.301193  
## [1] 38.69322  
## [1] 2.830879e-07  
## [1] 2.830879e-07  
## [1] 6.466915  
## [1] 10.73394  
## [1] 1.174509  
## [1] 5.947196  
## [1] 1.602606  
## [1] 1.602606  
## [1] 1.602606  
## [1] 1.459828  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
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## [1] 0.4008439  
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## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
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## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
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## [1] 0.4008439  
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## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439  
## [1] 0.4008439

# 3) Perform a two-sample t-test to compare the mean protein

# expression in the mice with injured brain and normal brain control

# mice for each protein

two\_sample <- function(t){  
test <- t.test(c(s\_1injuredbrainnumbs[t],  
 S\_2injuredbrainnumbs[t],s\_3injuredbrainnumbs[t],  
 s\_4injuredbrainnumbs[t]), c(s\_5normalbrainnumbs[t],  
 s\_6normalbrainnumbs[t],  
 s\_7normalbrainnumbs[t]))  
  
print(test)  
}  
  
value <- 1:300  
for(i in value){  
 t\_test <- two\_sample(i)  
 }

##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9151, df = 4.2282, p-value = 0.1241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.611031 15.062011  
## sample estimates:  
## mean of x mean of y   
## 25.31412 19.08863   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9693, df = 4.9036, p-value = 0.0003176  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.86345 -12.63046  
## sample estimates:  
## mean of x mean of y   
## 9.232765 26.979719   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 20.754, df = 3.0003, p-value = 0.0002445  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8084702 1.1013032  
## sample estimates:  
## mean of x mean of y   
## 0.96566207 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -14.261, df = 4.9145, p-value = 3.463e-05  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.11089 -10.47482  
## sample estimates:  
## mean of x mean of y   
## 1.924195 14.717051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -18.175, df = 3.0106, p-value = 0.0003557  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -20.71227 -14.55017  
## sample estimates:  
## mean of x mean of y   
## 9.636211 27.267432   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.2618, df = 3.2323, p-value = 0.004174  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.55628 18.54285  
## sample estimates:  
## mean of x mean of y   
## 13.409484 0.359921   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -10.838, df = 4.9819, p-value = 0.0001186  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.31668 -7.59007  
## sample estimates:  
## mean of x mean of y   
## 1.530245 11.483618   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7301, df = 4.05, p-value = 0.001433  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -54.98312 -26.02753  
## sample estimates:  
## mean of x mean of y   
## 19.84836 60.35369   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0169, df = 4.0256, p-value = 0.01571  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.095509 -2.039409  
## sample estimates:  
## mean of x mean of y   
## 8.211025 14.778484   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7787, df = 3, p-value = 0.003114  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 16.47296 35.20841  
## sample estimates:  
## mean of x mean of y   
## 25.85146055 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2898, df = 3.3868, p-value = 0.01816  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.939703 -5.900645  
## sample estimates:  
## mean of x mean of y   
## 19.53573 38.95591   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9084, df = 3.5906, p-value = 0.005732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.987934 -9.193381  
## sample estimates:  
## mean of x mean of y   
## 7.524222 25.614880   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.954, df = 4.9403, p-value = 0.001991  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.916994 -4.711586  
## sample estimates:  
## mean of x mean of y   
## 3.929463 12.243753   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.2403, df = 3.7544, p-value = 0.002455  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.89420 -13.87917  
## sample estimates:  
## mean of x mean of y   
## 22.00059 44.88727   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9298, df = 4.9369, p-value = 0.0003132  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.775282 -4.288987  
## sample estimates:  
## mean of x mean of y   
## 1.490891 7.523025   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0199, df = 4.1811, p-value = 0.006569  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.413335 -1.304296  
## sample estimates:  
## mean of x mean of y   
## 2.190912 5.049727   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9251, df = 2.5758, p-value = 0.03863  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.6671164 -0.3240827  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 3.2743090   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7549, df = 3.6941, p-value = 0.001335  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 18.67045 36.87635  
## sample estimates:  
## mean of x mean of y   
## 28.83038 1.05698   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6951, df = 2.1528, p-value = 0.05898  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.6678136 0.6652439  
## sample estimates:  
## mean of x mean of y   
## 3.376807 10.878092   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.923, df = 4.8608, p-value = 0.0003401  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.329280 -6.227551  
## sample estimates:  
## mean of x mean of y   
## 5.558158 14.336573   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8832, df = 2.4688, p-value = 0.04258  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7399919 -0.2484009  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.0027007   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7589, df = 3.7897, p-value = 0.003029  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.367204 -7.094773  
## sample estimates:  
## mean of x mean of y   
## 13.98942 26.22041   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.8869, df = 3.7846, p-value = 0.001137  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.44312 -2.29113  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.5921222   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8673, df = 3, p-value = 0.01657  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.6664644 3.1842286  
## sample estimates:  
## mean of x mean of y   
## 1.93612183 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8615, df = 2.4887, p-value = 0.04253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7164135 -0.2481256  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 4.0027007   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.6073, df = 2.5174, p-value = 0.09566  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3865073 2.5088269  
## sample estimates:  
## mean of x mean of y   
## 2.877864 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -9.2244, df = 3.6116, p-value = 0.001227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.613042 -1.885441  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 3.2433873   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.6139, df = 3.1092, p-value = 0.002865  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.204573 -4.309508  
## sample estimates:  
## mean of x mean of y   
## 3.618529 10.375570   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.5503, df = 2.3566, p-value = 0.007957  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.948912 -1.547702  
## sample estimates:  
## mean of x mean of y   
## 1.921763 4.670070   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5587, df = 3.1886, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.8435578 -0.7448902  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5455067   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3108, df = 4.6435, p-value = 0.003939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -67.72317 -22.85059  
## sample estimates:  
## mean of x mean of y   
## 52.40260 97.68948   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.1923, df = 3.0977, p-value = 0.004973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -56.63033 -22.31412  
## sample estimates:  
## mean of x mean of y   
## 40.85173 80.32396   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6167, df = 2.6505, p-value = 0.01542  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.033293 -3.144041  
## sample estimates:  
## mean of x mean of y   
## 5.262724 13.351391   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5456, df = 2.1956, p-value = 0.062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.349838 1.057106  
## sample estimates:  
## mean of x mean of y   
## 2.112204 11.258570   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.069, df = 3.3829, p-value = 0.002529  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.182336 -7.895619  
## sample estimates:  
## mean of x mean of y   
## 11.84499 24.38397   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.8602, df = 3.177, p-value = 0.005263  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -39.66509 -15.05986  
## sample estimates:  
## mean of x mean of y   
## 22.82095 50.18343   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.166, df = 3.6172, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.630718 -1.192107  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 4.7009919   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3671, df = 2.3563, p-value = 0.02285  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.221989 -1.832186  
## sample estimates:  
## mean of x mean of y   
## 1.464605 7.491693   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3215, df = 4.0742, p-value = 0.02854  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2474015 2.6622563  
## sample estimates:  
## mean of x mean of y   
## 2.1634848 0.7086559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.138, df = 4.5135, p-value = 0.0112  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.313748 -2.467506  
## sample estimates:  
## mean of x mean of y   
## 3.228152 10.118779   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.1923, df = 4.5485, p-value = 0.0006853  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.439062 -2.269594  
## sample estimates:  
## mean of x mean of y   
## 2.393280 5.747607   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.2022, df = 3.644, p-value = 0.01661  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 1.314941 7.086169  
## sample estimates:  
## mean of x mean of y   
## 5.986748 1.786193   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.2597, df = 4.8807, p-value = 0.001665  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.26449 -15.04001  
## sample estimates:  
## mean of x mean of y   
## 19.08329 44.73554   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6552, df = 2.5877, p-value = 0.04506  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4597543 -0.1267088  
## sample estimates:  
## mean of x mean of y   
## 0.4810775 3.2743090   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.676, df = 2, p-value = 0.06668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6139059 0.3623502  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.135338847   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0175, df = 4.076, p-value = 0.003616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -29.63556 -11.01603  
## sample estimates:  
## mean of x mean of y   
## 8.943336 29.269129   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.1267, df = 4.3787, p-value = 0.002662  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.652679 -3.380589  
## sample estimates:  
## mean of x mean of y   
## 1.506391 7.523025   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2782, df = 3.3052, p-value = 0.01925  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.404987 -3.853719  
## sample estimates:  
## mean of x mean of y   
## 5.292732 18.422085   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9263, df = 3.5211, p-value = 0.136  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.001606 3.933143  
## sample estimates:  
## mean of x mean of y   
## 34.47040 42.00463   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9604, df = 3.7771, p-value = 0.008928  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.991227 -2.712200  
## sample estimates:  
## mean of x mean of y   
## 2.218338 8.570052   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.528, df = 3.428, p-value = 0.003015  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 6.375522 14.679710  
## sample estimates:  
## mean of x mean of y   
## 11.2667830 0.7391671   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7107, df = 2, p-value = 0.06556  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3437685 0.3947429  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.484073813   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.527, df = 3.4875, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.5387808 -0.7492506  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.894242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2704, df = 2.9258, p-value = 0.02478  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.5327356 -0.9075642  
## sample estimates:  
## mean of x mean of y   
## 0.9800208 4.7001707   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3333, df = 3.0978, p-value = 0.02122  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6554731 -0.7532706  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.2128761   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6296, df = 2.4209, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.17019198 0.05018906  
## sample estimates:  
## mean of x mean of y   
## 3.361308 9.421309   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.5257, df = 4.9962, p-value = 0.001267  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 68.81757 158.30475  
## sample estimates:  
## mean of x mean of y   
## 157.86133 44.30017   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.1679, df = 3, p-value = 0.02514  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 4.825507 35.991634  
## sample estimates:  
## mean of x mean of y   
## 20.41934585 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.0249, df = 4.9857, p-value = 0.0009125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.710692 -2.185161  
## sample estimates:  
## mean of x mean of y   
## 3.376807 6.824734   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5237, df = 2.2036, p-value = 0.06241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.175512 0.515656  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 4.6086373   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0281, df = 2.2296, p-value = 0.08218  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.4474036 0.9416328  
## sample estimates:  
## mean of x mean of y   
## 0.750226 4.003111   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6632, df = 2.502, p-value = 0.02751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3301436 -0.7058154  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.2429766   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.438, df = 4.2248, p-value = 0.004735  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.688947 -4.229321  
## sample estimates:  
## mean of x mean of y   
## 6.258328 14.717462   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6182, df = 4.5499, p-value = 0.007252  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1573957 -0.8555868  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 2.5149956   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.108, df = 2.2942, p-value = 0.07539  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.03790 1.02476  
## sample estimates:  
## mean of x mean of y   
## 0.9537352 5.4603054   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.7707, df = 3, p-value = 0.0175  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.208811 26.082816  
## sample estimates:  
## mean of x mean of y   
## 15.65658885 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3, df = 3.4505, p-value = 0.01734  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.108295 -1.312166  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 4.9878834   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.4936, df = 3, p-value = 0.02057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.269953 13.289264  
## sample estimates:  
## mean of x mean of y   
## 7.79038392 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0003, df = 3.5242, p-value = 0.01037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -28.797734 -7.514687  
## sample estimates:  
## mean of x mean of y   
## 12.02520 30.18141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9081, df = 4.8772, p-value = 0.004751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -61.07196 -18.87933  
## sample estimates:  
## mean of x mean of y   
## 36.18785 76.16349   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6013, df = 4.9944, p-value = 0.002515  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.256841 -3.060995  
## sample estimates:  
## mean of x mean of y   
## 3.351813 9.010730   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2198, df = 4.5353, p-value = 0.0103  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.709514 -3.356404  
## sample estimates:  
## mean of x mean of y   
## 3.970107 13.003066   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1568, df = 2, p-value = 0.08739  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.672258 1.024941  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.833219418   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1165, df = 3.7767, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 13.79175 48.26764  
## sample estimates:  
## mean of x mean of y   
## 37.412519 6.382823   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2135, df = 3.0535, p-value = 0.04763  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.0300464 -0.3532739  
## sample estimates:  
## mean of x mean of y   
## 14.36128 32.55294   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1775, df = 3.9205, p-value = 0.006989  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.120381 -1.825218  
## sample estimates:  
## mean of x mean of y   
## 1.425252 5.398051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.0211, df = 3, p-value = 0.02762  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4887075 4.1975936  
## sample estimates:  
## mean of x mean of y   
## 2.35392594 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1282, df = 2.8668, p-value = 0.02813  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.782453 -0.905427  
## sample estimates:  
## mean of x mean of y   
## 0.9930889 5.3370290   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.4967, df = 4.093, p-value = 0.06559  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.2374211 4.8866647  
## sample estimates:  
## mean of x mean of y   
## 4.141326 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1551, df = 4.3471, p-value = 0.005348  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.590951 11.435051  
## sample estimates:  
## mean of x mean of y   
## 10.37632 2.86332   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.58908, df = 3.9596, p-value = 0.5878  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.164525 4.664779  
## sample estimates:  
## mean of x mean of y   
## 16.06334 17.31322   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1875, df = 2.7132, p-value = 0.03016  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.884664 -1.265676  
## sample estimates:  
## mean of x mean of y   
## 1.963549 8.538719   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.2351, df = 3.5558, p-value = 0.00875  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.860455 -2.801172  
## sample estimates:  
## mean of x mean of y   
## 6.579898 12.910712   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.6393, df = 3.0181, p-value = 0.01862  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.324417 49.624989  
## sample estimates:  
## mean of x mean of y   
## 29.8342136 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9898, df = 3.3859, p-value = 0.01153  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.785366 -3.963963  
## sample estimates:  
## mean of x mean of y   
## 7.376708 17.251372   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4671, df = 2, p-value = 0.1324  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.043501 1.909767  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.576428461   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.759, df = 3.9181, p-value = 0.002692  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.241987 -9.213455  
## sample estimates:  
## mean of x mean of y   
## 14.01342 29.74114   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3172, df = 4.2731, p-value = 0.02668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.940026 -2.016521  
## sample estimates:  
## mean of x mean of y   
## 14.98616 25.96444   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7087, df = 4.6917, p-value = 0.002831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.711900 -8.043898  
## sample estimates:  
## mean of x mean of y   
## 9.413712 24.291611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0189, df = 4.9979, p-value = 0.01014  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.256104 -2.473291  
## sample estimates:  
## mean of x mean of y   
## 4.680764 11.545462   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9406, df = 2.6396, p-value = 0.07079  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.2176438 0.9615601  
## sample estimates:  
## mean of x mean of y   
## 2.716140 8.344182   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5194, df = 3.0038, p-value = 0.03886  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.235604 -0.366333  
## sample estimates:  
## mean of x mean of y   
## 1.249169 5.050138   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.648, df = 3.0219, p-value = 0.03512  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.861331 111.993154  
## sample estimates:  
## mean of x mean of y   
## 117.23241 57.30516   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.9728, df = 3.8735, p-value = 0.001533  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.792710 -3.249936  
## sample estimates:  
## mean of x mean of y   
## 2.850437 7.871760   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3628, df = 2.6856, p-value = 0.02786  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.194272 -2.246173  
## sample estimates:  
## mean of x mean of y   
## 4.373553 14.593775   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.2426, df = 3, p-value = 0.01351  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8309285 3.3980656  
## sample estimates:  
## mean of x mean of y   
## 2.12527240 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.8539, df = 3, p-value = 0.03086  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4103326 4.2998222  
## sample estimates:  
## mean of x mean of y   
## 2.36585279 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5258, df = 4.8711, p-value = 0.002887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.982371 -3.970549  
## sample estimates:  
## mean of x mean of y   
## 7.968162 15.444622   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9306, df = 4.357, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.909829 -3.171693  
## sample estimates:  
## mean of x mean of y   
## 5.117791 15.158552   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5425, df = 4.0905, p-value = 0.009944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.598525 -1.864653  
## sample estimates:  
## mean of x mean of y   
## 2.852869 7.584458   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1271, df = 2, p-value = 0.08884  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.925013 1.728503  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 4.607816009   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3257, df = 2, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.23861 1.56248  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.847626128   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0225, df = 3.7517, p-value = 0.01797  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4733648 -0.9333939  
## sample estimates:  
## mean of x mean of y   
## 0.7382991 3.9416785   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.1526, df = 3, p-value = 0.008639  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.747959 30.637047  
## sample estimates:  
## mean of x mean of y   
## 20.20327830 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.6651, df = 3.2455, p-value = 0.005359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 213.5185 573.9180  
## sample estimates:  
## mean of x mean of y   
## 466.50352 72.78528   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9476, df = 2.3515, p-value = 0.02747  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.540247 -1.046663  
## sample estimates:  
## mean of x mean of y   
## 1.422820 5.716275   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9807, df = 4.976, p-value = 0.01062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.62163 -3.78086  
## sample estimates:  
## mean of x mean of y   
## 10.19373 20.89497   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9656, df = 3.0262, p-value = 0.01537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -144.99432 -32.06845  
## sample estimates:  
## mean of x mean of y   
## 109.0281 197.5595   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5267, df = 3.3976, p-value = 0.03172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.9117250 -0.2437934  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 1.8171150   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.89637, df = 4.2394, p-value = 0.418  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.289749 2.560645  
## sample estimates:  
## mean of x mean of y   
## 3.848324 3.212876   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4111, df = 3, p-value = 0.04212  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2772148 7.9936141  
## sample estimates:  
## mean of x mean of y   
## 4.14618983 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5091, df = 3.36, p-value = 0.008682  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1859911 -0.6452569  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.165850   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4178, df = 4.0661, p-value = 0.01111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.602545 -1.295178  
## sample estimates:  
## mean of x mean of y   
## 1.949190 5.398051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.781, df = 4.8261, p-value = 0.1371  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3344544 1.7914805  
## sample estimates:  
## mean of x mean of y   
## 3.592244 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6167, df = 4.3949, p-value = 0.01908  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6248494 -0.3901181  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.7861932   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.413, df = 3.0274, p-value = 0.02119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 11.15688 67.82137  
## sample estimates:  
## mean of x mean of y   
## 40.546513 1.057391   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1972, df = 2.3365, p-value = 0.0696  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.350108 2.617784  
## sample estimates:  
## mean of x mean of y   
## 9.762303 24.628465   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2313, df = 2.4115, p-value = 0.06527  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.585273 0.418858  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.5917116   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3053, df = 4.4972, p-value = 0.02501  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.8651261 -0.5267538  
## sample estimates:  
## mean of x mean of y   
## 0.547858 3.243798   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0049, df = 3.2966, p-value = 0.02338  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.318174 -1.853273  
## sample estimates:  
## mean of x mean of y   
## 3.456805 11.042529   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6134, df = 3.6691, p-value = 0.01216  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.401593 -3.799476  
## sample estimates:  
## mean of x mean of y   
## 7.027561 17.128096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6147, df = 3.0089, p-value = 0.01902  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -40.172746 -7.411542  
## sample estimates:  
## mean of x mean of y   
## 21.03411 44.82625   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2002, df = 2.5034, p-value = 0.06328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.3842989 0.5688978  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 5.6853533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2647, df = 4.4788, p-value = 0.02623  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1962632 -0.6286748  
## sample estimates:  
## mean of x mean of y   
## 1.288523 4.700992   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.5321, df = 3.1136, p-value = 0.01855  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.607962 19.514966  
## sample estimates:  
## mean of x mean of y   
## 12.2701200 0.7086559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9671, df = 3.3773, p-value = 0.006673  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -90.26851 -29.99657  
## sample estimates:  
## mean of x mean of y   
## 81.29159 141.42413   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9167, df = 4.402, p-value = 0.006198  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.159101 -1.225097  
## sample estimates:  
## mean of x mean of y   
## 1.249169 3.941268   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8373, df = 2.791, p-value = 0.07159  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0973167 0.3222145  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7057, df = 2.4531, p-value = 0.09139  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.5782504 0.6642398  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1963611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7385, df = 2.1561, p-value = 0.1028  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.242859 4.399882  
## sample estimates:  
## mean of x mean of y   
## 5.479451 14.900939   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7689, df = 3.02, p-value = 0.03232  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.620269 41.991430  
## sample estimates:  
## mean of x mean of y   
## 23.1653599 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.521, df = 4.9255, p-value = 0.01733  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.498057 -1.768365  
## sample estimates:  
## mean of x mean of y   
## 7.066915 13.700126   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6909, df = 2.8121, p-value = 0.07974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -74.736005 7.667914  
## sample estimates:  
## mean of x mean of y   
## 17.96488 51.49892   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8695, df = 4.995, p-value = 0.004607  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.42387 17.56109  
## sample estimates:  
## mean of x mean of y   
## 16.449443 4.956962   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6549, df = 2.3033, p-value = 0.1013  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.582919 1.348026  
## sample estimates:  
## mean of x mean of y   
## 1.234811 4.352257   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.8058, df = 3.8836, p-value = 0.004795  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 378.1008 1087.2066  
## sample estimates:  
## mean of x mean of y   
## 913.5699 180.9162   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0161, df = 2.6097, p-value = 0.0358  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.916496 -2.842371  
## sample estimates:  
## mean of x mean of y   
## 12.57616 33.45559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.724, df = 2.0699, p-value = 0.2226  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8587677 2.0710712  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5187, df = 2.0461, p-value = 0.1253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.232154 5.339316  
## sample estimates:  
## mean of x mean of y   
## 1.476532 9.422952   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4066, df = 4.8059, p-value = 0.007652  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.615335 -2.218126  
## sample estimates:  
## mean of x mean of y   
## 5.369008 10.785738   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4471, df = 2.2792, p-value = 0.06201  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.618837 1.258151  
## sample estimates:  
## mean of x mean of y   
## 4.841347 16.021690   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9638, df = 2.5761, p-value = 0.07172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.2025197 0.3487102  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7595, df = 4.7376, p-value = 0.001328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -52.65752 -23.28813  
## sample estimates:  
## mean of x mean of y   
## 33.60674 71.57956   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.0743, df = 4.0847, p-value = 0.1053  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.340553 9.524325  
## sample estimates:  
## mean of x mean of y   
## 10.157717 6.065831   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7936, df = 4.413, p-value = 0.01603  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.9500627 -0.6816825  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8862, df = 4.1273, p-value = 0.01672  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.45750 -6.63193  
## sample estimates:  
## mean of x mean of y   
## 24.20992 46.75464   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7648, df = 3.2806, p-value = 0.008078  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.5514750 -0.7919337  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 2.1658500   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5458, df = 4.9182, p-value = 0.002757  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.120285 -6.238587  
## sample estimates:  
## mean of x mean of y   
## 10.13888 21.81831   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7053, df = 3.0297, p-value = 0.03359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.68192 34.09062  
## sample estimates:  
## mean of x mean of y   
## 18.7457785 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0471, df = 2.637, p-value = 0.06563  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0396713 0.2477052  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1353388   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1596, df = 4.0283, p-value = 0.09645  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.402041 1.285711  
## sample estimates:  
## mean of x mean of y   
## 16.65421 21.21238   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4127, df = 2.4657, p-value = 0.05642  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4976417 0.1548532  
## sample estimates:  
## mean of x mean of y   
## 1.680041 4.351436   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9873, df = 2.8579, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.582019 2.380068  
## sample estimates:  
## mean of x mean of y   
## 2.366994 1.467969   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1035, df = 3.3677, p-value = 0.04552  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1328889 -0.1094653  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 3.9107567   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1139, df = 3.8202, p-value = 0.007818  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.774393 -1.949026  
## sample estimates:  
## mean of x mean of y   
## 1.385898 5.747607   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5502, df = 3.2245, p-value = 0.0339  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.835912 -0.654282  
## sample estimates:  
## mean of x mean of y   
## 0.9406671 5.6857639   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1489, df = 3, p-value = 0.05131  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.03013773 5.69047175  
## sample estimates:  
## mean of x mean of y   
## 2.84094238 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8414, df = 2.7945, p-value = 0.07125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0905734 0.3171137  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1654393   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1853, df = 2.5651, p-value = 0.334  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.814505 3.664305  
## sample estimates:  
## mean of x mean of y   
## 2.39328 1.46838   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2299, df = 2.1209, p-value = 0.1483  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.599775 5.738131  
## sample estimates:  
## mean of x mean of y   
## 2.931577 9.862399   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1123, df = 3, p-value = 0.05279  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.0606365 5.4403667  
## sample estimates:  
## mean of x mean of y   
## 2.70064048 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.536, df = 4.9766, p-value = 0.006262  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.096352 -4.441143  
## sample estimates:  
## mean of x mean of y   
## 9.743636 20.012383   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.797, df = 3.6459, p-value = 0.1537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.4951018 2.1290050  
## sample estimates:  
## mean of x mean of y   
## 1.2073837 0.3904321   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.407, df = 2.5181, p-value = 0.1117  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.062847 3.095966  
## sample estimates:  
## mean of x mean of y   
## 2.27091 8.75435   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8545, df = 3.3838, p-value = 0.02484  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.451078 -1.577389  
## sample estimates:  
## mean of x mean of y   
## 5.260442 12.274675   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7191, df = 4.2588, p-value = 0.007866  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.259067 -5.745032  
## sample estimates:  
## mean of x mean of y   
## 11.22983 24.73188   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.546, df = 3.014, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.164686 -2.517241  
## sample estimates:  
## mean of x mean of y   
## 6.283323 14.624286   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.873, df = 4.1312, p-value = 0.002084  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -50.19618 -21.56625  
## sample estimates:  
## mean of x mean of y   
## 51.03001 86.91123   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0515, df = 2.6394, p-value = 0.06535  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0343946 0.2432498  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1349282   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8686, df = 2.7788, p-value = 0.07023  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -47.850953 3.566437  
## sample estimates:  
## mean of x mean of y   
## 23.08392 45.22618   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.667, df = 2.0722, p-value = 0.06347  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.708993 1.119928  
## sample estimates:  
## mean of x mean of y   
## 3.794612 12.089144   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7722, df = 4.7526, p-value = 0.002591  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.72067 -10.07444  
## sample estimates:  
## mean of x mean of y   
## 18.06519 36.46274   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3193, df = 4.9934, p-value = 0.007599  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.555698 -5.720548  
## sample estimates:  
## mean of x mean of y   
## 12.65730 26.79542   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6783, df = 3.6398, p-value = 0.06113  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.9390316 0.1862899  
## sample estimates:  
## mean of x mean of y   
## 1.975475 4.351846   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.4752, df = 4.1848, p-value = 0.004746  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.323970 -6.469136  
## sample estimates:  
## mean of x mean of y   
## 17.57339 30.46994   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3712, df = 3.6497, p-value = 0.03224  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.5308599 6.8273510  
## sample estimates:  
## mean of x mean of y   
## 4.0386158 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1615, df = 2.6668, p-value = 0.3388  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.926498 3.908267  
## sample estimates:  
## mean of x mean of y   
## 2.838511 1.847626   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6513, df = 4.2962, p-value = 0.003887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -24.927487 -8.798864  
## sample estimates:  
## mean of x mean of y   
## 18.58305 35.44623   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7569, df = 4.273, p-value = 0.04743  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.434664 -0.138448  
## sample estimates:  
## mean of x mean of y   
## 4.519041 12.305597   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.8823, df = 3.1534, p-value = 0.05973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04195945 1.17056343  
## sample estimates:  
## mean of x mean of y   
## 1.652615 1.088313   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1768, df = 2.2175, p-value = 0.1488  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.514993 1.864702  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5764285   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3292, df = 4.9655, p-value = 0.02102  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.721807 -1.495167  
## sample estimates:  
## mean of x mean of y   
## 9.247124 15.855611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.8448, df = 4.781, p-value = 0.002409  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -64.23331 -24.61333  
## sample estimates:  
## mean of x mean of y   
## 50.39088 94.81420   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3751, df = 3.028, p-value = 0.02168  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.216131 -3.081283  
## sample estimates:  
## mean of x mean of y   
## 7.878083 19.026790   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4209, df = 3.6436, p-value = 0.07895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6074255 0.2289057  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4679694   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2839, df = 2.0924, p-value = 0.1442  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.399588 3.562874  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.9268611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.14198, df = 4.0228, p-value = 0.8939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.89387 14.34409  
## sample estimates:  
## mean of x mean of y   
## 66.08641 66.86130   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.0614, df = 2.2319, p-value = 0.3897  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.327303 5.814371  
## sample estimates:  
## mean of x mean of y   
## 2.393280 1.149746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6328, df = 3.3691, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1900578 -0.6699076  
## sample estimates:  
## mean of x mean of y   
## 0.7358673 2.1658500   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4638, df = 4.7147, p-value = 0.2065  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.196670 4.231716  
## sample estimates:  
## mean of x mean of y   
## 4.062619 2.545096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0687, df = 4.3833, p-value = 0.002755  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.671900 -2.967672  
## sample estimates:  
## mean of x mean of y   
## 4.357904 9.677689   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.73344, df = 4.5404, p-value = 0.4994  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.712915 3.023351  
## sample estimates:  
## mean of x mean of y   
## 3.200725 2.545507   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.6999, df = 4.766, p-value = 0.1528  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8395486 3.9793283  
## sample estimates:  
## mean of x mean of y   
## 2.688714 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3235, df = 2.322, p-value = 0.06496  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.163969 1.996526  
## sample estimates:  
## mean of x mean of y   
## 6.730837 21.314558   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3022, df = 2.1891, p-value = 0.0714  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.520677 1.142471  
## sample estimates:  
## mean of x mean of y   
## 2.850437 8.539540   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9307, df = 2.061, p-value = 0.1895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.073548 4.447846  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 4.0641336   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.117, df = 2.4034, p-value = 0.07057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.4606865 0.5348427  
## sample estimates:  
## mean of x mean of y   
## 1.706327 4.669249   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5635, df = 4.7154, p-value = 0.006965  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.368747 -8.498303  
## sample estimates:  
## mean of x mean of y   
## 26.02964 45.96317   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3626, df = 2.9788, p-value = 0.09979  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -101.43462 15.19753  
## sample estimates:  
## mean of x mean of y   
## 29.79843 72.91697   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3257, df = 4.8193, p-value = 0.02207  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.350764 27.353840  
## sample estimates:  
## mean of x mean of y   
## 45.66764 30.31533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6911, df = 2.7945, p-value = 0.08027  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.3854847 0.4581994  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 2.4840738   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6938, df = 4.2394, p-value = 0.05119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.65142022 0.01885379  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.864141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2547, df = 4.5185, p-value = 0.02616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.895684 -1.003844  
## sample estimates:  
## mean of x mean of y   
## 5.367717 10.817481   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6947, df = 4.2422, p-value = 0.05111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.326242527 0.008744948  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4374583   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4692, df = 3, p-value = 0.04037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.680507 15.784638  
## sample estimates:  
## mean of x mean of y   
## 8.24334773 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4949, df = 3.0572, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.454795 -3.249474  
## sample estimates:  
## mean of x mean of y   
## 10.30045 21.15259   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5537, df = 2.523, p-value = 0.09944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -51.303158 8.384741  
## sample estimates:  
## mean of x mean of y   
## 16.60551 38.06472   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2102, df = 4.8457, p-value = 0.0798  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.26667513 0.02137393  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 1.0883127   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4553, df = 4.9567, p-value = 0.2058  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.241579 4.462349  
## sample estimates:  
## mean of x mean of y   
## 2.729209 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9375, df = 2.0661, p-value = 0.1882  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.126786 8.095892  
## sample estimates:  
## mean of x mean of y   
## 0.7227991 7.7382458   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.928, df = 3, p-value = 0.0611  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.556842 13.371939  
## sample estimates:  
## mean of x mean of y   
## 6.41832393 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.7117, df = 3, p-value = 0.07306  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.263597 15.820528  
## sample estimates:  
## mean of x mean of y   
## 7.28924117 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1552, df = 2.5627, p-value = 0.1354  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.882460 2.127648  
## sample estimates:  
## mean of x mean of y   
## 1.733754 5.111160   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3103, df = 2.2781, p-value = 0.1315  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.021317 2.984808  
## sample estimates:  
## mean of x mean of y   
## 1.261096 5.779351   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1121, df = 4.4807, p-value = 0.01164  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.777967 -1.877738  
## sample estimates:  
## mean of x mean of y   
## 3.682878 9.010730   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.8674, df = 2.1474, p-value = 0.194  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.456616 3.102686  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.9556746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.0026, df = 2, p-value = 0.1831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.398391 1.604440  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.406536514   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
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## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
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## 95 percent confidence interval:  
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## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706

