reading.in.data.R

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Turn list of co/chronic mobidity and mental health into "ture" and "false"

@param x the levels for patients in the original data frame to be turned into "ture" and "false" @param possible numbers of possible levels for co/chronic mobidity and mental health @return vectors of "ture" and "false" according to the levels of co/chronic mobidity and mental health

extractmorbidity=function(x,possible) #possible=#of possible values for 16 or 23 values for chronic / co-mobidity  
{  
 if(x[1]==999||is.na(x[1]))  
 {  
 return(rep(F,possible))  
 }else{  
 has=rep(F,possible)  
 for(i in x){  
 has[i]=T  
 }  
 return(has)  
 }  
}  
  
hasrepeat=function(x,possible)  
{  
 tab=table(x)  
 m=max(tab)  
 w=names(which.max(tab))  
 ifelse(m>1,w,NA)  
}  
  
hasrepeat2=function(x,possible)  
{  
 tab=table(x)  
 names(tab[tab>1])  
}  
  
#made fuction that label the specific values of each co-mobidity  
extractco=function(x)  
{  
 thenames=c("Other","Eat","Hypert","Cardio","Kidney","Retino","Wounds","Neuro","Liver",  
 "Vascular","Obesity","Cancer","Lipidd",  
 "Thyroid","Dementia","Pulmon","sleep",  
 "HIV","Pancreas","Celiac","Genetic","Deafblind","Mental")   
 M=extractmorbidity(x,23)  
 names(M)=thenames  
 return(M)  
   
}  
  
  
#made functionthat label the specific values for each chronic-morbidity  
extractchronic=function(x)  
{  
 thenames=c("COther","CNeuro","CRetino","CBlind","CCardio","CWounds",  
 "Amput","Skin","Lipo","Hypo",  
 "Diabetic","Foot","Stiff","Hear","Frac","Nephro")  
 M=extractmorbidity(x,16)  
 names(M)=thenames  
 return(M)  
}  
  
extractMH=function(x)  
{  
 thenames=c("depress","OCD","schizophrenia","alcoholism","bipolar","anxiety","develop","delusional",  
 "psychosis","mood","drug","adjustment","alzheimers","cognitive","personality","klinfelter",  
 "PTSD","agaraphobia","binge","panic","cope","socialanx","manic","hoarding","eating","maladaptive",  
 "imsomnia","clusterc","schizo","ADD","generalizeanx","addiction")  
 M=extractmorbidity(x,32)  
 names(M)=thenames  
 return(M)  
}  
  
  
  
  
  
  
  
  
  
# read data in from csv  
#   
# a paragraph with more details about function  
#   
# @param file.name name of imported file  
#  
# @return dataframe containing all variables as appropriatly dates, factor and logicals  
# @export   
# @import dplyr  
# @import lubridate  
library(dplyr)

## Warning: package 'dplyr' was built under R version 3.1.2

##   
## Attaching package: 'dplyr'

## The following object is masked from 'package:stats':  
##   
## filter

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

Readdata=function(file.name)  
 {  
 data=read.csv("../inst/extdata/finaldata.csv",header=T)  
 #refer the column names by numbers  
   
 #take the rows that are not NA for location and gender  
 #cut = converted the numbers into factors --> converted the numbers to factors of the following variables  
 #library(dplyr)  
 data %>%  
 dplyr::slice(1:622) ->data2  
   
   
 locationf=cut(data2[,2],breaks=c(0,1.2,3),labels=c("HALTON","MISSISSAUGA"))  
   
   
 genderf=cut(data2[,4],breaks=c(0,1.5,3),labels=c("M","F"))  
   
   
 repeatreferral=cut(data2[,7],breaks=c(-1,0.5,2),labels=c("No","Yes"))  
   
   
 referralfrom=cut(data2[,8],breaks=c(-1,1.5,2.5,3.5,4.5,6),labels=c("primary","self","specialist","hospital","DEC"))  
   
   
 socialissue=cut(data2[,9],breaks=c(0,1.5,2.5,3.5,4.5,5.5,6.5,7.5,8.5,9.5,11,1000),  
 labels=c("social","community","income","elderly","smoke","drugs","housing","mobility","language","education","none"))  
#consider changing the short names to the actual names   
   
 profcareplan=cut(data2[,64],breaks=c(-1,0.5,2,1000),labels=c("No","Yes","N/A"))  
   
   
 SelfMGoals=cut(data2[,65],breaks=c(-1,0.5,2,1000),labels=c("No","Yes","N/A"))  
   
   
 ExtentSelfM=cut(data2[,66],breaks=c(-1,0.5,1.5,2.5,3.5,1000),labels=c("None","Some","Most","All","N/A"))  
   
   
 Pdischwithtrans=cut(data2[,67],breaks=c(-1,0.5,2,1000),labels=c("No","Yes","N/A"))  
   
   
 DischSt=cut(data2[,69],breaks=c(0,1.5,2.5,3.5),labels=c("withdrawal","discharged","death"))  
   