# 4) Sort the protein according to the p-value from the t-tests

# in ascending order. Report the protein with significant mean

# expression between the mice with injured brain and the normal

# control mice with p-value < 0.05 and p-value < 0.01, respectively.

value <- 1:300  
for(i in value){  
 p\_value <- two\_sample(i)$p.value  
 sorting\_pval <- sort(p\_value)  
 if(sorting\_pval < 0.05){  
 print(sorting\_pval)  
 }  
}

##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
##   
## [1] 0.0008184531  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
##   
## [1] 0.0008184531  
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## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
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## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## -1.2122037 -0.9452996  
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## mean of x mean of y   
## 0.009561011 1.088312672   
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## [1] 0.0008242713  
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## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## sample estimates:  
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## 0.009561011 1.088312672   
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## [1] 0.0008242713  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
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## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9151, df = 4.2282, p-value = 0.1241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.611031 15.062011  
## sample estimates:  
## mean of x mean of y   
## 25.31412 19.08863   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9693, df = 4.9036, p-value = 0.0003176  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.86345 -12.63046  
## sample estimates:  
## mean of x mean of y   
## 9.232765 26.979719   
##   
## [1] 0.0003175754  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 20.754, df = 3.0003, p-value = 0.0002445  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8084702 1.1013032  
## sample estimates:  
## mean of x mean of y   
## 0.96566207 0.01077537   
##   
## [1] 0.0002445134  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -14.261, df = 4.9145, p-value = 3.463e-05  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.11089 -10.47482  
## sample estimates:  
## mean of x mean of y   
## 1.924195 14.717051   
##   
## [1] 3.463366e-05  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -18.175, df = 3.0106, p-value = 0.0003557  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -20.71227 -14.55017  
## sample estimates:  
## mean of x mean of y   
## 9.636211 27.267432   
##   
## [1] 0.0003557466  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.2618, df = 3.2323, p-value = 0.004174  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.55628 18.54285  
## sample estimates:  
## mean of x mean of y   
## 13.409484 0.359921   
##   
## [1] 0.004173895  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -10.838, df = 4.9819, p-value = 0.0001186  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.31668 -7.59007  
## sample estimates:  
## mean of x mean of y   
## 1.530245 11.483618   
##   
## [1] 0.0001186291  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7301, df = 4.05, p-value = 0.001433  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -54.98312 -26.02753  
## sample estimates:  
## mean of x mean of y   
## 19.84836 60.35369   
##   
## [1] 0.001433475  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
## [1] 0.01609113  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
## [1] 0.01609113  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
## [1] 0.04227164  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
## [1] 0.04227164  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0169, df = 4.0256, p-value = 0.01571  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.095509 -2.039409  
## sample estimates:  
## mean of x mean of y   
## 8.211025 14.778484   
##   
## [1] 0.01570598  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7787, df = 3, p-value = 0.003114  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 16.47296 35.20841  
## sample estimates:  
## mean of x mean of y   
## 25.85146055 0.01077537   
##   
## [1] 0.003113537  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2898, df = 3.3868, p-value = 0.01816  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.939703 -5.900645  
## sample estimates:  
## mean of x mean of y   
## 19.53573 38.95591   
##   
## [1] 0.01815549  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9084, df = 3.5906, p-value = 0.005732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.987934 -9.193381  
## sample estimates:  
## mean of x mean of y   
## 7.524222 25.614880   
##   
## [1] 0.005731903  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.954, df = 4.9403, p-value = 0.001991  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.916994 -4.711586  
## sample estimates:  
## mean of x mean of y   
## 3.929463 12.243753   
##   
## [1] 0.001991018  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.2403, df = 3.7544, p-value = 0.002455  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.89420 -13.87917  
## sample estimates:  
## mean of x mean of y   
## 22.00059 44.88727   
##   
## [1] 0.002455066  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9298, df = 4.9369, p-value = 0.0003132  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.775282 -4.288987  
## sample estimates:  
## mean of x mean of y   
## 1.490891 7.523025   
##   
## [1] 0.0003131509  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0199, df = 4.1811, p-value = 0.006569  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.413335 -1.304296  
## sample estimates:  
## mean of x mean of y   
## 2.190912 5.049727   
##   
## [1] 0.006569364  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
## [1] 0.03056042  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
## [1] 0.03056042  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9251, df = 2.5758, p-value = 0.03863  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.6671164 -0.3240827  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 3.2743090   
##   
## [1] 0.03862681  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7549, df = 3.6941, p-value = 0.001335  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 18.67045 36.87635  
## sample estimates:  
## mean of x mean of y   
## 28.83038 1.05698   
##   
## [1] 0.001334705  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6951, df = 2.1528, p-value = 0.05898  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.6678136 0.6652439  
## sample estimates:  
## mean of x mean of y   
## 3.376807 10.878092   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.923, df = 4.8608, p-value = 0.0003401  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.329280 -6.227551  
## sample estimates:  
## mean of x mean of y   
## 5.558158 14.336573   
##   
## [1] 0.0003401205  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8832, df = 2.4688, p-value = 0.04258  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7399919 -0.2484009  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.0027007   
##   
## [1] 0.0425802  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7589, df = 3.7897, p-value = 0.003029  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.367204 -7.094773  
## sample estimates:  
## mean of x mean of y   
## 13.98942 26.22041   
##   
## [1] 0.003029385  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.8869, df = 3.7846, p-value = 0.001137  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.44312 -2.29113  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.5921222   
##   
## [1] 0.001137268  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8673, df = 3, p-value = 0.01657  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.6664644 3.1842286  
## sample estimates:  
## mean of x mean of y   
## 1.93612183 0.01077537   
##   
## [1] 0.01656776  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8615, df = 2.4887, p-value = 0.04253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7164135 -0.2481256  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 4.0027007   
##   
## [1] 0.04252535  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.6073, df = 2.5174, p-value = 0.09566  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3865073 2.5088269  
## sample estimates:  
## mean of x mean of y   
## 2.877864 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -9.2244, df = 3.6116, p-value = 0.001227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.613042 -1.885441  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 3.2433873   
##   
## [1] 0.001226612  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.6139, df = 3.1092, p-value = 0.002865  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.204573 -4.309508  
## sample estimates:  
## mean of x mean of y   
## 3.618529 10.375570   
##   
## [1] 0.002864557  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.5503, df = 2.3566, p-value = 0.007957  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.948912 -1.547702  
## sample estimates:  
## mean of x mean of y   
## 1.921763 4.670070   
##   
## [1] 0.007956933  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5587, df = 3.1886, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.8435578 -0.7448902  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5455067   
##   
## [1] 0.01732268  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3108, df = 4.6435, p-value = 0.003939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -67.72317 -22.85059  
## sample estimates:  
## mean of x mean of y   
## 52.40260 97.68948   
##   
## [1] 0.003939033  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.1923, df = 3.0977, p-value = 0.004973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -56.63033 -22.31412  
## sample estimates:  
## mean of x mean of y   
## 40.85173 80.32396   
##   
## [1] 0.004973415  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6167, df = 2.6505, p-value = 0.01542  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.033293 -3.144041  
## sample estimates:  
## mean of x mean of y   
## 5.262724 13.351391   
##   
## [1] 0.01542132  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5456, df = 2.1956, p-value = 0.062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.349838 1.057106  
## sample estimates:  
## mean of x mean of y   
## 2.112204 11.258570   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.069, df = 3.3829, p-value = 0.002529  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.182336 -7.895619  
## sample estimates:  
## mean of x mean of y   
## 11.84499 24.38397   
##   
## [1] 0.002528533  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.8602, df = 3.177, p-value = 0.005263  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -39.66509 -15.05986  
## sample estimates:  
## mean of x mean of y   
## 22.82095 50.18343   
##   
## [1] 0.005263201  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.166, df = 3.6172, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.630718 -1.192107  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 4.7009919   
##   
## [1] 0.01732092  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3671, df = 2.3563, p-value = 0.02285  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.221989 -1.832186  
## sample estimates:  
## mean of x mean of y   
## 1.464605 7.491693   
##   
## [1] 0.02285032  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3215, df = 4.0742, p-value = 0.02854  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2474015 2.6622563  
## sample estimates:  
## mean of x mean of y   
## 2.1634848 0.7086559   
##   
## [1] 0.02853987  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.138, df = 4.5135, p-value = 0.0112  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.313748 -2.467506  
## sample estimates:  
## mean of x mean of y   
## 3.228152 10.118779   
##   
## [1] 0.01119634  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.1923, df = 4.5485, p-value = 0.0006853  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.439062 -2.269594  
## sample estimates:  
## mean of x mean of y   
## 2.393280 5.747607   
##   
## [1] 0.0006853413  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.2022, df = 3.644, p-value = 0.01661  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 1.314941 7.086169  
## sample estimates:  
## mean of x mean of y   
## 5.986748 1.786193   
##   
## [1] 0.01660576  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.2597, df = 4.8807, p-value = 0.001665  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.26449 -15.04001  
## sample estimates:  
## mean of x mean of y   
## 19.08329 44.73554   
##   
## [1] 0.001665223  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6552, df = 2.5877, p-value = 0.04506  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4597543 -0.1267088  
## sample estimates:  
## mean of x mean of y   
## 0.4810775 3.2743090   
##   
## [1] 0.04505723  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.676, df = 2, p-value = 0.06668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6139059 0.3623502  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.135338847   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0175, df = 4.076, p-value = 0.003616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -29.63556 -11.01603  
## sample estimates:  
## mean of x mean of y   
## 8.943336 29.269129   
##   
## [1] 0.003615563  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.1267, df = 4.3787, p-value = 0.002662  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.652679 -3.380589  
## sample estimates:  
## mean of x mean of y   
## 1.506391 7.523025   
##   
## [1] 0.002661505  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2782, df = 3.3052, p-value = 0.01925  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.404987 -3.853719  
## sample estimates:  
## mean of x mean of y   
## 5.292732 18.422085   
##   
## [1] 0.01924922  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9263, df = 3.5211, p-value = 0.136  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.001606 3.933143  
## sample estimates:  
## mean of x mean of y   
## 34.47040 42.00463   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9604, df = 3.7771, p-value = 0.008928  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.991227 -2.712200  
## sample estimates:  
## mean of x mean of y   
## 2.218338 8.570052   
##   
## [1] 0.008927515  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.528, df = 3.428, p-value = 0.003015  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 6.375522 14.679710  
## sample estimates:  
## mean of x mean of y   
## 11.2667830 0.7391671   
##   
## [1] 0.003014644  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7107, df = 2, p-value = 0.06556  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3437685 0.3947429  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.484073813   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.527, df = 3.4875, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.5387808 -0.7492506  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.894242   
##   
## [1] 0.01449129  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2704, df = 2.9258, p-value = 0.02478  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.5327356 -0.9075642  
## sample estimates:  
## mean of x mean of y   
## 0.9800208 4.7001707   
##   
## [1] 0.02478115  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3333, df = 3.0978, p-value = 0.02122  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6554731 -0.7532706  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.2128761   
##   
## [1] 0.02122419  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6296, df = 2.4209, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.17019198 0.05018906  
## sample estimates:  
## mean of x mean of y   
## 3.361308 9.421309   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.5257, df = 4.9962, p-value = 0.001267  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 68.81757 158.30475  
## sample estimates:  
## mean of x mean of y   
## 157.86133 44.30017   
##   
## [1] 0.001267388  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.1679, df = 3, p-value = 0.02514  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 4.825507 35.991634  
## sample estimates:  
## mean of x mean of y   
## 20.41934585 0.01077537   
##   
## [1] 0.02513663  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.0249, df = 4.9857, p-value = 0.0009125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.710692 -2.185161  
## sample estimates:  
## mean of x mean of y   
## 3.376807 6.824734   
##   
## [1] 0.000912545  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5237, df = 2.2036, p-value = 0.06241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.175512 0.515656  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 4.6086373   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0281, df = 2.2296, p-value = 0.08218  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.4474036 0.9416328  
## sample estimates:  
## mean of x mean of y   
## 0.750226 4.003111   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6632, df = 2.502, p-value = 0.02751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3301436 -0.7058154  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.2429766   
##   
## [1] 0.02750515  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.438, df = 4.2248, p-value = 0.004735  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.688947 -4.229321  
## sample estimates:  
## mean of x mean of y   
## 6.258328 14.717462   
##   
## [1] 0.004735216  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6182, df = 4.5499, p-value = 0.007252  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1573957 -0.8555868  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 2.5149956   
##   
## [1] 0.007251525  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.108, df = 2.2942, p-value = 0.07539  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.03790 1.02476  
## sample estimates:  
## mean of x mean of y   
## 0.9537352 5.4603054   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.7707, df = 3, p-value = 0.0175  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.208811 26.082816  
## sample estimates:  
## mean of x mean of y   
## 15.65658885 0.01077537   
##   
## [1] 0.01749695  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3, df = 3.4505, p-value = 0.01734  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.108295 -1.312166  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 4.9878834   
##   
## [1] 0.0173391  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.4936, df = 3, p-value = 0.02057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.269953 13.289264  
## sample estimates:  
## mean of x mean of y   
## 7.79038392 0.01077537   
##   
## [1] 0.02056894  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0003, df = 3.5242, p-value = 0.01037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -28.797734 -7.514687  
## sample estimates:  
## mean of x mean of y   
## 12.02520 30.18141   
##   
## [1] 0.01036714  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9081, df = 4.8772, p-value = 0.004751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -61.07196 -18.87933  
## sample estimates:  
## mean of x mean of y   
## 36.18785 76.16349   
##   
## [1] 0.004751128  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6013, df = 4.9944, p-value = 0.002515  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.256841 -3.060995  
## sample estimates:  
## mean of x mean of y   
## 3.351813 9.010730   
##   
## [1] 0.002514739  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2198, df = 4.5353, p-value = 0.0103  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.709514 -3.356404  
## sample estimates:  
## mean of x mean of y   
## 3.970107 13.003066   
##   
## [1] 0.0103014  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1568, df = 2, p-value = 0.08739  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.672258 1.024941  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.833219418   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1165, df = 3.7767, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 13.79175 48.26764  
## sample estimates:  
## mean of x mean of y   
## 37.412519 6.382823   
##   
## [1] 0.00804412  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2135, df = 3.0535, p-value = 0.04763  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.0300464 -0.3532739  
## sample estimates:  
## mean of x mean of y   
## 14.36128 32.55294   
##   
## [1] 0.04762872  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1775, df = 3.9205, p-value = 0.006989  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.120381 -1.825218  
## sample estimates:  
## mean of x mean of y   
## 1.425252 5.398051   
##   
## [1] 0.006988707  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.0211, df = 3, p-value = 0.02762  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4887075 4.1975936  
## sample estimates:  
## mean of x mean of y   
## 2.35392594 0.01077537   
##   
## [1] 0.02762468  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1282, df = 2.8668, p-value = 0.02813  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.782453 -0.905427  
## sample estimates:  
## mean of x mean of y   
## 0.9930889 5.3370290   
##   
## [1] 0.02812901  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.4967, df = 4.093, p-value = 0.06559  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.2374211 4.8866647  
## sample estimates:  
## mean of x mean of y   
## 4.141326 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1551, df = 4.3471, p-value = 0.005348  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.590951 11.435051  
## sample estimates:  
## mean of x mean of y   
## 10.37632 2.86332   
##   
## [1] 0.005348363  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.58908, df = 3.9596, p-value = 0.5878  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.164525 4.664779  
## sample estimates:  
## mean of x mean of y   
## 16.06334 17.31322   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1875, df = 2.7132, p-value = 0.03016  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.884664 -1.265676  
## sample estimates:  
## mean of x mean of y   
## 1.963549 8.538719   
##   
## [1] 0.03016156  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.2351, df = 3.5558, p-value = 0.00875  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.860455 -2.801172  
## sample estimates:  
## mean of x mean of y   
## 6.579898 12.910712   
##   
## [1] 0.008750104  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.6393, df = 3.0181, p-value = 0.01862  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.324417 49.624989  
## sample estimates:  
## mean of x mean of y   
## 29.8342136 0.3595103   
##   
## [1] 0.0186242  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9898, df = 3.3859, p-value = 0.01153  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.785366 -3.963963  
## sample estimates:  
## mean of x mean of y   
## 7.376708 17.251372   
##   
## [1] 0.01153281  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4671, df = 2, p-value = 0.1324  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.043501 1.909767  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.576428461   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.759, df = 3.9181, p-value = 0.002692  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.241987 -9.213455  
## sample estimates:  
## mean of x mean of y   
## 14.01342 29.74114   
##   
## [1] 0.002691653  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3172, df = 4.2731, p-value = 0.02668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.940026 -2.016521  
## sample estimates:  
## mean of x mean of y   
## 14.98616 25.96444   
##   
## [1] 0.026678  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7087, df = 4.6917, p-value = 0.002831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.711900 -8.043898  
## sample estimates:  
## mean of x mean of y   
## 9.413712 24.291611   
##   
## [1] 0.002830549  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0189, df = 4.9979, p-value = 0.01014  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.256104 -2.473291  
## sample estimates:  
## mean of x mean of y   
## 4.680764 11.545462   
##   
## [1] 0.01014072  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9406, df = 2.6396, p-value = 0.07079  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.2176438 0.9615601  
## sample estimates:  
## mean of x mean of y   
## 2.716140 8.344182   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5194, df = 3.0038, p-value = 0.03886  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.235604 -0.366333  
## sample estimates:  
## mean of x mean of y   
## 1.249169 5.050138   
##   
## [1] 0.03885717  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.648, df = 3.0219, p-value = 0.03512  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.861331 111.993154  
## sample estimates:  
## mean of x mean of y   
## 117.23241 57.30516   
##   
## [1] 0.03511584  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.9728, df = 3.8735, p-value = 0.001533  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.792710 -3.249936  
## sample estimates:  
## mean of x mean of y   
## 2.850437 7.871760   
##   
## [1] 0.001532688  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3628, df = 2.6856, p-value = 0.02786  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.194272 -2.246173  
## sample estimates:  
## mean of x mean of y   
## 4.373553 14.593775   
##   
## [1] 0.02785929  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.2426, df = 3, p-value = 0.01351  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8309285 3.3980656  
## sample estimates:  
## mean of x mean of y   
## 2.12527240 0.01077537   
##   
## [1] 0.0135106  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.8539, df = 3, p-value = 0.03086  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4103326 4.2998222  
## sample estimates:  
## mean of x mean of y   
## 2.36585279 0.01077537   
##   
## [1] 0.03085859  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5258, df = 4.8711, p-value = 0.002887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.982371 -3.970549  
## sample estimates:  
## mean of x mean of y   
## 7.968162 15.444622   
##   
## [1] 0.002886502  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9306, df = 4.357, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.909829 -3.171693  
## sample estimates:  
## mean of x mean of y   
## 5.117791 15.158552   
##   
## [1] 0.01448911  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5425, df = 4.0905, p-value = 0.009944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.598525 -1.864653  
## sample estimates:  
## mean of x mean of y   
## 2.852869 7.584458   
##   
## [1] 0.009943772  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1271, df = 2, p-value = 0.08884  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.925013 1.728503  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 4.607816009   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3257, df = 2, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.23861 1.56248  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.847626128   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0225, df = 3.7517, p-value = 0.01797  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4733648 -0.9333939  
## sample estimates:  
## mean of x mean of y   
## 0.7382991 3.9416785   
##   
## [1] 0.01796685  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.1526, df = 3, p-value = 0.008639  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.747959 30.637047  
## sample estimates:  
## mean of x mean of y   
## 20.20327830 0.01077537   
##   
## [1] 0.00863878  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.6651, df = 3.2455, p-value = 0.005359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 213.5185 573.9180  
## sample estimates:  
## mean of x mean of y   
## 466.50352 72.78528   
##   
## [1] 0.005358808  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9476, df = 2.3515, p-value = 0.02747  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.540247 -1.046663  
## sample estimates:  
## mean of x mean of y   
## 1.422820 5.716275   
##   
## [1] 0.02746795  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9807, df = 4.976, p-value = 0.01062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.62163 -3.78086  
## sample estimates:  
## mean of x mean of y   
## 10.19373 20.89497   
##   
## [1] 0.01062497  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9656, df = 3.0262, p-value = 0.01537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -144.99432 -32.06845  
## sample estimates:  
## mean of x mean of y   
## 109.0281 197.5595   
##   
## [1] 0.01536628  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5267, df = 3.3976, p-value = 0.03172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.9117250 -0.2437934  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 1.8171150   
##   
## [1] 0.03172263  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.89637, df = 4.2394, p-value = 0.418  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.289749 2.560645  
## sample estimates:  
## mean of x mean of y   
## 3.848324 3.212876   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4111, df = 3, p-value = 0.04212  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2772148 7.9936141  
## sample estimates:  
## mean of x mean of y   
## 4.14618983 0.01077537   
##   
## [1] 0.04211646  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5091, df = 3.36, p-value = 0.008682  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1859911 -0.6452569  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.165850   
##   
## [1] 0.008682335  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4178, df = 4.0661, p-value = 0.01111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.602545 -1.295178  
## sample estimates:  
## mean of x mean of y   
## 1.949190 5.398051   
##   
## [1] 0.01111299  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.781, df = 4.8261, p-value = 0.1371  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3344544 1.7914805  
## sample estimates:  
## mean of x mean of y   
## 3.592244 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6167, df = 4.3949, p-value = 0.01908  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6248494 -0.3901181  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.7861932   
##   
## [1] 0.01907984  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.413, df = 3.0274, p-value = 0.02119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 11.15688 67.82137  
## sample estimates:  
## mean of x mean of y   
## 40.546513 1.057391   
##   
## [1] 0.02118557  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1972, df = 2.3365, p-value = 0.0696  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.350108 2.617784  
## sample estimates:  
## mean of x mean of y   
## 9.762303 24.628465   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2313, df = 2.4115, p-value = 0.06527  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.585273 0.418858  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.5917116   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3053, df = 4.4972, p-value = 0.02501  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.8651261 -0.5267538  
## sample estimates:  
## mean of x mean of y   
## 0.547858 3.243798   
##   
## [1] 0.0250072  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0049, df = 3.2966, p-value = 0.02338  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.318174 -1.853273  
## sample estimates:  
## mean of x mean of y   
## 3.456805 11.042529   
##   
## [1] 0.02337717  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6134, df = 3.6691, p-value = 0.01216  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.401593 -3.799476  
## sample estimates:  
## mean of x mean of y   
## 7.027561 17.128096   
##   
## [1] 0.01216147  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6147, df = 3.0089, p-value = 0.01902  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -40.172746 -7.411542  
## sample estimates:  
## mean of x mean of y   
## 21.03411 44.82625   
##   
## [1] 0.01902354  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2002, df = 2.5034, p-value = 0.06328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.3842989 0.5688978  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 5.6853533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2647, df = 4.4788, p-value = 0.02623  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1962632 -0.6286748  
## sample estimates:  
## mean of x mean of y   
## 1.288523 4.700992   
##   
## [1] 0.02622642  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.5321, df = 3.1136, p-value = 0.01855  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.607962 19.514966  
## sample estimates:  
## mean of x mean of y   
## 12.2701200 0.7086559   
##   
## [1] 0.01855156  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9671, df = 3.3773, p-value = 0.006673  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -90.26851 -29.99657  
## sample estimates:  
## mean of x mean of y   
## 81.29159 141.42413   
##   
## [1] 0.006672768  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9167, df = 4.402, p-value = 0.006198  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.159101 -1.225097  
## sample estimates:  
## mean of x mean of y   
## 1.249169 3.941268   
##   
## [1] 0.006197617  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8373, df = 2.791, p-value = 0.07159  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0973167 0.3222145  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7057, df = 2.4531, p-value = 0.09139  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.5782504 0.6642398  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1963611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7385, df = 2.1561, p-value = 0.1028  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.242859 4.399882  
## sample estimates:  
## mean of x mean of y   
## 5.479451 14.900939   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7689, df = 3.02, p-value = 0.03232  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.620269 41.991430  
## sample estimates:  
## mean of x mean of y   
## 23.1653599 0.3595103   
##   
## [1] 0.03231828  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.521, df = 4.9255, p-value = 0.01733  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.498057 -1.768365  
## sample estimates:  
## mean of x mean of y   
## 7.066915 13.700126   
##   
## [1] 0.01732662  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6909, df = 2.8121, p-value = 0.07974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -74.736005 7.667914  
## sample estimates:  
## mean of x mean of y   
## 17.96488 51.49892   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8695, df = 4.995, p-value = 0.004607  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.42387 17.56109  
## sample estimates:  
## mean of x mean of y   
## 16.449443 4.956962   
##   
## [1] 0.004607076  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6549, df = 2.3033, p-value = 0.1013  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.582919 1.348026  
## sample estimates:  
## mean of x mean of y   
## 1.234811 4.352257   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.8058, df = 3.8836, p-value = 0.004795  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 378.1008 1087.2066  
## sample estimates:  
## mean of x mean of y   
## 913.5699 180.9162   
##   
## [1] 0.004795147  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0161, df = 2.6097, p-value = 0.0358  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.916496 -2.842371  
## sample estimates:  
## mean of x mean of y   
## 12.57616 33.45559   
##   
## [1] 0.03579968  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.724, df = 2.0699, p-value = 0.2226  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8587677 2.0710712  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5187, df = 2.0461, p-value = 0.1253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.232154 5.339316  
## sample estimates:  
## mean of x mean of y   
## 1.476532 9.422952   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4066, df = 4.8059, p-value = 0.007652  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.615335 -2.218126  
## sample estimates:  
## mean of x mean of y   
## 5.369008 10.785738   
##   
## [1] 0.007652041  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4471, df = 2.2792, p-value = 0.06201  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.618837 1.258151  
## sample estimates:  
## mean of x mean of y   
## 4.841347 16.021690   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9638, df = 2.5761, p-value = 0.07172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.2025197 0.3487102  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7595, df = 4.7376, p-value = 0.001328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -52.65752 -23.28813  
## sample estimates:  
## mean of x mean of y   
## 33.60674 71.57956   
##   
## [1] 0.001328285  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.0743, df = 4.0847, p-value = 0.1053  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.340553 9.524325  
## sample estimates:  
## mean of x mean of y   
## 10.157717 6.065831   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7936, df = 4.413, p-value = 0.01603  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.9500627 -0.6816825  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.863731   
##   
## [1] 0.01603314  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8862, df = 4.1273, p-value = 0.01672  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.45750 -6.63193  
## sample estimates:  
## mean of x mean of y   
## 24.20992 46.75464   
##   
## [1] 0.01672389  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7648, df = 3.2806, p-value = 0.008078  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.5514750 -0.7919337  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 2.1658500   
##   
## [1] 0.008078322  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5458, df = 4.9182, p-value = 0.002757  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.120285 -6.238587  
## sample estimates:  
## mean of x mean of y   
## 10.13888 21.81831   
##   
## [1] 0.002757491  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7053, df = 3.0297, p-value = 0.03359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.68192 34.09062  
## sample estimates:  
## mean of x mean of y   
## 18.7457785 0.3595103   
##   
## [1] 0.03358587  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0471, df = 2.637, p-value = 0.06563  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0396713 0.2477052  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1353388   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1596, df = 4.0283, p-value = 0.09645  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.402041 1.285711  
## sample estimates:  
## mean of x mean of y   
## 16.65421 21.21238   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4127, df = 2.4657, p-value = 0.05642  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4976417 0.1548532  
## sample estimates:  
## mean of x mean of y   
## 1.680041 4.351436   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9873, df = 2.8579, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.582019 2.380068  
## sample estimates:  
## mean of x mean of y   
## 2.366994 1.467969   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1035, df = 3.3677, p-value = 0.04552  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1328889 -0.1094653  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 3.9107567   
##   
## [1] 0.04552339  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1139, df = 3.8202, p-value = 0.007818  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.774393 -1.949026  
## sample estimates:  
## mean of x mean of y   
## 1.385898 5.747607   
##   
## [1] 0.007818016  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5502, df = 3.2245, p-value = 0.0339  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.835912 -0.654282  
## sample estimates:  
## mean of x mean of y   
## 0.9406671 5.6857639   
##   
## [1] 0.03390333  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1489, df = 3, p-value = 0.05131  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.03013773 5.69047175  
## sample estimates:  
## mean of x mean of y   
## 2.84094238 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8414, df = 2.7945, p-value = 0.07125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0905734 0.3171137  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1654393   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1853, df = 2.5651, p-value = 0.334  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.814505 3.664305  
## sample estimates:  
## mean of x mean of y   
## 2.39328 1.46838   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2299, df = 2.1209, p-value = 0.1483  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.599775 5.738131  
## sample estimates:  
## mean of x mean of y   
## 2.931577 9.862399   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1123, df = 3, p-value = 0.05279  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.0606365 5.4403667  
## sample estimates:  
## mean of x mean of y   
## 2.70064048 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.536, df = 4.9766, p-value = 0.006262  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.096352 -4.441143  
## sample estimates:  
## mean of x mean of y   
## 9.743636 20.012383   
##   
## [1] 0.006262323  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.797, df = 3.6459, p-value = 0.1537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.4951018 2.1290050  
## sample estimates:  
## mean of x mean of y   
## 1.2073837 0.3904321   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.407, df = 2.5181, p-value = 0.1117  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.062847 3.095966  
## sample estimates:  
## mean of x mean of y   
## 2.27091 8.75435   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8545, df = 3.3838, p-value = 0.02484  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.451078 -1.577389  
## sample estimates:  
## mean of x mean of y   
## 5.260442 12.274675   
##   
## [1] 0.02483601  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7191, df = 4.2588, p-value = 0.007866  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.259067 -5.745032  
## sample estimates:  
## mean of x mean of y   
## 11.22983 24.73188   
##   
## [1] 0.007866115  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.546, df = 3.014, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.164686 -2.517241  
## sample estimates:  
## mean of x mean of y   
## 6.283323 14.624286   
##   
## [1] 0.01973706  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.873, df = 4.1312, p-value = 0.002084  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -50.19618 -21.56625  
## sample estimates:  
## mean of x mean of y   
## 51.03001 86.91123   
##   
## [1] 0.002084322  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0515, df = 2.6394, p-value = 0.06535  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0343946 0.2432498  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1349282   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8686, df = 2.7788, p-value = 0.07023  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -47.850953 3.566437  
## sample estimates:  
## mean of x mean of y   
## 23.08392 45.22618   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.667, df = 2.0722, p-value = 0.06347  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.708993 1.119928  
## sample estimates:  
## mean of x mean of y   
## 3.794612 12.089144   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7722, df = 4.7526, p-value = 0.002591  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.72067 -10.07444  
## sample estimates:  
## mean of x mean of y   
## 18.06519 36.46274   
##   
## [1] 0.002591424  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3193, df = 4.9934, p-value = 0.007599  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.555698 -5.720548  
## sample estimates:  
## mean of x mean of y   
## 12.65730 26.79542   
##   
## [1] 0.007598689  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6783, df = 3.6398, p-value = 0.06113  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.9390316 0.1862899  
## sample estimates:  
## mean of x mean of y   
## 1.975475 4.351846   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.4752, df = 4.1848, p-value = 0.004746  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.323970 -6.469136  
## sample estimates:  
## mean of x mean of y   
## 17.57339 30.46994   
##   
## [1] 0.004745802  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3712, df = 3.6497, p-value = 0.03224  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.5308599 6.8273510  
## sample estimates:  
## mean of x mean of y   
## 4.0386158 0.3595103   
##   
## [1] 0.03223748  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1615, df = 2.6668, p-value = 0.3388  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.926498 3.908267  
## sample estimates:  
## mean of x mean of y   
## 2.838511 1.847626   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6513, df = 4.2962, p-value = 0.003887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -24.927487 -8.798864  
## sample estimates:  
## mean of x mean of y   
## 18.58305 35.44623   
##   
## [1] 0.003887021  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7569, df = 4.273, p-value = 0.04743  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.434664 -0.138448  
## sample estimates:  
## mean of x mean of y   
## 4.519041 12.305597   
##   
## [1] 0.04742938  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.8823, df = 3.1534, p-value = 0.05973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04195945 1.17056343  
## sample estimates:  
## mean of x mean of y   
## 1.652615 1.088313   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1768, df = 2.2175, p-value = 0.1488  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.514993 1.864702  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5764285   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3292, df = 4.9655, p-value = 0.02102  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.721807 -1.495167  
## sample estimates:  
## mean of x mean of y   
## 9.247124 15.855611   
##   
## [1] 0.02101561  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.8448, df = 4.781, p-value = 0.002409  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -64.23331 -24.61333  
## sample estimates:  
## mean of x mean of y   
## 50.39088 94.81420   
##   
## [1] 0.002409338  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3751, df = 3.028, p-value = 0.02168  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.216131 -3.081283  
## sample estimates:  
## mean of x mean of y   
## 7.878083 19.026790   
##   
## [1] 0.02167647  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
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##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## mean of x mean of y   
## 0.75022596 0.01077537   
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## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
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## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
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##   
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## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4209, df = 3.6436, p-value = 0.07895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6074255 0.2289057  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4679694   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2839, df = 2.0924, p-value = 0.1442  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.399588 3.562874  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.9268611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.14198, df = 4.0228, p-value = 0.8939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.89387 14.34409  
## sample estimates:  
## mean of x mean of y   
## 66.08641 66.86130   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.0614, df = 2.2319, p-value = 0.3897  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.327303 5.814371  
## sample estimates:  
## mean of x mean of y   
## 2.393280 1.149746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6328, df = 3.3691, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1900578 -0.6699076  
## sample estimates:  
## mean of x mean of y   
## 0.7358673 2.1658500   
##   
## [1] 0.008044476  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4638, df = 4.7147, p-value = 0.2065  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.196670 4.231716  
## sample estimates:  
## mean of x mean of y   
## 4.062619 2.545096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0687, df = 4.3833, p-value = 0.002755  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.671900 -2.967672  
## sample estimates:  
## mean of x mean of y   
## 4.357904 9.677689   
##   
## [1] 0.002754599  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.73344, df = 4.5404, p-value = 0.4994  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.712915 3.023351  
## sample estimates:  
## mean of x mean of y   
## 3.200725 2.545507   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.6999, df = 4.766, p-value = 0.1528  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8395486 3.9793283  
## sample estimates:  
## mean of x mean of y   
## 2.688714 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3235, df = 2.322, p-value = 0.06496  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.163969 1.996526  
## sample estimates:  
## mean of x mean of y   
## 6.730837 21.314558   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3022, df = 2.1891, p-value = 0.0714  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.520677 1.142471  
## sample estimates:  
## mean of x mean of y   
## 2.850437 8.539540   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9307, df = 2.061, p-value = 0.1895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.073548 4.447846  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 4.0641336   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.117, df = 2.4034, p-value = 0.07057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.4606865 0.5348427  
## sample estimates:  
## mean of x mean of y   
## 1.706327 4.669249   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5635, df = 4.7154, p-value = 0.006965  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.368747 -8.498303  
## sample estimates:  
## mean of x mean of y   
## 26.02964 45.96317   
##   
## [1] 0.006964813  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3626, df = 2.9788, p-value = 0.09979  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -101.43462 15.19753  
## sample estimates:  
## mean of x mean of y   
## 29.79843 72.91697   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3257, df = 4.8193, p-value = 0.02207  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.350764 27.353840  
## sample estimates:  
## mean of x mean of y   
## 45.66764 30.31533   
##   
## [1] 0.02206697  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6911, df = 2.7945, p-value = 0.08027  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.3854847 0.4581994  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 2.4840738   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6938, df = 4.2394, p-value = 0.05119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.65142022 0.01885379  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.864141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2547, df = 4.5185, p-value = 0.02616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.895684 -1.003844  
## sample estimates:  
## mean of x mean of y   
## 5.367717 10.817481   
##   
## [1] 0.02615688  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6947, df = 4.2422, p-value = 0.05111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.326242527 0.008744948  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4374583   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4692, df = 3, p-value = 0.04037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.680507 15.784638  
## sample estimates:  
## mean of x mean of y   
## 8.24334773 0.01077537   
##   
## [1] 0.0403694  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4949, df = 3.0572, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.454795 -3.249474  
## sample estimates:  
## mean of x mean of y   
## 10.30045 21.15259   
##   
## [1] 0.01973982  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5537, df = 2.523, p-value = 0.09944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -51.303158 8.384741  
## sample estimates:  
## mean of x mean of y   
## 16.60551 38.06472   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2102, df = 4.8457, p-value = 0.0798  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.26667513 0.02137393  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 1.0883127   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4553, df = 4.9567, p-value = 0.2058  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.241579 4.462349  
## sample estimates:  
## mean of x mean of y   
## 2.729209 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9375, df = 2.0661, p-value = 0.1882  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.126786 8.095892  
## sample estimates:  
## mean of x mean of y   
## 0.7227991 7.7382458   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.928, df = 3, p-value = 0.0611  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.556842 13.371939  
## sample estimates:  
## mean of x mean of y   
## 6.41832393 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.7117, df = 3, p-value = 0.07306  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.263597 15.820528  
## sample estimates:  
## mean of x mean of y   
## 7.28924117 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1552, df = 2.5627, p-value = 0.1354  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.882460 2.127648  
## sample estimates:  
## mean of x mean of y   
## 1.733754 5.111160   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3103, df = 2.2781, p-value = 0.1315  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.021317 2.984808  
## sample estimates:  
## mean of x mean of y   
## 1.261096 5.779351   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1121, df = 4.4807, p-value = 0.01164  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.777967 -1.877738  
## sample estimates:  
## mean of x mean of y   
## 3.682878 9.010730   
##   
## [1] 0.01163565  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.8674, df = 2.1474, p-value = 0.194  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.456616 3.102686  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.9556746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.0026, df = 2, p-value = 0.1831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.398391 1.604440  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.406536514   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
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## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
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## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
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## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
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## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706

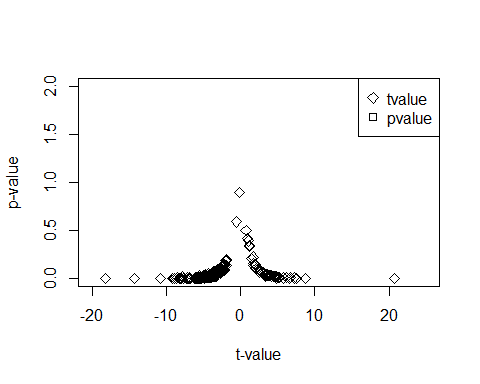
value2 <- 1:300  
for(i in value2){  
 p\_value2 <- two\_sample(i)$p.value  
 sorting\_pval2 <- sort(p\_value2)  
 if(sorting\_pval2 < 0.01){  
 print(sorting\_pval2)  
 }  
}

##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
##   
## [1] 0.0008184531  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
##   
## [1] 0.0008184531  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
## [1] 0.0008242713  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9151, df = 4.2282, p-value = 0.1241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.611031 15.062011  
## sample estimates:  
## mean of x mean of y   
## 25.31412 19.08863   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9693, df = 4.9036, p-value = 0.0003176  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.86345 -12.63046  
## sample estimates:  
## mean of x mean of y   
## 9.232765 26.979719   
##   
## [1] 0.0003175754  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 20.754, df = 3.0003, p-value = 0.0002445  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8084702 1.1013032  
## sample estimates:  
## mean of x mean of y   
## 0.96566207 0.01077537   
##   
## [1] 0.0002445134  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -14.261, df = 4.9145, p-value = 3.463e-05  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.11089 -10.47482  
## sample estimates:  
## mean of x mean of y   
## 1.924195 14.717051   
##   
## [1] 3.463366e-05  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -18.175, df = 3.0106, p-value = 0.0003557  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -20.71227 -14.55017  
## sample estimates:  
## mean of x mean of y   
## 9.636211 27.267432   
##   
## [1] 0.0003557466  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.2618, df = 3.2323, p-value = 0.004174  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.55628 18.54285  
## sample estimates:  
## mean of x mean of y   
## 13.409484 0.359921   
##   
## [1] 0.004173895  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -10.838, df = 4.9819, p-value = 0.0001186  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.31668 -7.59007  
## sample estimates:  
## mean of x mean of y   
## 1.530245 11.483618   
##   
## [1] 0.0001186291  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7301, df = 4.05, p-value = 0.001433  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -54.98312 -26.02753  
## sample estimates:  
## mean of x mean of y   
## 19.84836 60.35369   
##   
## [1] 0.001433475  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0169, df = 4.0256, p-value = 0.01571  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.095509 -2.039409  
## sample estimates:  
## mean of x mean of y   
## 8.211025 14.778484   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7787, df = 3, p-value = 0.003114  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 16.47296 35.20841  
## sample estimates:  
## mean of x mean of y   
## 25.85146055 0.01077537   
##   
## [1] 0.003113537  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2898, df = 3.3868, p-value = 0.01816  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.939703 -5.900645  
## sample estimates:  
## mean of x mean of y   
## 19.53573 38.95591   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9084, df = 3.5906, p-value = 0.005732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.987934 -9.193381  
## sample estimates:  
## mean of x mean of y   
## 7.524222 25.614880   
##   
## [1] 0.005731903  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.954, df = 4.9403, p-value = 0.001991  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.916994 -4.711586  
## sample estimates:  
## mean of x mean of y   
## 3.929463 12.243753   
##   
## [1] 0.001991018  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.2403, df = 3.7544, p-value = 0.002455  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.89420 -13.87917  
## sample estimates:  
## mean of x mean of y   
## 22.00059 44.88727   
##   
## [1] 0.002455066  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9298, df = 4.9369, p-value = 0.0003132  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.775282 -4.288987  
## sample estimates:  
## mean of x mean of y   
## 1.490891 7.523025   
##   
## [1] 0.0003131509  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0199, df = 4.1811, p-value = 0.006569  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.413335 -1.304296  
## sample estimates:  
## mean of x mean of y   
## 2.190912 5.049727   
##   
## [1] 0.006569364  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9251, df = 2.5758, p-value = 0.03863  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.6671164 -0.3240827  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 3.2743090   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7549, df = 3.6941, p-value = 0.001335  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 18.67045 36.87635  
## sample estimates:  
## mean of x mean of y   
## 28.83038 1.05698   
##   
## [1] 0.001334705  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6951, df = 2.1528, p-value = 0.05898  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.6678136 0.6652439  
## sample estimates:  
## mean of x mean of y   
## 3.376807 10.878092   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.923, df = 4.8608, p-value = 0.0003401  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.329280 -6.227551  
## sample estimates:  
## mean of x mean of y   
## 5.558158 14.336573   
##   
## [1] 0.0003401205  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8832, df = 2.4688, p-value = 0.04258  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7399919 -0.2484009  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.0027007   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7589, df = 3.7897, p-value = 0.003029  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.367204 -7.094773  
## sample estimates:  
## mean of x mean of y   
## 13.98942 26.22041   
##   
## [1] 0.003029385  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.8869, df = 3.7846, p-value = 0.001137  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.44312 -2.29113  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.5921222   
##   
## [1] 0.001137268  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8673, df = 3, p-value = 0.01657  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.6664644 3.1842286  
## sample estimates:  
## mean of x mean of y   
## 1.93612183 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8615, df = 2.4887, p-value = 0.04253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7164135 -0.2481256  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 4.0027007   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.6073, df = 2.5174, p-value = 0.09566  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3865073 2.5088269  
## sample estimates:  
## mean of x mean of y   
## 2.877864 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -9.2244, df = 3.6116, p-value = 0.001227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.613042 -1.885441  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 3.2433873   
##   
## [1] 0.001226612  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.6139, df = 3.1092, p-value = 0.002865  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.204573 -4.309508  
## sample estimates:  
## mean of x mean of y   
## 3.618529 10.375570   
##   
## [1] 0.002864557  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.5503, df = 2.3566, p-value = 0.007957  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.948912 -1.547702  
## sample estimates:  
## mean of x mean of y   
## 1.921763 4.670070   
##   
## [1] 0.007956933  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5587, df = 3.1886, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.8435578 -0.7448902  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5455067   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3108, df = 4.6435, p-value = 0.003939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -67.72317 -22.85059  
## sample estimates:  
## mean of x mean of y   
## 52.40260 97.68948   
##   
## [1] 0.003939033  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.1923, df = 3.0977, p-value = 0.004973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -56.63033 -22.31412  
## sample estimates:  
## mean of x mean of y   
## 40.85173 80.32396   
##   
## [1] 0.004973415  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6167, df = 2.6505, p-value = 0.01542  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.033293 -3.144041  
## sample estimates:  
## mean of x mean of y   
## 5.262724 13.351391   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5456, df = 2.1956, p-value = 0.062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.349838 1.057106  
## sample estimates:  
## mean of x mean of y   
## 2.112204 11.258570   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.069, df = 3.3829, p-value = 0.002529  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.182336 -7.895619  
## sample estimates:  
## mean of x mean of y   
## 11.84499 24.38397   
##   
## [1] 0.002528533  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.8602, df = 3.177, p-value = 0.005263  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -39.66509 -15.05986  
## sample estimates:  
## mean of x mean of y   
## 22.82095 50.18343   
##   
## [1] 0.005263201  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.166, df = 3.6172, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.630718 -1.192107  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 4.7009919   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3671, df = 2.3563, p-value = 0.02285  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.221989 -1.832186  
## sample estimates:  
## mean of x mean of y   
## 1.464605 7.491693   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3215, df = 4.0742, p-value = 0.02854  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2474015 2.6622563  
## sample estimates:  
## mean of x mean of y   
## 2.1634848 0.7086559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.138, df = 4.5135, p-value = 0.0112  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.313748 -2.467506  
## sample estimates:  
## mean of x mean of y   
## 3.228152 10.118779   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.1923, df = 4.5485, p-value = 0.0006853  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.439062 -2.269594  
## sample estimates:  
## mean of x mean of y   
## 2.393280 5.747607   
##   
## [1] 0.0006853413  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.2022, df = 3.644, p-value = 0.01661  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 1.314941 7.086169  
## sample estimates:  
## mean of x mean of y   
## 5.986748 1.786193   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.2597, df = 4.8807, p-value = 0.001665  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.26449 -15.04001  
## sample estimates:  
## mean of x mean of y   
## 19.08329 44.73554   
##   
## [1] 0.001665223  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6552, df = 2.5877, p-value = 0.04506  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4597543 -0.1267088  
## sample estimates:  
## mean of x mean of y   
## 0.4810775 3.2743090   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.676, df = 2, p-value = 0.06668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6139059 0.3623502  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.135338847   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0175, df = 4.076, p-value = 0.003616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -29.63556 -11.01603  
## sample estimates:  
## mean of x mean of y   
## 8.943336 29.269129   
##   
## [1] 0.003615563  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.1267, df = 4.3787, p-value = 0.002662  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.652679 -3.380589  
## sample estimates:  
## mean of x mean of y   
## 1.506391 7.523025   
##   
## [1] 0.002661505  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2782, df = 3.3052, p-value = 0.01925  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.404987 -3.853719  
## sample estimates:  
## mean of x mean of y   
## 5.292732 18.422085   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9263, df = 3.5211, p-value = 0.136  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.001606 3.933143  
## sample estimates:  
## mean of x mean of y   
## 34.47040 42.00463   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9604, df = 3.7771, p-value = 0.008928  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.991227 -2.712200  
## sample estimates:  
## mean of x mean of y   
## 2.218338 8.570052   
##   
## [1] 0.008927515  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.528, df = 3.428, p-value = 0.003015  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 6.375522 14.679710  
## sample estimates:  
## mean of x mean of y   
## 11.2667830 0.7391671   
##   
## [1] 0.003014644  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7107, df = 2, p-value = 0.06556  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3437685 0.3947429  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.484073813   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.527, df = 3.4875, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.5387808 -0.7492506  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.894242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2704, df = 2.9258, p-value = 0.02478  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.5327356 -0.9075642  
## sample estimates:  
## mean of x mean of y   
## 0.9800208 4.7001707   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3333, df = 3.0978, p-value = 0.02122  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6554731 -0.7532706  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.2128761   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6296, df = 2.4209, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.17019198 0.05018906  
## sample estimates:  
## mean of x mean of y   
## 3.361308 9.421309   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.5257, df = 4.9962, p-value = 0.001267  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 68.81757 158.30475  
## sample estimates:  
## mean of x mean of y   
## 157.86133 44.30017   
##   
## [1] 0.001267388  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.1679, df = 3, p-value = 0.02514  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 4.825507 35.991634  
## sample estimates:  
## mean of x mean of y   
## 20.41934585 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.0249, df = 4.9857, p-value = 0.0009125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.710692 -2.185161  
## sample estimates:  
## mean of x mean of y   
## 3.376807 6.824734   
##   
## [1] 0.000912545  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5237, df = 2.2036, p-value = 0.06241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.175512 0.515656  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 4.6086373   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0281, df = 2.2296, p-value = 0.08218  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.4474036 0.9416328  
## sample estimates:  
## mean of x mean of y   
## 0.750226 4.003111   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6632, df = 2.502, p-value = 0.02751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3301436 -0.7058154  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.2429766   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.438, df = 4.2248, p-value = 0.004735  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.688947 -4.229321  
## sample estimates:  
## mean of x mean of y   
## 6.258328 14.717462   
##   
## [1] 0.004735216  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6182, df = 4.5499, p-value = 0.007252  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1573957 -0.8555868  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 2.5149956   
##   
## [1] 0.007251525  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.108, df = 2.2942, p-value = 0.07539  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.03790 1.02476  
## sample estimates:  
## mean of x mean of y   
## 0.9537352 5.4603054   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.7707, df = 3, p-value = 0.0175  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.208811 26.082816  
## sample estimates:  
## mean of x mean of y   
## 15.65658885 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3, df = 3.4505, p-value = 0.01734  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.108295 -1.312166  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 4.9878834   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.4936, df = 3, p-value = 0.02057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.269953 13.289264  
## sample estimates:  
## mean of x mean of y   
## 7.79038392 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0003, df = 3.5242, p-value = 0.01037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -28.797734 -7.514687  
## sample estimates:  
## mean of x mean of y   
## 12.02520 30.18141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9081, df = 4.8772, p-value = 0.004751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -61.07196 -18.87933  
## sample estimates:  
## mean of x mean of y   
## 36.18785 76.16349   
##   
## [1] 0.004751128  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6013, df = 4.9944, p-value = 0.002515  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.256841 -3.060995  
## sample estimates:  
## mean of x mean of y   
## 3.351813 9.010730   
##   
## [1] 0.002514739  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2198, df = 4.5353, p-value = 0.0103  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.709514 -3.356404  
## sample estimates:  
## mean of x mean of y   
## 3.970107 13.003066   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1568, df = 2, p-value = 0.08739  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.672258 1.024941  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.833219418   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1165, df = 3.7767, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 13.79175 48.26764  
## sample estimates:  
## mean of x mean of y   
## 37.412519 6.382823   
##   
## [1] 0.00804412  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2135, df = 3.0535, p-value = 0.04763  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.0300464 -0.3532739  
## sample estimates:  
## mean of x mean of y   
## 14.36128 32.55294   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1775, df = 3.9205, p-value = 0.006989  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.120381 -1.825218  
## sample estimates:  
## mean of x mean of y   
## 1.425252 5.398051   
##   
## [1] 0.006988707  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.0211, df = 3, p-value = 0.02762  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4887075 4.1975936  
## sample estimates:  
## mean of x mean of y   
## 2.35392594 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1282, df = 2.8668, p-value = 0.02813  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.782453 -0.905427  
## sample estimates:  
## mean of x mean of y   
## 0.9930889 5.3370290   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.4967, df = 4.093, p-value = 0.06559  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.2374211 4.8866647  
## sample estimates:  
## mean of x mean of y   
## 4.141326 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1551, df = 4.3471, p-value = 0.005348  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.590951 11.435051  
## sample estimates:  
## mean of x mean of y   
## 10.37632 2.86332   
##   
## [1] 0.005348363  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.58908, df = 3.9596, p-value = 0.5878  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.164525 4.664779  
## sample estimates:  
## mean of x mean of y   
## 16.06334 17.31322   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1875, df = 2.7132, p-value = 0.03016  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.884664 -1.265676  
## sample estimates:  
## mean of x mean of y   
## 1.963549 8.538719   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.2351, df = 3.5558, p-value = 0.00875  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.860455 -2.801172  
## sample estimates:  
## mean of x mean of y   
## 6.579898 12.910712   
##   
## [1] 0.008750104  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.6393, df = 3.0181, p-value = 0.01862  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.324417 49.624989  
## sample estimates:  
## mean of x mean of y   
## 29.8342136 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9898, df = 3.3859, p-value = 0.01153  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.785366 -3.963963  
## sample estimates:  
## mean of x mean of y   
## 7.376708 17.251372   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4671, df = 2, p-value = 0.1324  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.043501 1.909767  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.576428461   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.759, df = 3.9181, p-value = 0.002692  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.241987 -9.213455  
## sample estimates:  
## mean of x mean of y   
## 14.01342 29.74114   
##   
## [1] 0.002691653  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3172, df = 4.2731, p-value = 0.02668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.940026 -2.016521  
## sample estimates:  
## mean of x mean of y   
## 14.98616 25.96444   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7087, df = 4.6917, p-value = 0.002831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.711900 -8.043898  
## sample estimates:  
## mean of x mean of y   
## 9.413712 24.291611   
##   
## [1] 0.002830549  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0189, df = 4.9979, p-value = 0.01014  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.256104 -2.473291  
## sample estimates:  
## mean of x mean of y   
## 4.680764 11.545462   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9406, df = 2.6396, p-value = 0.07079  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.2176438 0.9615601  
## sample estimates:  
## mean of x mean of y   
## 2.716140 8.344182   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5194, df = 3.0038, p-value = 0.03886  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.235604 -0.366333  
## sample estimates:  
## mean of x mean of y   
## 1.249169 5.050138   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.648, df = 3.0219, p-value = 0.03512  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.861331 111.993154  
## sample estimates:  
## mean of x mean of y   
## 117.23241 57.30516   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.9728, df = 3.8735, p-value = 0.001533  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.792710 -3.249936  
## sample estimates:  
## mean of x mean of y   
## 2.850437 7.871760   
##   
## [1] 0.001532688  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3628, df = 2.6856, p-value = 0.02786  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.194272 -2.246173  
## sample estimates:  
## mean of x mean of y   
## 4.373553 14.593775   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.2426, df = 3, p-value = 0.01351  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8309285 3.3980656  
## sample estimates:  
## mean of x mean of y   
## 2.12527240 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.8539, df = 3, p-value = 0.03086  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4103326 4.2998222  
## sample estimates:  
## mean of x mean of y   
## 2.36585279 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5258, df = 4.8711, p-value = 0.002887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.982371 -3.970549  
## sample estimates:  
## mean of x mean of y   
## 7.968162 15.444622   
##   
## [1] 0.002886502  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9306, df = 4.357, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.909829 -3.171693  
## sample estimates:  
## mean of x mean of y   
## 5.117791 15.158552   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5425, df = 4.0905, p-value = 0.009944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.598525 -1.864653  
## sample estimates:  
## mean of x mean of y   
## 2.852869 7.584458   
##   
## [1] 0.009943772  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1271, df = 2, p-value = 0.08884  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.925013 1.728503  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 4.607816009   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3257, df = 2, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.23861 1.56248  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.847626128   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0225, df = 3.7517, p-value = 0.01797  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4733648 -0.9333939  
## sample estimates:  
## mean of x mean of y   
## 0.7382991 3.9416785   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.1526, df = 3, p-value = 0.008639  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.747959 30.637047  
## sample estimates:  
## mean of x mean of y   
## 20.20327830 0.01077537   
##   
## [1] 0.00863878  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.6651, df = 3.2455, p-value = 0.005359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 213.5185 573.9180  
## sample estimates:  
## mean of x mean of y   
## 466.50352 72.78528   
##   
## [1] 0.005358808  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9476, df = 2.3515, p-value = 0.02747  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.540247 -1.046663  
## sample estimates:  
## mean of x mean of y   
## 1.422820 5.716275   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9807, df = 4.976, p-value = 0.01062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.62163 -3.78086  
## sample estimates:  
## mean of x mean of y   
## 10.19373 20.89497   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9656, df = 3.0262, p-value = 0.01537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -144.99432 -32.06845  
## sample estimates:  
## mean of x mean of y   
## 109.0281 197.5595   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5267, df = 3.3976, p-value = 0.03172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.9117250 -0.2437934  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 1.8171150   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.89637, df = 4.2394, p-value = 0.418  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.289749 2.560645  
## sample estimates:  
## mean of x mean of y   
## 3.848324 3.212876   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4111, df = 3, p-value = 0.04212  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2772148 7.9936141  
## sample estimates:  
## mean of x mean of y   
## 4.14618983 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5091, df = 3.36, p-value = 0.008682  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1859911 -0.6452569  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.165850   
##   
## [1] 0.008682335  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4178, df = 4.0661, p-value = 0.01111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.602545 -1.295178  
## sample estimates:  
## mean of x mean of y   
## 1.949190 5.398051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.781, df = 4.8261, p-value = 0.1371  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3344544 1.7914805  
## sample estimates:  
## mean of x mean of y   
## 3.592244 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6167, df = 4.3949, p-value = 0.01908  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6248494 -0.3901181  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.7861932   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.413, df = 3.0274, p-value = 0.02119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 11.15688 67.82137  
## sample estimates:  
## mean of x mean of y   
## 40.546513 1.057391   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1972, df = 2.3365, p-value = 0.0696  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.350108 2.617784  
## sample estimates:  
## mean of x mean of y   
## 9.762303 24.628465   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2313, df = 2.4115, p-value = 0.06527  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.585273 0.418858  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.5917116   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3053, df = 4.4972, p-value = 0.02501  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.8651261 -0.5267538  
## sample estimates:  
## mean of x mean of y   
## 0.547858 3.243798   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0049, df = 3.2966, p-value = 0.02338  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.318174 -1.853273  
## sample estimates:  
## mean of x mean of y   
## 3.456805 11.042529   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6134, df = 3.6691, p-value = 0.01216  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.401593 -3.799476  
## sample estimates:  
## mean of x mean of y   
## 7.027561 17.128096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6147, df = 3.0089, p-value = 0.01902  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -40.172746 -7.411542  
## sample estimates:  
## mean of x mean of y   
## 21.03411 44.82625   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2002, df = 2.5034, p-value = 0.06328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.3842989 0.5688978  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 5.6853533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2647, df = 4.4788, p-value = 0.02623  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1962632 -0.6286748  
## sample estimates:  
## mean of x mean of y   
## 1.288523 4.700992   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.5321, df = 3.1136, p-value = 0.01855  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.607962 19.514966  
## sample estimates:  
## mean of x mean of y   
## 12.2701200 0.7086559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9671, df = 3.3773, p-value = 0.006673  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -90.26851 -29.99657  
## sample estimates:  
## mean of x mean of y   
## 81.29159 141.42413   
##   
## [1] 0.006672768  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9167, df = 4.402, p-value = 0.006198  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.159101 -1.225097  
## sample estimates:  
## mean of x mean of y   
## 1.249169 3.941268   
##   
## [1] 0.006197617  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8373, df = 2.791, p-value = 0.07159  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0973167 0.3222145  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7057, df = 2.4531, p-value = 0.09139  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.5782504 0.6642398  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1963611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7385, df = 2.1561, p-value = 0.1028  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.242859 4.399882  
## sample estimates:  
## mean of x mean of y   
## 5.479451 14.900939   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7689, df = 3.02, p-value = 0.03232  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.620269 41.991430  
## sample estimates:  
## mean of x mean of y   
## 23.1653599 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.521, df = 4.9255, p-value = 0.01733  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.498057 -1.768365  
## sample estimates:  
## mean of x mean of y   
## 7.066915 13.700126   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6909, df = 2.8121, p-value = 0.07974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -74.736005 7.667914  
## sample estimates:  
## mean of x mean of y   
## 17.96488 51.49892   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8695, df = 4.995, p-value = 0.004607  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.42387 17.56109  
## sample estimates:  
## mean of x mean of y   
## 16.449443 4.956962   
##   
## [1] 0.004607076  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6549, df = 2.3033, p-value = 0.1013  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.582919 1.348026  
## sample estimates:  
## mean of x mean of y   
## 1.234811 4.352257   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.8058, df = 3.8836, p-value = 0.004795  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 378.1008 1087.2066  
## sample estimates:  
## mean of x mean of y   
## 913.5699 180.9162   
##   
## [1] 0.004795147  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0161, df = 2.6097, p-value = 0.0358  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.916496 -2.842371  
## sample estimates:  
## mean of x mean of y   
## 12.57616 33.45559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.724, df = 2.0699, p-value = 0.2226  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8587677 2.0710712  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5187, df = 2.0461, p-value = 0.1253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.232154 5.339316  
## sample estimates:  
## mean of x mean of y   
## 1.476532 9.422952   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4066, df = 4.8059, p-value = 0.007652  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.615335 -2.218126  
## sample estimates:  
## mean of x mean of y   
## 5.369008 10.785738   
##   
## [1] 0.007652041  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4471, df = 2.2792, p-value = 0.06201  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.618837 1.258151  
## sample estimates:  
## mean of x mean of y   
## 4.841347 16.021690   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9638, df = 2.5761, p-value = 0.07172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.2025197 0.3487102  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7595, df = 4.7376, p-value = 0.001328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -52.65752 -23.28813  
## sample estimates:  
## mean of x mean of y   
## 33.60674 71.57956   
##   
## [1] 0.001328285  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.0743, df = 4.0847, p-value = 0.1053  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.340553 9.524325  
## sample estimates:  
## mean of x mean of y   
## 10.157717 6.065831   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7936, df = 4.413, p-value = 0.01603  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.9500627 -0.6816825  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8862, df = 4.1273, p-value = 0.01672  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.45750 -6.63193  
## sample estimates:  
## mean of x mean of y   
## 24.20992 46.75464   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7648, df = 3.2806, p-value = 0.008078  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.5514750 -0.7919337  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 2.1658500   
##   
## [1] 0.008078322  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5458, df = 4.9182, p-value = 0.002757  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.120285 -6.238587  
## sample estimates:  
## mean of x mean of y   
## 10.13888 21.81831   
##   
## [1] 0.002757491  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7053, df = 3.0297, p-value = 0.03359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.68192 34.09062  
## sample estimates:  
## mean of x mean of y   
## 18.7457785 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0471, df = 2.637, p-value = 0.06563  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0396713 0.2477052  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1353388   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1596, df = 4.0283, p-value = 0.09645  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.402041 1.285711  
## sample estimates:  
## mean of x mean of y   
## 16.65421 21.21238   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4127, df = 2.4657, p-value = 0.05642  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4976417 0.1548532  
## sample estimates:  
## mean of x mean of y   
## 1.680041 4.351436   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9873, df = 2.8579, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.582019 2.380068  
## sample estimates:  
## mean of x mean of y   
## 2.366994 1.467969   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1035, df = 3.3677, p-value = 0.04552  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1328889 -0.1094653  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 3.9107567   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1139, df = 3.8202, p-value = 0.007818  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.774393 -1.949026  
## sample estimates:  
## mean of x mean of y   
## 1.385898 5.747607   
##   
## [1] 0.007818016  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5502, df = 3.2245, p-value = 0.0339  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.835912 -0.654282  
## sample estimates:  
## mean of x mean of y   
## 0.9406671 5.6857639   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1489, df = 3, p-value = 0.05131  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.03013773 5.69047175  
## sample estimates:  
## mean of x mean of y   
## 2.84094238 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8414, df = 2.7945, p-value = 0.07125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0905734 0.3171137  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1654393   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1853, df = 2.5651, p-value = 0.334  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.814505 3.664305  
## sample estimates:  
## mean of x mean of y   
## 2.39328 1.46838   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2299, df = 2.1209, p-value = 0.1483  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.599775 5.738131  
## sample estimates:  
## mean of x mean of y   
## 2.931577 9.862399   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1123, df = 3, p-value = 0.05279  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.0606365 5.4403667  
## sample estimates:  
## mean of x mean of y   
## 2.70064048 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.536, df = 4.9766, p-value = 0.006262  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.096352 -4.441143  
## sample estimates:  
## mean of x mean of y   
## 9.743636 20.012383   
##   
## [1] 0.006262323  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.797, df = 3.6459, p-value = 0.1537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.4951018 2.1290050  
## sample estimates:  
## mean of x mean of y   
## 1.2073837 0.3904321   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.407, df = 2.5181, p-value = 0.1117  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.062847 3.095966  
## sample estimates:  
## mean of x mean of y   
## 2.27091 8.75435   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8545, df = 3.3838, p-value = 0.02484  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.451078 -1.577389  
## sample estimates:  
## mean of x mean of y   
## 5.260442 12.274675   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7191, df = 4.2588, p-value = 0.007866  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.259067 -5.745032  
## sample estimates:  
## mean of x mean of y   
## 11.22983 24.73188   
##   
## [1] 0.007866115  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.546, df = 3.014, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.164686 -2.517241  
## sample estimates:  
## mean of x mean of y   
## 6.283323 14.624286   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.873, df = 4.1312, p-value = 0.002084  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -50.19618 -21.56625  
## sample estimates:  
## mean of x mean of y   
## 51.03001 86.91123   
##   
## [1] 0.002084322  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0515, df = 2.6394, p-value = 0.06535  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0343946 0.2432498  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1349282   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8686, df = 2.7788, p-value = 0.07023  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -47.850953 3.566437  
## sample estimates:  
## mean of x mean of y   
## 23.08392 45.22618   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.667, df = 2.0722, p-value = 0.06347  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.708993 1.119928  
## sample estimates:  
## mean of x mean of y   
## 3.794612 12.089144   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7722, df = 4.7526, p-value = 0.002591  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.72067 -10.07444  
## sample estimates:  
## mean of x mean of y   
## 18.06519 36.46274   
##   
## [1] 0.002591424  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3193, df = 4.9934, p-value = 0.007599  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.555698 -5.720548  
## sample estimates:  
## mean of x mean of y   
## 12.65730 26.79542   
##   
## [1] 0.007598689  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6783, df = 3.6398, p-value = 0.06113  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.9390316 0.1862899  
## sample estimates:  
## mean of x mean of y   
## 1.975475 4.351846   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.4752, df = 4.1848, p-value = 0.004746  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.323970 -6.469136  
## sample estimates:  
## mean of x mean of y   
## 17.57339 30.46994   
##   
## [1] 0.004745802  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3712, df = 3.6497, p-value = 0.03224  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.5308599 6.8273510  
## sample estimates:  
## mean of x mean of y   
## 4.0386158 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1615, df = 2.6668, p-value = 0.3388  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.926498 3.908267  
## sample estimates:  
## mean of x mean of y   
## 2.838511 1.847626   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6513, df = 4.2962, p-value = 0.003887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -24.927487 -8.798864  
## sample estimates:  
## mean of x mean of y   
## 18.58305 35.44623   
##   
## [1] 0.003887021  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7569, df = 4.273, p-value = 0.04743  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.434664 -0.138448  
## sample estimates:  
## mean of x mean of y   
## 4.519041 12.305597   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.8823, df = 3.1534, p-value = 0.05973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04195945 1.17056343  
## sample estimates:  
## mean of x mean of y   
## 1.652615 1.088313   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1768, df = 2.2175, p-value = 0.1488  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.514993 1.864702  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5764285   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3292, df = 4.9655, p-value = 0.02102  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.721807 -1.495167  
## sample estimates:  
## mean of x mean of y   
## 9.247124 15.855611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.8448, df = 4.781, p-value = 0.002409  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -64.23331 -24.61333  
## sample estimates:  
## mean of x mean of y   
## 50.39088 94.81420   
##   
## [1] 0.002409338  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3751, df = 3.028, p-value = 0.02168  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.216131 -3.081283  
## sample estimates:  
## mean of x mean of y   
## 7.878083 19.026790   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4209, df = 3.6436, p-value = 0.07895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6074255 0.2289057  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4679694   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2839, df = 2.0924, p-value = 0.1442  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.399588 3.562874  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.9268611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.14198, df = 4.0228, p-value = 0.8939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.89387 14.34409  
## sample estimates:  
## mean of x mean of y   
## 66.08641 66.86130   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.0614, df = 2.2319, p-value = 0.3897  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.327303 5.814371  
## sample estimates:  
## mean of x mean of y   
## 2.393280 1.149746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6328, df = 3.3691, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1900578 -0.6699076  
## sample estimates:  
## mean of x mean of y   
## 0.7358673 2.1658500   
##   
## [1] 0.008044476  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4638, df = 4.7147, p-value = 0.2065  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.196670 4.231716  
## sample estimates:  
## mean of x mean of y   
## 4.062619 2.545096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0687, df = 4.3833, p-value = 0.002755  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.671900 -2.967672  
## sample estimates:  
## mean of x mean of y   
## 4.357904 9.677689   
##   
## [1] 0.002754599  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.73344, df = 4.5404, p-value = 0.4994  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.712915 3.023351  
## sample estimates:  
## mean of x mean of y   
## 3.200725 2.545507   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.6999, df = 4.766, p-value = 0.1528  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8395486 3.9793283  
## sample estimates:  
## mean of x mean of y   
## 2.688714 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3235, df = 2.322, p-value = 0.06496  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.163969 1.996526  
## sample estimates:  
## mean of x mean of y   
## 6.730837 21.314558   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3022, df = 2.1891, p-value = 0.0714  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.520677 1.142471  
## sample estimates:  
## mean of x mean of y   
## 2.850437 8.539540   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9307, df = 2.061, p-value = 0.1895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.073548 4.447846  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 4.0641336   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.117, df = 2.4034, p-value = 0.07057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.4606865 0.5348427  
## sample estimates:  
## mean of x mean of y   
## 1.706327 4.669249   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5635, df = 4.7154, p-value = 0.006965  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.368747 -8.498303  
## sample estimates:  
## mean of x mean of y   
## 26.02964 45.96317   
##   
## [1] 0.006964813  
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3626, df = 2.9788, p-value = 0.09979  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -101.43462 15.19753  
## sample estimates:  
## mean of x mean of y   
## 29.79843 72.91697   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3257, df = 4.8193, p-value = 0.02207  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.350764 27.353840  
## sample estimates:  
## mean of x mean of y   
## 45.66764 30.31533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6911, df = 2.7945, p-value = 0.08027  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.3854847 0.4581994  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 2.4840738   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6938, df = 4.2394, p-value = 0.05119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.65142022 0.01885379  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.864141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2547, df = 4.5185, p-value = 0.02616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.895684 -1.003844  
## sample estimates:  
## mean of x mean of y   
## 5.367717 10.817481   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6947, df = 4.2422, p-value = 0.05111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.326242527 0.008744948  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4374583   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4692, df = 3, p-value = 0.04037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.680507 15.784638  
## sample estimates:  
## mean of x mean of y   
## 8.24334773 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4949, df = 3.0572, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.454795 -3.249474  
## sample estimates:  
## mean of x mean of y   
## 10.30045 21.15259   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5537, df = 2.523, p-value = 0.09944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -51.303158 8.384741  
## sample estimates:  
## mean of x mean of y   
## 16.60551 38.06472   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2102, df = 4.8457, p-value = 0.0798  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.26667513 0.02137393  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 1.0883127   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4553, df = 4.9567, p-value = 0.2058  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.241579 4.462349  
## sample estimates:  
## mean of x mean of y   
## 2.729209 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9375, df = 2.0661, p-value = 0.1882  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.126786 8.095892  
## sample estimates:  
## mean of x mean of y   
## 0.7227991 7.7382458   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.928, df = 3, p-value = 0.0611  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.556842 13.371939  
## sample estimates:  
## mean of x mean of y   
## 6.41832393 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.7117, df = 3, p-value = 0.07306  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.263597 15.820528  
## sample estimates:  
## mean of x mean of y   
## 7.28924117 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1552, df = 2.5627, p-value = 0.1354  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.882460 2.127648  
## sample estimates:  
## mean of x mean of y   
## 1.733754 5.111160   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3103, df = 2.2781, p-value = 0.1315  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.021317 2.984808  
## sample estimates:  
## mean of x mean of y   
## 1.261096 5.779351   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1121, df = 4.4807, p-value = 0.01164  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.777967 -1.877738  
## sample estimates:  
## mean of x mean of y   
## 3.682878 9.010730   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.8674, df = 2.1474, p-value = 0.194  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.456616 3.102686  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.9556746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.0026, df = 2, p-value = 0.1831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.398391 1.604440  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.406536514   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
##   
##   
## Welch Two Sample t-test  
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## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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# 5) Extract the t value from the t-test and generate a plot of p-value

# vs. t value. Please put p-value as the y-axis and t value as the x-axis.

#dev.off()  
plot(x=NA,y=NA, xlim=c(-20,25), ylim=c(0,2),xlab="t-value",ylab="p-value")  
legend("topright",c("tvalue","pvalue"), pch=c(5,0))  
#par(mar=c(1,1,1,1))  
numb <- 1:300  
for(point in numb){  
 tpoint <- two\_sample(point)$statistic  
 ppoint <- two\_sample(point)$p.value  
 points(x=tpoint, y=ppoint, pch=c(5,0))  
}



##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
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## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
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## t = -34.922, df = 2.0002, p-value = 0.0008185  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.421932 -1.890646  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.165849971   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -34.766, df = 2.0009, p-value = 0.0008243  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.2122037 -0.9452996  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.088312672   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9151, df = 4.2282, p-value = 0.1241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.611031 15.062011  
## sample estimates:  
## mean of x mean of y   
## 25.31412 19.08863   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9151, df = 4.2282, p-value = 0.1241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.611031 15.062011  
## sample estimates:  
## mean of x mean of y   
## 25.31412 19.08863   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9693, df = 4.9036, p-value = 0.0003176  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.86345 -12.63046  
## sample estimates:  
## mean of x mean of y   
## 9.232765 26.979719   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9693, df = 4.9036, p-value = 0.0003176  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.86345 -12.63046  
## sample estimates:  
## mean of x mean of y   
## 9.232765 26.979719   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 20.754, df = 3.0003, p-value = 0.0002445  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8084702 1.1013032  
## sample estimates:  
## mean of x mean of y   
## 0.96566207 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 20.754, df = 3.0003, p-value = 0.0002445  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8084702 1.1013032  
## sample estimates:  
## mean of x mean of y   
## 0.96566207 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -14.261, df = 4.9145, p-value = 3.463e-05  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.11089 -10.47482  
## sample estimates:  
## mean of x mean of y   
## 1.924195 14.717051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -14.261, df = 4.9145, p-value = 3.463e-05  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.11089 -10.47482  
## sample estimates:  
## mean of x mean of y   
## 1.924195 14.717051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -18.175, df = 3.0106, p-value = 0.0003557  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -20.71227 -14.55017  
## sample estimates:  
## mean of x mean of y   
## 9.636211 27.267432   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -18.175, df = 3.0106, p-value = 0.0003557  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -20.71227 -14.55017  
## sample estimates:  
## mean of x mean of y   
## 9.636211 27.267432   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.2618, df = 3.2323, p-value = 0.004174  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.55628 18.54285  
## sample estimates:  
## mean of x mean of y   
## 13.409484 0.359921   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.2618, df = 3.2323, p-value = 0.004174  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.55628 18.54285  
## sample estimates:  
## mean of x mean of y   
## 13.409484 0.359921   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -10.838, df = 4.9819, p-value = 0.0001186  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.31668 -7.59007  
## sample estimates:  
## mean of x mean of y   
## 1.530245 11.483618   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -10.838, df = 4.9819, p-value = 0.0001186  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.31668 -7.59007  
## sample estimates:  
## mean of x mean of y   
## 1.530245 11.483618   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7301, df = 4.05, p-value = 0.001433  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -54.98312 -26.02753  
## sample estimates:  
## mean of x mean of y   
## 19.84836 60.35369   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7301, df = 4.05, p-value = 0.001433  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -54.98312 -26.02753  
## sample estimates:  
## mean of x mean of y   
## 19.84836 60.35369   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.7878, df = 2, p-value = 0.01609  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.889015 -1.121033  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.514584937   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7082, df = 2, p-value = 0.04227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.4594057 -0.1557023  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.817115005   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0169, df = 4.0256, p-value = 0.01571  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.095509 -2.039409  
## sample estimates:  
## mean of x mean of y   
## 8.211025 14.778484   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0169, df = 4.0256, p-value = 0.01571  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.095509 -2.039409  
## sample estimates:  
## mean of x mean of y   
## 8.211025 14.778484   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7787, df = 3, p-value = 0.003114  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 16.47296 35.20841  
## sample estimates:  
## mean of x mean of y   
## 25.85146055 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7787, df = 3, p-value = 0.003114  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 16.47296 35.20841  
## sample estimates:  
## mean of x mean of y   
## 25.85146055 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2898, df = 3.3868, p-value = 0.01816  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.939703 -5.900645  
## sample estimates:  
## mean of x mean of y   
## 19.53573 38.95591   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2898, df = 3.3868, p-value = 0.01816  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.939703 -5.900645  
## sample estimates:  
## mean of x mean of y   
## 19.53573 38.95591   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9084, df = 3.5906, p-value = 0.005732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.987934 -9.193381  
## sample estimates:  
## mean of x mean of y   
## 7.524222 25.614880   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9084, df = 3.5906, p-value = 0.005732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.987934 -9.193381  
## sample estimates:  
## mean of x mean of y   
## 7.524222 25.614880   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.954, df = 4.9403, p-value = 0.001991  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.916994 -4.711586  
## sample estimates:  
## mean of x mean of y   
## 3.929463 12.243753   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.954, df = 4.9403, p-value = 0.001991  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.916994 -4.711586  
## sample estimates:  
## mean of x mean of y   
## 3.929463 12.243753   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.2403, df = 3.7544, p-value = 0.002455  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.89420 -13.87917  
## sample estimates:  
## mean of x mean of y   
## 22.00059 44.88727   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.2403, df = 3.7544, p-value = 0.002455  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.89420 -13.87917  
## sample estimates:  
## mean of x mean of y   
## 22.00059 44.88727   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9298, df = 4.9369, p-value = 0.0003132  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.775282 -4.288987  
## sample estimates:  
## mean of x mean of y   
## 1.490891 7.523025   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.9298, df = 4.9369, p-value = 0.0003132  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.775282 -4.288987  
## sample estimates:  
## mean of x mean of y   
## 1.490891 7.523025   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0199, df = 4.1811, p-value = 0.006569  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.413335 -1.304296  
## sample estimates:  
## mean of x mean of y   
## 2.190912 5.049727   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0199, df = 4.1811, p-value = 0.006569  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.413335 -1.304296  
## sample estimates:  
## mean of x mean of y   
## 2.190912 5.049727   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5512, df = 2, p-value = 0.07096  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.2254209 0.3086041  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.467969400   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5883, df = 2, p-value = 0.03056  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1445168 -0.4087477  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.786193242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9251, df = 2.5758, p-value = 0.03863  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.6671164 -0.3240827  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 3.2743090   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9251, df = 2.5758, p-value = 0.03863  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.6671164 -0.3240827  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 3.2743090   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7549, df = 3.6941, p-value = 0.001335  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 18.67045 36.87635  
## sample estimates:  
## mean of x mean of y   
## 28.83038 1.05698   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 8.7549, df = 3.6941, p-value = 0.001335  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 18.67045 36.87635  
## sample estimates:  
## mean of x mean of y   
## 28.83038 1.05698   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6951, df = 2.1528, p-value = 0.05898  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.6678136 0.6652439  
## sample estimates:  
## mean of x mean of y   
## 3.376807 10.878092   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6951, df = 2.1528, p-value = 0.05898  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.6678136 0.6652439  
## sample estimates:  
## mean of x mean of y   
## 3.376807 10.878092   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.923, df = 4.8608, p-value = 0.0003401  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.329280 -6.227551  
## sample estimates:  
## mean of x mean of y   
## 5.558158 14.336573   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.923, df = 4.8608, p-value = 0.0003401  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.329280 -6.227551  
## sample estimates:  
## mean of x mean of y   
## 5.558158 14.336573   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8832, df = 2.4688, p-value = 0.04258  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7399919 -0.2484009  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.0027007   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8832, df = 2.4688, p-value = 0.04258  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7399919 -0.2484009  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.0027007   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7589, df = 3.7897, p-value = 0.003029  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.367204 -7.094773  
## sample estimates:  
## mean of x mean of y   
## 13.98942 26.22041   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7589, df = 3.7897, p-value = 0.003029  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.367204 -7.094773  
## sample estimates:  
## mean of x mean of y   
## 13.98942 26.22041   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.8869, df = 3.7846, p-value = 0.001137  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.44312 -2.29113  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.5921222   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.8869, df = 3.7846, p-value = 0.001137  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.44312 -2.29113  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.5921222   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8673, df = 3, p-value = 0.01657  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.6664644 3.1842286  
## sample estimates:  
## mean of x mean of y   
## 1.93612183 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8673, df = 3, p-value = 0.01657  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.6664644 3.1842286  
## sample estimates:  
## mean of x mean of y   
## 1.93612183 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8615, df = 2.4887, p-value = 0.04253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7164135 -0.2481256  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 4.0027007   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8615, df = 2.4887, p-value = 0.04253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.7164135 -0.2481256  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 4.0027007   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.6073, df = 2.5174, p-value = 0.09566  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3865073 2.5088269  
## sample estimates:  
## mean of x mean of y   
## 2.877864 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.6073, df = 2.5174, p-value = 0.09566  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3865073 2.5088269  
## sample estimates:  
## mean of x mean of y   
## 2.877864 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -9.2244, df = 3.6116, p-value = 0.001227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.613042 -1.885441  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 3.2433873   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -9.2244, df = 3.6116, p-value = 0.001227  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.613042 -1.885441  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 3.2433873   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.6139, df = 3.1092, p-value = 0.002865  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.204573 -4.309508  
## sample estimates:  
## mean of x mean of y   
## 3.618529 10.375570   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.6139, df = 3.1092, p-value = 0.002865  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.204573 -4.309508  
## sample estimates:  
## mean of x mean of y   
## 3.618529 10.375570   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.5503, df = 2.3566, p-value = 0.007957  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.948912 -1.547702  
## sample estimates:  
## mean of x mean of y   
## 1.921763 4.670070   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.5503, df = 2.3566, p-value = 0.007957  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.948912 -1.547702  
## sample estimates:  
## mean of x mean of y   
## 1.921763 4.670070   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2619, df = 2, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.86944719 0.01365266  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437458276   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5587, df = 3.1886, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.8435578 -0.7448902  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5455067   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5587, df = 3.1886, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.8435578 -0.7448902  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5455067   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3108, df = 4.6435, p-value = 0.003939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -67.72317 -22.85059  
## sample estimates:  
## mean of x mean of y   
## 52.40260 97.68948   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3108, df = 4.6435, p-value = 0.003939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -67.72317 -22.85059  
## sample estimates:  
## mean of x mean of y   
## 52.40260 97.68948   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.1923, df = 3.0977, p-value = 0.004973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -56.63033 -22.31412  
## sample estimates:  
## mean of x mean of y   
## 40.85173 80.32396   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.1923, df = 3.0977, p-value = 0.004973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -56.63033 -22.31412  
## sample estimates:  
## mean of x mean of y   
## 40.85173 80.32396   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6167, df = 2.6505, p-value = 0.01542  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.033293 -3.144041  
## sample estimates:  
## mean of x mean of y   
## 5.262724 13.351391   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6167, df = 2.6505, p-value = 0.01542  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.033293 -3.144041  
## sample estimates:  
## mean of x mean of y   
## 5.262724 13.351391   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5456, df = 2.1956, p-value = 0.062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.349838 1.057106  
## sample estimates:  
## mean of x mean of y   
## 2.112204 11.258570   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5456, df = 2.1956, p-value = 0.062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.349838 1.057106  
## sample estimates:  
## mean of x mean of y   
## 2.112204 11.258570   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.069, df = 3.3829, p-value = 0.002529  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.182336 -7.895619  
## sample estimates:  
## mean of x mean of y   
## 11.84499 24.38397   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.069, df = 3.3829, p-value = 0.002529  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.182336 -7.895619  
## sample estimates:  
## mean of x mean of y   
## 11.84499 24.38397   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.8602, df = 3.177, p-value = 0.005263  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -39.66509 -15.05986  
## sample estimates:  
## mean of x mean of y   
## 22.82095 50.18343   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.8602, df = 3.177, p-value = 0.005263  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -39.66509 -15.05986  
## sample estimates:  
## mean of x mean of y   
## 22.82095 50.18343   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.166, df = 3.6172, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.630718 -1.192107  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 4.7009919   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.166, df = 3.6172, p-value = 0.01732  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.630718 -1.192107  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 4.7009919   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3671, df = 2.3563, p-value = 0.02285  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.221989 -1.832186  
## sample estimates:  
## mean of x mean of y   
## 1.464605 7.491693   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.3671, df = 2.3563, p-value = 0.02285  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.221989 -1.832186  
## sample estimates:  
## mean of x mean of y   
## 1.464605 7.491693   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3215, df = 4.0742, p-value = 0.02854  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2474015 2.6622563  
## sample estimates:  
## mean of x mean of y   
## 2.1634848 0.7086559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3215, df = 4.0742, p-value = 0.02854  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2474015 2.6622563  
## sample estimates:  
## mean of x mean of y   
## 2.1634848 0.7086559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.138, df = 4.5135, p-value = 0.0112  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.313748 -2.467506  
## sample estimates:  
## mean of x mean of y   
## 3.228152 10.118779   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.138, df = 4.5135, p-value = 0.0112  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.313748 -2.467506  
## sample estimates:  
## mean of x mean of y   
## 3.228152 10.118779   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.1923, df = 4.5485, p-value = 0.0006853  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.439062 -2.269594  
## sample estimates:  
## mean of x mean of y   
## 2.393280 5.747607   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -8.1923, df = 4.5485, p-value = 0.0006853  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.439062 -2.269594  
## sample estimates:  
## mean of x mean of y   
## 2.393280 5.747607   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.2022, df = 3.644, p-value = 0.01661  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 1.314941 7.086169  
## sample estimates:  
## mean of x mean of y   
## 5.986748 1.786193   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.2022, df = 3.644, p-value = 0.01661  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 1.314941 7.086169  
## sample estimates:  
## mean of x mean of y   
## 5.986748 1.786193   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.2597, df = 4.8807, p-value = 0.001665  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.26449 -15.04001  
## sample estimates:  
## mean of x mean of y   
## 19.08329 44.73554   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.2597, df = 4.8807, p-value = 0.001665  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.26449 -15.04001  
## sample estimates:  
## mean of x mean of y   
## 19.08329 44.73554   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2742, df = 2, p-value = 0.05062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.864483175 0.009509921  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.437047638   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6552, df = 2.5877, p-value = 0.04506  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4597543 -0.1267088  
## sample estimates:  
## mean of x mean of y   
## 0.4810775 3.2743090   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6552, df = 2.5877, p-value = 0.04506  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4597543 -0.1267088  
## sample estimates:  
## mean of x mean of y   
## 0.4810775 3.2743090   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.676, df = 2, p-value = 0.06668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6139059 0.3623502  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.135338847   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.676, df = 2, p-value = 0.06668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6139059 0.3623502  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.135338847   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0175, df = 4.076, p-value = 0.003616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -29.63556 -11.01603  
## sample estimates:  
## mean of x mean of y   
## 8.943336 29.269129   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0175, df = 4.076, p-value = 0.003616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -29.63556 -11.01603  
## sample estimates:  
## mean of x mean of y   
## 8.943336 29.269129   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.1267, df = 4.3787, p-value = 0.002662  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.652679 -3.380589  
## sample estimates:  
## mean of x mean of y   
## 1.506391 7.523025   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.1267, df = 4.3787, p-value = 0.002662  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.652679 -3.380589  
## sample estimates:  
## mean of x mean of y   
## 1.506391 7.523025   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2782, df = 3.3052, p-value = 0.01925  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.404987 -3.853719  
## sample estimates:  
## mean of x mean of y   
## 5.292732 18.422085   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2782, df = 3.3052, p-value = 0.01925  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.404987 -3.853719  
## sample estimates:  
## mean of x mean of y   
## 5.292732 18.422085   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9263, df = 3.5211, p-value = 0.136  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.001606 3.933143  
## sample estimates:  
## mean of x mean of y   
## 34.47040 42.00463   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9263, df = 3.5211, p-value = 0.136  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.001606 3.933143  
## sample estimates:  
## mean of x mean of y   
## 34.47040 42.00463   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9604, df = 3.7771, p-value = 0.008928  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.991227 -2.712200  
## sample estimates:  
## mean of x mean of y   
## 2.218338 8.570052   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9604, df = 3.7771, p-value = 0.008928  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.991227 -2.712200  
## sample estimates:  
## mean of x mean of y   
## 2.218338 8.570052   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.528, df = 3.428, p-value = 0.003015  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 6.375522 14.679710  
## sample estimates:  
## mean of x mean of y   
## 11.2667830 0.7391671   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 7.528, df = 3.428, p-value = 0.003015  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 6.375522 14.679710  
## sample estimates:  
## mean of x mean of y   
## 11.2667830 0.7391671   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7107, df = 2, p-value = 0.06556  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3437685 0.3947429  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.484073813   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7107, df = 2, p-value = 0.06556  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3437685 0.3947429  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.484073813   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.527, df = 3.4875, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.5387808 -0.7492506  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.894242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.527, df = 3.4875, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.5387808 -0.7492506  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.894242   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2704, df = 2.9258, p-value = 0.02478  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.5327356 -0.9075642  
## sample estimates:  
## mean of x mean of y   
## 0.9800208 4.7001707   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2704, df = 2.9258, p-value = 0.02478  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.5327356 -0.9075642  
## sample estimates:  
## mean of x mean of y   
## 0.9800208 4.7001707   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3333, df = 3.0978, p-value = 0.02122  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6554731 -0.7532706  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.2128761   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3333, df = 3.0978, p-value = 0.02122  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6554731 -0.7532706  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.2128761   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6824, df = 2, p-value = 0.06648  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.6087245 0.3579901  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.134928208   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6296, df = 2.4209, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.17019198 0.05018906  
## sample estimates:  
## mean of x mean of y   
## 3.361308 9.421309   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6296, df = 2.4209, p-value = 0.05089  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.17019198 0.05018906  
## sample estimates:  
## mean of x mean of y   
## 3.361308 9.421309   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.5257, df = 4.9962, p-value = 0.001267  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 68.81757 158.30475  
## sample estimates:  
## mean of x mean of y   
## 157.86133 44.30017   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.5257, df = 4.9962, p-value = 0.001267  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 68.81757 158.30475  
## sample estimates:  
## mean of x mean of y   
## 157.86133 44.30017   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.1679, df = 3, p-value = 0.02514  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 4.825507 35.991634  
## sample estimates:  
## mean of x mean of y   
## 20.41934585 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.1679, df = 3, p-value = 0.02514  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 4.825507 35.991634  
## sample estimates:  
## mean of x mean of y   
## 20.41934585 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.0249, df = 4.9857, p-value = 0.0009125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.710692 -2.185161  
## sample estimates:  
## mean of x mean of y   
## 3.376807 6.824734   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.0249, df = 4.9857, p-value = 0.0009125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.710692 -2.185161  
## sample estimates:  
## mean of x mean of y   
## 3.376807 6.824734   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5237, df = 2.2036, p-value = 0.06241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.175512 0.515656  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 4.6086373   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5237, df = 2.2036, p-value = 0.06241  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.175512 0.515656  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 4.6086373   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0281, df = 2.2296, p-value = 0.08218  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.4474036 0.9416328  
## sample estimates:  
## mean of x mean of y   
## 0.750226 4.003111   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0281, df = 2.2296, p-value = 0.08218  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.4474036 0.9416328  
## sample estimates:  
## mean of x mean of y   
## 0.750226 4.003111   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6632, df = 2.502, p-value = 0.02751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3301436 -0.7058154  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.2429766   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6632, df = 2.502, p-value = 0.02751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.3301436 -0.7058154  
## sample estimates:  
## mean of x mean of y   
## 0.2249971 3.2429766   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.438, df = 4.2248, p-value = 0.004735  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.688947 -4.229321  
## sample estimates:  
## mean of x mean of y   
## 6.258328 14.717462   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.438, df = 4.2248, p-value = 0.004735  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.688947 -4.229321  
## sample estimates:  
## mean of x mean of y   
## 6.258328 14.717462   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6182, df = 4.5499, p-value = 0.007252  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1573957 -0.8555868  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 2.5149956   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6182, df = 4.5499, p-value = 0.007252  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.1573957 -0.8555868  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 2.5149956   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.108, df = 2.2942, p-value = 0.07539  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.03790 1.02476  
## sample estimates:  
## mean of x mean of y   
## 0.9537352 5.4603054   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.108, df = 2.2942, p-value = 0.07539  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.03790 1.02476  
## sample estimates:  
## mean of x mean of y   
## 0.9537352 5.4603054   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.7707, df = 3, p-value = 0.0175  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.208811 26.082816  
## sample estimates:  
## mean of x mean of y   
## 15.65658885 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.7707, df = 3, p-value = 0.0175  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.208811 26.082816  
## sample estimates:  
## mean of x mean of y   
## 15.65658885 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3, df = 3.4505, p-value = 0.01734  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.108295 -1.312166  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 4.9878834   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3, df = 3.4505, p-value = 0.01734  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.108295 -1.312166  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 4.9878834   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.4936, df = 3, p-value = 0.02057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.269953 13.289264  
## sample estimates:  
## mean of x mean of y   
## 7.79038392 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.4936, df = 3, p-value = 0.02057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.269953 13.289264  
## sample estimates:  
## mean of x mean of y   
## 7.79038392 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0003, df = 3.5242, p-value = 0.01037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -28.797734 -7.514687  
## sample estimates:  
## mean of x mean of y   
## 12.02520 30.18141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.0003, df = 3.5242, p-value = 0.01037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -28.797734 -7.514687  
## sample estimates:  
## mean of x mean of y   
## 12.02520 30.18141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9081, df = 4.8772, p-value = 0.004751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -61.07196 -18.87933  
## sample estimates:  
## mean of x mean of y   
## 36.18785 76.16349   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9081, df = 4.8772, p-value = 0.004751  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -61.07196 -18.87933  
## sample estimates:  
## mean of x mean of y   
## 36.18785 76.16349   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6013, df = 4.9944, p-value = 0.002515  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.256841 -3.060995  
## sample estimates:  
## mean of x mean of y   
## 3.351813 9.010730   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6013, df = 4.9944, p-value = 0.002515  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.256841 -3.060995  
## sample estimates:  
## mean of x mean of y   
## 3.351813 9.010730   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2198, df = 4.5353, p-value = 0.0103  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.709514 -3.356404  
## sample estimates:  
## mean of x mean of y   
## 3.970107 13.003066   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.2198, df = 4.5353, p-value = 0.0103  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.709514 -3.356404  
## sample estimates:  
## mean of x mean of y   
## 3.970107 13.003066   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1568, df = 2, p-value = 0.08739  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.672258 1.024941  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.833219418   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1568, df = 2, p-value = 0.08739  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.672258 1.024941  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.833219418   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1165, df = 3.7767, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 13.79175 48.26764  
## sample estimates:  
## mean of x mean of y   
## 37.412519 6.382823   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1165, df = 3.7767, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 13.79175 48.26764  
## sample estimates:  
## mean of x mean of y   
## 37.412519 6.382823   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2135, df = 3.0535, p-value = 0.04763  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.0300464 -0.3532739  
## sample estimates:  
## mean of x mean of y   
## 14.36128 32.55294   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2135, df = 3.0535, p-value = 0.04763  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -36.0300464 -0.3532739  
## sample estimates:  
## mean of x mean of y   
## 14.36128 32.55294   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1775, df = 3.9205, p-value = 0.006989  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.120381 -1.825218  
## sample estimates:  
## mean of x mean of y   
## 1.425252 5.398051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1775, df = 3.9205, p-value = 0.006989  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.120381 -1.825218  
## sample estimates:  
## mean of x mean of y   
## 1.425252 5.398051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.0211, df = 3, p-value = 0.02762  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4887075 4.1975936  
## sample estimates:  
## mean of x mean of y   
## 2.35392594 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.0211, df = 3, p-value = 0.02762  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4887075 4.1975936  
## sample estimates:  
## mean of x mean of y   
## 2.35392594 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1282, df = 2.8668, p-value = 0.02813  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.782453 -0.905427  
## sample estimates:  
## mean of x mean of y   
## 0.9930889 5.3370290   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1282, df = 2.8668, p-value = 0.02813  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.782453 -0.905427  
## sample estimates:  
## mean of x mean of y   
## 0.9930889 5.3370290   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.4967, df = 4.093, p-value = 0.06559  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.2374211 4.8866647  
## sample estimates:  
## mean of x mean of y   
## 4.141326 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.4967, df = 4.093, p-value = 0.06559  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.2374211 4.8866647  
## sample estimates:  
## mean of x mean of y   
## 4.141326 1.816704   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1551, df = 4.3471, p-value = 0.005348  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.590951 11.435051  
## sample estimates:  
## mean of x mean of y   
## 10.37632 2.86332   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.1551, df = 4.3471, p-value = 0.005348  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.590951 11.435051  
## sample estimates:  
## mean of x mean of y   
## 10.37632 2.86332   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.58908, df = 3.9596, p-value = 0.5878  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.164525 4.664779  
## sample estimates:  
## mean of x mean of y   
## 16.06334 17.31322   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.58908, df = 3.9596, p-value = 0.5878  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.164525 4.664779  
## sample estimates:  
## mean of x mean of y   
## 16.06334 17.31322   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1875, df = 2.7132, p-value = 0.03016  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.884664 -1.265676  
## sample estimates:  
## mean of x mean of y   
## 1.963549 8.538719   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1875, df = 2.7132, p-value = 0.03016  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.884664 -1.265676  
## sample estimates:  
## mean of x mean of y   
## 1.963549 8.538719   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.2351, df = 3.5558, p-value = 0.00875  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.860455 -2.801172  
## sample estimates:  
## mean of x mean of y   
## 6.579898 12.910712   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.2351, df = 3.5558, p-value = 0.00875  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.860455 -2.801172  
## sample estimates:  
## mean of x mean of y   
## 6.579898 12.910712   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.6393, df = 3.0181, p-value = 0.01862  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.324417 49.624989  
## sample estimates:  
## mean of x mean of y   
## 29.8342136 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.6393, df = 3.0181, p-value = 0.01862  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.324417 49.624989  
## sample estimates:  
## mean of x mean of y   
## 29.8342136 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9898, df = 3.3859, p-value = 0.01153  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.785366 -3.963963  
## sample estimates:  
## mean of x mean of y   
## 7.376708 17.251372   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9898, df = 3.3859, p-value = 0.01153  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.785366 -3.963963  
## sample estimates:  
## mean of x mean of y   
## 7.376708 17.251372   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4671, df = 2, p-value = 0.1324  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.043501 1.909767  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.576428461   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4671, df = 2, p-value = 0.1324  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.043501 1.909767  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 2.576428461   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.759, df = 3.9181, p-value = 0.002692  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.241987 -9.213455  
## sample estimates:  
## mean of x mean of y   
## 14.01342 29.74114   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.759, df = 3.9181, p-value = 0.002692  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.241987 -9.213455  
## sample estimates:  
## mean of x mean of y   
## 14.01342 29.74114   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3172, df = 4.2731, p-value = 0.02668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.940026 -2.016521  
## sample estimates:  
## mean of x mean of y   
## 14.98616 25.96444   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3172, df = 4.2731, p-value = 0.02668  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.940026 -2.016521  
## sample estimates:  
## mean of x mean of y   
## 14.98616 25.96444   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7087, df = 4.6917, p-value = 0.002831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.711900 -8.043898  
## sample estimates:  
## mean of x mean of y   
## 9.413712 24.291611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7087, df = 4.6917, p-value = 0.002831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.711900 -8.043898  
## sample estimates:  
## mean of x mean of y   
## 9.413712 24.291611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0189, df = 4.9979, p-value = 0.01014  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.256104 -2.473291  
## sample estimates:  
## mean of x mean of y   
## 4.680764 11.545462   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0189, df = 4.9979, p-value = 0.01014  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.256104 -2.473291  
## sample estimates:  
## mean of x mean of y   
## 4.680764 11.545462   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9406, df = 2.6396, p-value = 0.07079  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.2176438 0.9615601  
## sample estimates:  
## mean of x mean of y   
## 2.716140 8.344182   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9406, df = 2.6396, p-value = 0.07079  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.2176438 0.9615601  
## sample estimates:  
## mean of x mean of y   
## 2.716140 8.344182   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5194, df = 3.0038, p-value = 0.03886  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.235604 -0.366333  
## sample estimates:  
## mean of x mean of y   
## 1.249169 5.050138   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5194, df = 3.0038, p-value = 0.03886  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.235604 -0.366333  
## sample estimates:  
## mean of x mean of y   
## 1.249169 5.050138   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.648, df = 3.0219, p-value = 0.03512  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.861331 111.993154  
## sample estimates:  
## mean of x mean of y   
## 117.23241 57.30516   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.648, df = 3.0219, p-value = 0.03512  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 7.861331 111.993154  
## sample estimates:  
## mean of x mean of y   
## 117.23241 57.30516   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.9728, df = 3.8735, p-value = 0.001533  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.792710 -3.249936  
## sample estimates:  
## mean of x mean of y   
## 2.850437 7.871760   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -7.9728, df = 3.8735, p-value = 0.001533  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.792710 -3.249936  
## sample estimates:  
## mean of x mean of y   
## 2.850437 7.871760   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3628, df = 2.6856, p-value = 0.02786  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.194272 -2.246173  
## sample estimates:  
## mean of x mean of y   
## 4.373553 14.593775   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3628, df = 2.6856, p-value = 0.02786  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.194272 -2.246173  
## sample estimates:  
## mean of x mean of y   
## 4.373553 14.593775   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.2426, df = 3, p-value = 0.01351  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8309285 3.3980656  
## sample estimates:  
## mean of x mean of y   
## 2.12527240 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.2426, df = 3, p-value = 0.01351  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.8309285 3.3980656  
## sample estimates:  
## mean of x mean of y   
## 2.12527240 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.8539, df = 3, p-value = 0.03086  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4103326 4.2998222  
## sample estimates:  
## mean of x mean of y   
## 2.36585279 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.8539, df = 3, p-value = 0.03086  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.4103326 4.2998222  
## sample estimates:  
## mean of x mean of y   
## 2.36585279 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5258, df = 4.8711, p-value = 0.002887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.982371 -3.970549  
## sample estimates:  
## mean of x mean of y   
## 7.968162 15.444622   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5258, df = 4.8711, p-value = 0.002887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.982371 -3.970549  
## sample estimates:  
## mean of x mean of y   
## 7.968162 15.444622   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9306, df = 4.357, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.909829 -3.171693  
## sample estimates:  
## mean of x mean of y   
## 5.117791 15.158552   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9306, df = 4.357, p-value = 0.01449  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.909829 -3.171693  
## sample estimates:  
## mean of x mean of y   
## 5.117791 15.158552   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5425, df = 4.0905, p-value = 0.009944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.598525 -1.864653  
## sample estimates:  
## mean of x mean of y   
## 2.852869 7.584458   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5425, df = 4.0905, p-value = 0.009944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.598525 -1.864653  
## sample estimates:  
## mean of x mean of y   
## 2.852869 7.584458   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1271, df = 2, p-value = 0.08884  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.925013 1.728503  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 4.607816009   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1271, df = 2, p-value = 0.08884  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.925013 1.728503  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 4.607816009   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3257, df = 2, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.23861 1.56248  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.847626128   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3257, df = 2, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.23861 1.56248  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.847626128   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0225, df = 3.7517, p-value = 0.01797  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4733648 -0.9333939  
## sample estimates:  
## mean of x mean of y   
## 0.7382991 3.9416785   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0225, df = 3.7517, p-value = 0.01797  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4733648 -0.9333939  
## sample estimates:  
## mean of x mean of y   
## 0.7382991 3.9416785   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.1526, df = 3, p-value = 0.008639  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.747959 30.637047  
## sample estimates:  
## mean of x mean of y   
## 20.20327830 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.1526, df = 3, p-value = 0.008639  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 9.747959 30.637047  
## sample estimates:  
## mean of x mean of y   
## 20.20327830 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.6651, df = 3.2455, p-value = 0.005359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 213.5185 573.9180  
## sample estimates:  
## mean of x mean of y   
## 466.50352 72.78528   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 6.6651, df = 3.2455, p-value = 0.005359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 213.5185 573.9180  
## sample estimates:  
## mean of x mean of y   
## 466.50352 72.78528   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9476, df = 2.3515, p-value = 0.02747  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.540247 -1.046663  
## sample estimates:  
## mean of x mean of y   
## 1.422820 5.716275   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9476, df = 2.3515, p-value = 0.02747  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.540247 -1.046663  
## sample estimates:  
## mean of x mean of y   
## 1.422820 5.716275   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9807, df = 4.976, p-value = 0.01062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.62163 -3.78086  
## sample estimates:  
## mean of x mean of y   
## 10.19373 20.89497   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.9807, df = 4.976, p-value = 0.01062  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.62163 -3.78086  
## sample estimates:  
## mean of x mean of y   
## 10.19373 20.89497   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9656, df = 3.0262, p-value = 0.01537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -144.99432 -32.06845  
## sample estimates:  
## mean of x mean of y   
## 109.0281 197.5595   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9656, df = 3.0262, p-value = 0.01537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -144.99432 -32.06845  
## sample estimates:  
## mean of x mean of y   
## 109.0281 197.5595   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5267, df = 3.3976, p-value = 0.03172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.9117250 -0.2437934  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 1.8171150   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5267, df = 3.3976, p-value = 0.03172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.9117250 -0.2437934  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 1.8171150   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.89637, df = 4.2394, p-value = 0.418  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.289749 2.560645  
## sample estimates:  
## mean of x mean of y   
## 3.848324 3.212876   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.89637, df = 4.2394, p-value = 0.418  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.289749 2.560645  
## sample estimates:  
## mean of x mean of y   
## 3.848324 3.212876   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4111, df = 3, p-value = 0.04212  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2772148 7.9936141  
## sample estimates:  
## mean of x mean of y   
## 4.14618983 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4111, df = 3, p-value = 0.04212  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.2772148 7.9936141  
## sample estimates:  
## mean of x mean of y   
## 4.14618983 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5091, df = 3.36, p-value = 0.008682  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1859911 -0.6452569  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.165850   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5091, df = 3.36, p-value = 0.008682  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1859911 -0.6452569  
## sample estimates:  
## mean of x mean of y   
## 0.750226 2.165850   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4178, df = 4.0661, p-value = 0.01111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.602545 -1.295178  
## sample estimates:  
## mean of x mean of y   
## 1.949190 5.398051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4178, df = 4.0661, p-value = 0.01111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.602545 -1.295178  
## sample estimates:  
## mean of x mean of y   
## 1.949190 5.398051   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.781, df = 4.8261, p-value = 0.1371  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3344544 1.7914805  
## sample estimates:  
## mean of x mean of y   
## 3.592244 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.781, df = 4.8261, p-value = 0.1371  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.3344544 1.7914805  
## sample estimates:  
## mean of x mean of y   
## 3.592244 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6167, df = 4.3949, p-value = 0.01908  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6248494 -0.3901181  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.7861932   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.6167, df = 4.3949, p-value = 0.01908  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6248494 -0.3901181  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.7861932   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.413, df = 3.0274, p-value = 0.02119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 11.15688 67.82137  
## sample estimates:  
## mean of x mean of y   
## 40.546513 1.057391   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.413, df = 3.0274, p-value = 0.02119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 11.15688 67.82137  
## sample estimates:  
## mean of x mean of y   
## 40.546513 1.057391   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1972, df = 2.3365, p-value = 0.0696  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.350108 2.617784  
## sample estimates:  
## mean of x mean of y   
## 9.762303 24.628465   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1972, df = 2.3365, p-value = 0.0696  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -32.350108 2.617784  
## sample estimates:  
## mean of x mean of y   
## 9.762303 24.628465   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2313, df = 2.4115, p-value = 0.06527  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.585273 0.418858  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.5917116   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2313, df = 2.4115, p-value = 0.06527  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.585273 0.418858  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 3.5917116   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3053, df = 4.4972, p-value = 0.02501  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.8651261 -0.5267538  
## sample estimates:  
## mean of x mean of y   
## 0.547858 3.243798   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3053, df = 4.4972, p-value = 0.02501  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.8651261 -0.5267538  
## sample estimates:  
## mean of x mean of y   
## 0.547858 3.243798   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0049, df = 3.2966, p-value = 0.02338  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.318174 -1.853273  
## sample estimates:  
## mean of x mean of y   
## 3.456805 11.042529   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0049, df = 3.2966, p-value = 0.02338  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -13.318174 -1.853273  
## sample estimates:  
## mean of x mean of y   
## 3.456805 11.042529   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6134, df = 3.6691, p-value = 0.01216  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.401593 -3.799476  
## sample estimates:  
## mean of x mean of y   
## 7.027561 17.128096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6134, df = 3.6691, p-value = 0.01216  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.401593 -3.799476  
## sample estimates:  
## mean of x mean of y   
## 7.027561 17.128096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6147, df = 3.0089, p-value = 0.01902  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -40.172746 -7.411542  
## sample estimates:  
## mean of x mean of y   
## 21.03411 44.82625   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.6147, df = 3.0089, p-value = 0.01902  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -40.172746 -7.411542  
## sample estimates:  
## mean of x mean of y   
## 21.03411 44.82625   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2002, df = 2.5034, p-value = 0.06328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.3842989 0.5688978  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 5.6853533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2002, df = 2.5034, p-value = 0.06328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.3842989 0.5688978  
## sample estimates:  
## mean of x mean of y   
## 0.7776528 5.6853533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2647, df = 4.4788, p-value = 0.02623  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1962632 -0.6286748  
## sample estimates:  
## mean of x mean of y   
## 1.288523 4.700992   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2647, df = 4.4788, p-value = 0.02623  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1962632 -0.6286748  
## sample estimates:  
## mean of x mean of y   
## 1.288523 4.700992   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.5321, df = 3.1136, p-value = 0.01855  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.607962 19.514966  
## sample estimates:  
## mean of x mean of y   
## 12.2701200 0.7086559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.5321, df = 3.1136, p-value = 0.01855  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.607962 19.514966  
## sample estimates:  
## mean of x mean of y   
## 12.2701200 0.7086559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9671, df = 3.3773, p-value = 0.006673  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -90.26851 -29.99657  
## sample estimates:  
## mean of x mean of y   
## 81.29159 141.42413   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.9671, df = 3.3773, p-value = 0.006673  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -90.26851 -29.99657  
## sample estimates:  
## mean of x mean of y   
## 81.29159 141.42413   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9167, df = 4.402, p-value = 0.006198  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.159101 -1.225097  
## sample estimates:  
## mean of x mean of y   
## 1.249169 3.941268   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.9167, df = 4.402, p-value = 0.006198  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.159101 -1.225097  
## sample estimates:  
## mean of x mean of y   
## 1.249169 3.941268   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8373, df = 2.791, p-value = 0.07159  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0973167 0.3222145  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8373, df = 2.791, p-value = 0.07159  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0973167 0.3222145  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7057, df = 2.4531, p-value = 0.09139  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.5782504 0.6642398  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1963611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7057, df = 2.4531, p-value = 0.09139  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.5782504 0.6642398  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1963611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7385, df = 2.1561, p-value = 0.1028  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.242859 4.399882  
## sample estimates:  
## mean of x mean of y   
## 5.479451 14.900939   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7385, df = 2.1561, p-value = 0.1028  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.242859 4.399882  
## sample estimates:  
## mean of x mean of y   
## 5.479451 14.900939   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7689, df = 3.02, p-value = 0.03232  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.620269 41.991430  
## sample estimates:  
## mean of x mean of y   
## 23.1653599 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7689, df = 3.02, p-value = 0.03232  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.620269 41.991430  
## sample estimates:  
## mean of x mean of y   
## 23.1653599 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.521, df = 4.9255, p-value = 0.01733  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.498057 -1.768365  
## sample estimates:  
## mean of x mean of y   
## 7.066915 13.700126   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.521, df = 4.9255, p-value = 0.01733  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.498057 -1.768365  
## sample estimates:  
## mean of x mean of y   
## 7.066915 13.700126   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6909, df = 2.8121, p-value = 0.07974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -74.736005 7.667914  
## sample estimates:  
## mean of x mean of y   
## 17.96488 51.49892   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6909, df = 2.8121, p-value = 0.07974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -74.736005 7.667914  
## sample estimates:  
## mean of x mean of y   
## 17.96488 51.49892   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8695, df = 4.995, p-value = 0.004607  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.42387 17.56109  
## sample estimates:  
## mean of x mean of y   
## 16.449443 4.956962   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 4.8695, df = 4.995, p-value = 0.004607  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 5.42387 17.56109  
## sample estimates:  
## mean of x mean of y   
## 16.449443 4.956962   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6549, df = 2.3033, p-value = 0.1013  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.582919 1.348026  
## sample estimates:  
## mean of x mean of y   
## 1.234811 4.352257   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6549, df = 2.3033, p-value = 0.1013  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.582919 1.348026  
## sample estimates:  
## mean of x mean of y   
## 1.234811 4.352257   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.8058, df = 3.8836, p-value = 0.004795  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 378.1008 1087.2066  
## sample estimates:  
## mean of x mean of y   
## 913.5699 180.9162   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 5.8058, df = 3.8836, p-value = 0.004795  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 378.1008 1087.2066  
## sample estimates:  
## mean of x mean of y   
## 913.5699 180.9162   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0161, df = 2.6097, p-value = 0.0358  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.916496 -2.842371  
## sample estimates:  
## mean of x mean of y   
## 12.57616 33.45559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.0161, df = 2.6097, p-value = 0.0358  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.916496 -2.842371  
## sample estimates:  
## mean of x mean of y   
## 12.57616 33.45559   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.724, df = 2.0699, p-value = 0.2226  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8587677 2.0710712  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.724, df = 2.0699, p-value = 0.2226  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8587677 2.0710712  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5187, df = 2.0461, p-value = 0.1253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.232154 5.339316  
## sample estimates:  
## mean of x mean of y   
## 1.476532 9.422952   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5187, df = 2.0461, p-value = 0.1253  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.232154 5.339316  
## sample estimates:  
## mean of x mean of y   
## 1.476532 9.422952   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4066, df = 4.8059, p-value = 0.007652  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.615335 -2.218126  
## sample estimates:  
## mean of x mean of y   
## 5.369008 10.785738   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4066, df = 4.8059, p-value = 0.007652  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.615335 -2.218126  
## sample estimates:  
## mean of x mean of y   
## 5.369008 10.785738   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4471, df = 2.2792, p-value = 0.06201  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.618837 1.258151  
## sample estimates:  
## mean of x mean of y   
## 4.841347 16.021690   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4471, df = 2.2792, p-value = 0.06201  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -23.618837 1.258151  
## sample estimates:  
## mean of x mean of y   
## 4.841347 16.021690   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9638, df = 2.5761, p-value = 0.07172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.2025197 0.3487102  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.9638, df = 2.5761, p-value = 0.07172  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.2025197 0.3487102  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1662606   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7595, df = 4.7376, p-value = 0.001328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -52.65752 -23.28813  
## sample estimates:  
## mean of x mean of y   
## 33.60674 71.57956   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.7595, df = 4.7376, p-value = 0.001328  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -52.65752 -23.28813  
## sample estimates:  
## mean of x mean of y   
## 33.60674 71.57956   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.0743, df = 4.0847, p-value = 0.1053  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.340553 9.524325  
## sample estimates:  
## mean of x mean of y   
## 10.157717 6.065831   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.0743, df = 4.0847, p-value = 0.1053  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.340553 9.524325  
## sample estimates:  
## mean of x mean of y   
## 10.157717 6.065831   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7936, df = 4.413, p-value = 0.01603  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.9500627 -0.6816825  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.7936, df = 4.413, p-value = 0.01603  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.9500627 -0.6816825  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.863731   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8862, df = 4.1273, p-value = 0.01672  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.45750 -6.63193  
## sample estimates:  
## mean of x mean of y   
## 24.20992 46.75464   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8862, df = 4.1273, p-value = 0.01672  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -38.45750 -6.63193  
## sample estimates:  
## mean of x mean of y   
## 24.20992 46.75464   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7648, df = 3.2806, p-value = 0.008078  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.5514750 -0.7919337  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 2.1658500   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7648, df = 3.2806, p-value = 0.008078  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.5514750 -0.7919337  
## sample estimates:  
## mean of x mean of y   
## 0.4941456 2.1658500   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5458, df = 4.9182, p-value = 0.002757  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.120285 -6.238587  
## sample estimates:  
## mean of x mean of y   
## 10.13888 21.81831   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.5458, df = 4.9182, p-value = 0.002757  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.120285 -6.238587  
## sample estimates:  
## mean of x mean of y   
## 10.13888 21.81831   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7053, df = 3.0297, p-value = 0.03359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.68192 34.09062  
## sample estimates:  
## mean of x mean of y   
## 18.7457785 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.7053, df = 3.0297, p-value = 0.03359  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 2.68192 34.09062  
## sample estimates:  
## mean of x mean of y   
## 18.7457785 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0471, df = 2.637, p-value = 0.06563  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0396713 0.2477052  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1353388   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0471, df = 2.637, p-value = 0.06563  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0396713 0.2477052  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1353388   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1596, df = 4.0283, p-value = 0.09645  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.402041 1.285711  
## sample estimates:  
## mean of x mean of y   
## 16.65421 21.21238   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1596, df = 4.0283, p-value = 0.09645  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -10.402041 1.285711  
## sample estimates:  
## mean of x mean of y   
## 16.65421 21.21238   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4127, df = 2.4657, p-value = 0.05642  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4976417 0.1548532  
## sample estimates:  
## mean of x mean of y   
## 1.680041 4.351436   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.4127, df = 2.4657, p-value = 0.05642  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -5.4976417 0.1548532  
## sample estimates:  
## mean of x mean of y   
## 1.680041 4.351436   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9873, df = 2.8579, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.582019 2.380068  
## sample estimates:  
## mean of x mean of y   
## 2.366994 1.467969   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.9873, df = 2.8579, p-value = 0.1456  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.582019 2.380068  
## sample estimates:  
## mean of x mean of y   
## 2.366994 1.467969   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1035, df = 3.3677, p-value = 0.04552  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1328889 -0.1094653  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 3.9107567   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.1035, df = 3.3677, p-value = 0.04552  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.1328889 -0.1094653  
## sample estimates:  
## mean of x mean of y   
## 0.7895796 3.9107567   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1139, df = 3.8202, p-value = 0.007818  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.774393 -1.949026  
## sample estimates:  
## mean of x mean of y   
## 1.385898 5.747607   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.1139, df = 3.8202, p-value = 0.007818  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.774393 -1.949026  
## sample estimates:  
## mean of x mean of y   
## 1.385898 5.747607   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5502, df = 3.2245, p-value = 0.0339  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.835912 -0.654282  
## sample estimates:  
## mean of x mean of y   
## 0.9406671 5.6857639   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.5502, df = 3.2245, p-value = 0.0339  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.835912 -0.654282  
## sample estimates:  
## mean of x mean of y   
## 0.9406671 5.6857639   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1489, df = 3, p-value = 0.05131  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.03013773 5.69047175  
## sample estimates:  
## mean of x mean of y   
## 2.84094238 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1489, df = 3, p-value = 0.05131  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.03013773 5.69047175  
## sample estimates:  
## mean of x mean of y   
## 2.84094238 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8414, df = 2.7945, p-value = 0.07125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0905734 0.3171137  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1654393   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8414, df = 2.7945, p-value = 0.07125  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0905734 0.3171137  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.1654393   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1853, df = 2.5651, p-value = 0.334  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.814505 3.664305  
## sample estimates:  
## mean of x mean of y   
## 2.39328 1.46838   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1853, df = 2.5651, p-value = 0.334  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.814505 3.664305  
## sample estimates:  
## mean of x mean of y   
## 2.39328 1.46838   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2299, df = 2.1209, p-value = 0.1483  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.599775 5.738131  
## sample estimates:  
## mean of x mean of y   
## 2.931577 9.862399   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2299, df = 2.1209, p-value = 0.1483  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.599775 5.738131  
## sample estimates:  
## mean of x mean of y   
## 2.931577 9.862399   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1123, df = 3, p-value = 0.05279  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.0606365 5.4403667  
## sample estimates:  
## mean of x mean of y   
## 2.70064048 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.1123, df = 3, p-value = 0.05279  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.0606365 5.4403667  
## sample estimates:  
## mean of x mean of y   
## 2.70064048 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.536, df = 4.9766, p-value = 0.006262  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.096352 -4.441143  
## sample estimates:  
## mean of x mean of y   
## 9.743636 20.012383   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.536, df = 4.9766, p-value = 0.006262  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.096352 -4.441143  
## sample estimates:  
## mean of x mean of y   
## 9.743636 20.012383   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.797, df = 3.6459, p-value = 0.1537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.4951018 2.1290050  
## sample estimates:  
## mean of x mean of y   
## 1.2073837 0.3904321   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.797, df = 3.6459, p-value = 0.1537  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.4951018 2.1290050  
## sample estimates:  
## mean of x mean of y   
## 1.2073837 0.3904321   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.407, df = 2.5181, p-value = 0.1117  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.062847 3.095966  
## sample estimates:  
## mean of x mean of y   
## 2.27091 8.75435   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.407, df = 2.5181, p-value = 0.1117  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -16.062847 3.095966  
## sample estimates:  
## mean of x mean of y   
## 2.27091 8.75435   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8545, df = 3.3838, p-value = 0.02484  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.451078 -1.577389  
## sample estimates:  
## mean of x mean of y   
## 5.260442 12.274675   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.8545, df = 3.3838, p-value = 0.02484  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.451078 -1.577389  
## sample estimates:  
## mean of x mean of y   
## 5.260442 12.274675   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7191, df = 4.2588, p-value = 0.007866  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.259067 -5.745032  
## sample estimates:  
## mean of x mean of y   
## 11.22983 24.73188   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.7191, df = 4.2588, p-value = 0.007866  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -21.259067 -5.745032  
## sample estimates:  
## mean of x mean of y   
## 11.22983 24.73188   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.546, df = 3.014, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.164686 -2.517241  
## sample estimates:  
## mean of x mean of y   
## 6.283323 14.624286   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.546, df = 3.014, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -14.164686 -2.517241  
## sample estimates:  
## mean of x mean of y   
## 6.283323 14.624286   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.873, df = 4.1312, p-value = 0.002084  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -50.19618 -21.56625  
## sample estimates:  
## mean of x mean of y   
## 51.03001 86.91123   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.873, df = 4.1312, p-value = 0.002084  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -50.19618 -21.56625  
## sample estimates:  
## mean of x mean of y   
## 51.03001 86.91123   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0515, df = 2.6394, p-value = 0.06535  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0343946 0.2432498  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1349282   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.0515, df = 2.6394, p-value = 0.06535  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.0343946 0.2432498  
## sample estimates:  
## mean of x mean of y   
## 0.2393558 2.1349282   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8686, df = 2.7788, p-value = 0.07023  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -47.850953 3.566437  
## sample estimates:  
## mean of x mean of y   
## 23.08392 45.22618   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.8686, df = 2.7788, p-value = 0.07023  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -47.850953 3.566437  
## sample estimates:  
## mean of x mean of y   
## 23.08392 45.22618   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.667, df = 2.0722, p-value = 0.06347  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.708993 1.119928  
## sample estimates:  
## mean of x mean of y   
## 3.794612 12.089144   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.667, df = 2.0722, p-value = 0.06347  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -17.708993 1.119928  
## sample estimates:  
## mean of x mean of y   
## 3.794612 12.089144   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7722, df = 4.7526, p-value = 0.002591  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.72067 -10.07444  
## sample estimates:  
## mean of x mean of y   
## 18.06519 36.46274   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.7722, df = 4.7526, p-value = 0.002591  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -26.72067 -10.07444  
## sample estimates:  
## mean of x mean of y   
## 18.06519 36.46274   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3193, df = 4.9934, p-value = 0.007599  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.555698 -5.720548  
## sample estimates:  
## mean of x mean of y   
## 12.65730 26.79542   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3193, df = 4.9934, p-value = 0.007599  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.555698 -5.720548  
## sample estimates:  
## mean of x mean of y   
## 12.65730 26.79542   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6783, df = 3.6398, p-value = 0.06113  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.9390316 0.1862899  
## sample estimates:  
## mean of x mean of y   
## 1.975475 4.351846   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6783, df = 3.6398, p-value = 0.06113  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.9390316 0.1862899  
## sample estimates:  
## mean of x mean of y   
## 1.975475 4.351846   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.4752, df = 4.1848, p-value = 0.004746  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.323970 -6.469136  
## sample estimates:  
## mean of x mean of y   
## 17.57339 30.46994   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.4752, df = 4.1848, p-value = 0.004746  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.323970 -6.469136  
## sample estimates:  
## mean of x mean of y   
## 17.57339 30.46994   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3712, df = 3.6497, p-value = 0.03224  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.5308599 6.8273510  
## sample estimates:  
## mean of x mean of y   
## 4.0386158 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3712, df = 3.6497, p-value = 0.03224  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.5308599 6.8273510  
## sample estimates:  
## mean of x mean of y   
## 4.0386158 0.3595103   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1615, df = 2.6668, p-value = 0.3388  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.926498 3.908267  
## sample estimates:  
## mean of x mean of y   
## 2.838511 1.847626   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.1615, df = 2.6668, p-value = 0.3388  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.926498 3.908267  
## sample estimates:  
## mean of x mean of y   
## 2.838511 1.847626   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6513, df = 4.2962, p-value = 0.003887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -24.927487 -8.798864  
## sample estimates:  
## mean of x mean of y   
## 18.58305 35.44623   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6513, df = 4.2962, p-value = 0.003887  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -24.927487 -8.798864  
## sample estimates:  
## mean of x mean of y   
## 18.58305 35.44623   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7569, df = 4.273, p-value = 0.04743  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.434664 -0.138448  
## sample estimates:  
## mean of x mean of y   
## 4.519041 12.305597   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.7569, df = 4.273, p-value = 0.04743  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.434664 -0.138448  
## sample estimates:  
## mean of x mean of y   
## 4.519041 12.305597   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.8823, df = 3.1534, p-value = 0.05973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04195945 1.17056343  
## sample estimates:  
## mean of x mean of y   
## 1.652615 1.088313   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.8823, df = 3.1534, p-value = 0.05973  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04195945 1.17056343  
## sample estimates:  
## mean of x mean of y   
## 1.652615 1.088313   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1768, df = 2.2175, p-value = 0.1488  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.514993 1.864702  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5764285   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1768, df = 2.2175, p-value = 0.1488  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.514993 1.864702  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 2.5764285   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3292, df = 4.9655, p-value = 0.02102  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.721807 -1.495167  
## sample estimates:  
## mean of x mean of y   
## 9.247124 15.855611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3292, df = 4.9655, p-value = 0.02102  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -11.721807 -1.495167  
## sample estimates:  
## mean of x mean of y   
## 9.247124 15.855611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.8448, df = 4.781, p-value = 0.002409  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -64.23331 -24.61333  
## sample estimates:  
## mean of x mean of y   
## 50.39088 94.81420   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.8448, df = 4.781, p-value = 0.002409  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -64.23331 -24.61333  
## sample estimates:  
## mean of x mean of y   
## 50.39088 94.81420   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3751, df = 3.028, p-value = 0.02168  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.216131 -3.081283  
## sample estimates:  
## mean of x mean of y   
## 7.878083 19.026790   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.3751, df = 3.028, p-value = 0.02168  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -19.216131 -3.081283  
## sample estimates:  
## mean of x mean of y   
## 7.878083 19.026790   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9645, df = 3, p-value = 0.05933  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
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##   
## Welch Two Sample t-test  
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## -0.05435649 1.53325766  
## sample estimates:  
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## 0.75022596 0.01077537   
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## -0.05435649 1.53325766  
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## mean of x mean of y   
## 0.75022596 0.01077537   
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## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
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## mean of x mean of y   
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## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
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## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
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## Welch Two Sample t-test  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
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## Welch Two Sample t-test  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
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## Welch Two Sample t-test  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
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## Welch Two Sample t-test  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
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## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
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## Welch Two Sample t-test  
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## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
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## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
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## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
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## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05435649 1.53325766  
## sample estimates:  
## mean of x mean of y   
## 0.75022596 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4209, df = 3.6436, p-value = 0.07895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6074255 0.2289057  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4679694   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.4209, df = 3.6436, p-value = 0.07895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.6074255 0.2289057  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4679694   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2839, df = 2.0924, p-value = 0.1442  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.399588 3.562874  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.9268611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2839, df = 2.0924, p-value = 0.1442  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.399588 3.562874  
## sample estimates:  
## mean of x mean of y   
## 0.5085043 4.9268611   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.14198, df = 4.0228, p-value = 0.8939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.89387 14.34409  
## sample estimates:  
## mean of x mean of y   
## 66.08641 66.86130   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -0.14198, df = 4.0228, p-value = 0.8939  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -15.89387 14.34409  
## sample estimates:  
## mean of x mean of y   
## 66.08641 66.86130   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.0614, df = 2.2319, p-value = 0.3897  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.327303 5.814371  
## sample estimates:  
## mean of x mean of y   
## 2.393280 1.149746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.0614, df = 2.2319, p-value = 0.3897  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -3.327303 5.814371  
## sample estimates:  
## mean of x mean of y   
## 2.393280 1.149746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6328, df = 3.3691, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1900578 -0.6699076  
## sample estimates:  
## mean of x mean of y   
## 0.7358673 2.1658500   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -5.6328, df = 3.3691, p-value = 0.008044  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.1900578 -0.6699076  
## sample estimates:  
## mean of x mean of y   
## 0.7358673 2.1658500   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4638, df = 4.7147, p-value = 0.2065  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.196670 4.231716  
## sample estimates:  
## mean of x mean of y   
## 4.062619 2.545096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4638, df = 4.7147, p-value = 0.2065  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.196670 4.231716  
## sample estimates:  
## mean of x mean of y   
## 4.062619 2.545096   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0687, df = 4.3833, p-value = 0.002755  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.671900 -2.967672  
## sample estimates:  
## mean of x mean of y   
## 4.357904 9.677689   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -6.0687, df = 4.3833, p-value = 0.002755  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -7.671900 -2.967672  
## sample estimates:  
## mean of x mean of y   
## 4.357904 9.677689   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.73344, df = 4.5404, p-value = 0.4994  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.712915 3.023351  
## sample estimates:  
## mean of x mean of y   
## 3.200725 2.545507   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 0.73344, df = 4.5404, p-value = 0.4994  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.712915 3.023351  
## sample estimates:  
## mean of x mean of y   
## 3.200725 2.545507   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.6999, df = 4.766, p-value = 0.1528  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8395486 3.9793283  
## sample estimates:  
## mean of x mean of y   
## 2.688714 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.6999, df = 4.766, p-value = 0.1528  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.8395486 3.9793283  
## sample estimates:  
## mean of x mean of y   
## 2.688714 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3235, df = 2.322, p-value = 0.06496  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.163969 1.996526  
## sample estimates:  
## mean of x mean of y   
## 6.730837 21.314558   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3235, df = 2.322, p-value = 0.06496  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.163969 1.996526  
## sample estimates:  
## mean of x mean of y   
## 6.730837 21.314558   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9865, df = 3, p-value = 0.05829  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.04498557 1.41646202  
## sample estimates:  
## mean of x mean of y   
## 0.69651360 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3022, df = 2.1891, p-value = 0.0714  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.520677 1.142471  
## sample estimates:  
## mean of x mean of y   
## 2.850437 8.539540   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.3022, df = 2.1891, p-value = 0.0714  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.520677 1.142471  
## sample estimates:  
## mean of x mean of y   
## 2.850437 8.539540   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9307, df = 2.061, p-value = 0.1895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.073548 4.447846  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 4.0641336   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9307, df = 2.061, p-value = 0.1895  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.073548 4.447846  
## sample estimates:  
## mean of x mean of y   
## 0.2512827 4.0641336   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.117, df = 2.4034, p-value = 0.07057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.4606865 0.5348427  
## sample estimates:  
## mean of x mean of y   
## 1.706327 4.669249   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.117, df = 2.4034, p-value = 0.07057  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -6.4606865 0.5348427  
## sample estimates:  
## mean of x mean of y   
## 1.706327 4.669249   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5635, df = 4.7154, p-value = 0.006965  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.368747 -8.498303  
## sample estimates:  
## mean of x mean of y   
## 26.02964 45.96317   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.5635, df = 4.7154, p-value = 0.006965  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -31.368747 -8.498303  
## sample estimates:  
## mean of x mean of y   
## 26.02964 45.96317   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3626, df = 2.9788, p-value = 0.09979  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -101.43462 15.19753  
## sample estimates:  
## mean of x mean of y   
## 29.79843 72.91697   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3626, df = 2.9788, p-value = 0.09979  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -101.43462 15.19753  
## sample estimates:  
## mean of x mean of y   
## 29.79843 72.91697   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3257, df = 4.8193, p-value = 0.02207  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.350764 27.353840  
## sample estimates:  
## mean of x mean of y   
## 45.66764 30.31533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.3257, df = 4.8193, p-value = 0.02207  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 3.350764 27.353840  
## sample estimates:  
## mean of x mean of y   
## 45.66764 30.31533   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6911, df = 2.7945, p-value = 0.08027  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.3854847 0.4581994  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 2.4840738   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6911, df = 2.7945, p-value = 0.08027  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.3854847 0.4581994  
## sample estimates:  
## mean of x mean of y   
## 0.5204311 2.4840738   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.9413, df = 3, p-value = 0.06045  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.05847551 1.48480558  
## sample estimates:  
## mean of x mean of y   
## 0.72394041 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6938, df = 4.2394, p-value = 0.05119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.65142022 0.01885379  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.864141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6938, df = 4.2394, p-value = 0.05119  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.65142022 0.01885379  
## sample estimates:  
## mean of x mean of y   
## 0.547858 2.864141   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2547, df = 4.5185, p-value = 0.02616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.895684 -1.003844  
## sample estimates:  
## mean of x mean of y   
## 5.367717 10.817481   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -3.2547, df = 4.5185, p-value = 0.02616  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -9.895684 -1.003844  
## sample estimates:  
## mean of x mean of y   
## 5.367717 10.817481   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6947, df = 4.2422, p-value = 0.05111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.326242527 0.008744948  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4374583   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.6947, df = 4.2422, p-value = 0.05111  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.326242527 0.008744948  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 1.4374583   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4692, df = 3, p-value = 0.04037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.680507 15.784638  
## sample estimates:  
## mean of x mean of y   
## 8.24334773 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 3.4692, df = 3, p-value = 0.04037  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.680507 15.784638  
## sample estimates:  
## mean of x mean of y   
## 8.24334773 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4949, df = 3.0572, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.454795 -3.249474  
## sample estimates:  
## mean of x mean of y   
## 10.30045 21.15259   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.4949, df = 3.0572, p-value = 0.01974  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -18.454795 -3.249474  
## sample estimates:  
## mean of x mean of y   
## 10.30045 21.15259   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5537, df = 2.523, p-value = 0.09944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -51.303158 8.384741  
## sample estimates:  
## mean of x mean of y   
## 16.60551 38.06472   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.5537, df = 2.523, p-value = 0.09944  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -51.303158 8.384741  
## sample estimates:  
## mean of x mean of y   
## 16.60551 38.06472   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2102, df = 4.8457, p-value = 0.0798  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.26667513 0.02137393  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 1.0883127   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.2102, df = 4.8457, p-value = 0.0798  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.26667513 0.02137393  
## sample estimates:  
## mean of x mean of y   
## 0.9656621 1.0883127   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4553, df = 4.9567, p-value = 0.2058  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.241579 4.462349  
## sample estimates:  
## mean of x mean of y   
## 2.729209 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 1.4553, df = 4.9567, p-value = 0.2058  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.241579 4.462349  
## sample estimates:  
## mean of x mean of y   
## 2.729209 1.118824   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9375, df = 2.0661, p-value = 0.1882  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.126786 8.095892  
## sample estimates:  
## mean of x mean of y   
## 0.7227991 7.7382458   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9375, df = 2.0661, p-value = 0.1882  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -22.126786 8.095892  
## sample estimates:  
## mean of x mean of y   
## 0.7227991 7.7382458   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.928, df = 3, p-value = 0.0611  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.556842 13.371939  
## sample estimates:  
## mean of x mean of y   
## 6.41832393 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.928, df = 3, p-value = 0.0611  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -0.556842 13.371939  
## sample estimates:  
## mean of x mean of y   
## 6.41832393 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.7117, df = 3, p-value = 0.07306  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.263597 15.820528  
## sample estimates:  
## mean of x mean of y   
## 7.28924117 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = 2.7117, df = 3, p-value = 0.07306  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -1.263597 15.820528  
## sample estimates:  
## mean of x mean of y   
## 7.28924117 0.01077537   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1552, df = 2.5627, p-value = 0.1354  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.882460 2.127648  
## sample estimates:  
## mean of x mean of y   
## 1.733754 5.111160   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.1552, df = 2.5627, p-value = 0.1354  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.882460 2.127648  
## sample estimates:  
## mean of x mean of y   
## 1.733754 5.111160   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3103, df = 2.2781, p-value = 0.1315  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.021317 2.984808  
## sample estimates:  
## mean of x mean of y   
## 1.261096 5.779351   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -2.3103, df = 2.2781, p-value = 0.1315  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -12.021317 2.984808  
## sample estimates:  
## mean of x mean of y   
## 1.261096 5.779351   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1121, df = 4.4807, p-value = 0.01164  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.777967 -1.877738  
## sample estimates:  
## mean of x mean of y   
## 3.682878 9.010730   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -4.1121, df = 4.4807, p-value = 0.01164  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.777967 -1.877738  
## sample estimates:  
## mean of x mean of y   
## 3.682878 9.010730   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.8674, df = 2.1474, p-value = 0.194  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.456616 3.102686  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.9556746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.8674, df = 2.1474, p-value = 0.194  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -8.456616 3.102686  
## sample estimates:  
## mean of x mean of y   
## 0.2787095 2.9556746   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
##   
##   
## Welch Two Sample t-test  
##   
## data: c(s\_1injuredbrainnumbs[t], S\_2injuredbrainnumbs[t], s\_3injuredbrainnumbs[t], s\_4injuredbrainnumbs[t]) and c(s\_5normalbrainnumbs[t], s\_6normalbrainnumbs[t], s\_7normalbrainnumbs[t])  
## t = -1.9959, df = 2, p-value = 0.1841  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.603588 1.685950  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.468380039   
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## t = -2.0026, df = 2, p-value = 0.1831  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -4.398391 1.604440  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 1.406536514   
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## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
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## t = -1.9971, df = 2, p-value = 0.1839  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## -2.302776 0.842743  
## sample estimates:  
## mean of x mean of y   
## 0.009561011 0.739577706   
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