   
 Endorefer=cut(data2[,87],breaks=c(-1,0.5,2),labels=c("no","yes"))  
   
   
 #extract the dates and truned them into Rdate  
 #obtain different duration between admit date and discharge date  
   
 #library(lubridate)  
 referdate=lubridate::dmy(data2[,6])  
   
   
 admitdate=lubridate::dmy(data2[,34])  
   
   
 dischargedate=lubridate::dmy(data2[,68])  
   
   
   
 #dis - data2[,73] #column 73 is numbers of weeeks between admitdate and discharge date as calculated in spreadsheet  
 #summary(as.numeric(dis) - data2[,73]) #checking if the calculation is consisting  
 #column Bu- Time in CCDC doesn't appear in the final spread sheet  
   
 #co-mo is from column 14-23  
 #chronic comlication is from column 24-33  
   
 #made the function for "T=pts has both morbidity and F=pts doesn't have morbidity"  
   
   
   
   
   
 como=t(apply(data2[,14:23],1,extractco))  
 comorep=apply(data2[,14:23],1,hasrepeat)  
 comorep  
 table(comorep)  
 which(!is.na(comorep))  
   
   
 #only co-morbidity has a lot of repeats   
   
 chronic=t(apply(data2[,24:33],1,extractchronic))  
 chronicrep=apply(data2[,24:33],1,hasrepeat)  
 chronicrep  
 table(chronicrep)  
   
 MH=t(apply(data2[,74:78],1,extractMH))  
 MHrep=apply(data2[,74:78],1,hasrepeat)  
 MHrep  
 table(MHrep)  
   
 como=as.data.frame(como)  
 chronic=as.data.frame(chronic)  
 MH=as.data.frame(MH)  
   
   
   
 #make a new dataframe (note that chronic and como factors are displaced one after the other, and chronics factors start from "Cother")  
 dataframe=data.frame(locationf,age=data2[,3],genderf,distance=data2[,5],referdate,repeatreferral,referralfrom,socialissue,  
 data2[,10:13],como,chronic,admitdate,data2[,35:49],DCweight=as.numeric(data2[,50]),data2[,51:63],profcareplan,  
 SelfMGoals,ExtentSelfM,Pdischwithtrans,dischargedate,DischSt,data2[,70:73],MH,data2[,79:86],Endorefer)  
   
   
 #column 59-60: treat 999 N/A   
 return(dataframe)  
}  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
dataframe=Readdata()

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head(dataframe)

## locationf age genderf distance referdate repeatreferral referralfrom  
## 1 HALTON 73 M 6 2013-05-07 No primary  
## 2 HALTON 60 F 16 2013-05-10 No primary  
## 3 HALTON 68 M 18 2013-05-17 No primary  
## 4 HALTON 66 F 16 2013-04-29 No primary  
## 5 HALTON 69 F 6 2013-05-13 No primary  
## 6 HALTON 67 M 1 2013-05-21 No self  
## socialissue DDS.Score.Sub.scale.A\_Emotional.burden..Enrollment.  
## 1 none 1.2  
## 2 social 3  
## 3 none 1.2  
## 4 none 1.2  
## 5 none 2.4  
## 6 none 4.6  
## DDS.Score.Sub.scale.B\_Physician.related.distress..Enrollment.  
## 1 1.3  
## 2 2  
## 3 1.5  
## 4 1.3  
## 5 1.3  
## 6 2.5  
## DDS.Score.Sub.scale.C\_Regimen.related.distress..Enrollment.  
## 1 1.4  
## 2 4  
## 3 3.2  
## 4 1.4  
## 5 1.8  
## 6 5.6  
## DDS.Score.Sub.scale.D\_Interpersonal.distress..Enrollment. Other Eat  
## 1 1 TRUE FALSE  
## 2 3 TRUE FALSE  
## 3 1 FALSE FALSE  
## 4 1 TRUE FALSE  
## 5 1.7 FALSE FALSE  
## 6 4.7 FALSE FALSE  
## Hypert Cardio Kidney Retino Wounds Neuro Liver Vascular Obesity Cancer  
## 1 TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE FALSE  
## 2 TRUE FALSE FALSE FALSE FALSE FALSE TRUE FALSE TRUE FALSE  
## 3 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 4 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE  
## 5 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 6 TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## Lipidd Thyroid Dementia Pulmon sleep HIV Pancreas Celiac Genetic  
## 1 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 2 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 3 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 4 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 5 TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 6 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## Deafblind Mental COther CNeuro CRetino CBlind CCardio CWounds Amput  
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 2 FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE  
## 3 FALSE FALSE TRUE FALSE TRUE FALSE TRUE FALSE FALSE  
## 4 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 5 FALSE FALSE FALSE TRUE TRUE FALSE TRUE FALSE FALSE  
## 6 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## Skin Lipo Hypo Diabetic Foot Stiff Hear Frac Nephro admitdate  
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 2013-05-10  
## 2 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 2013-05-17  
## 3 FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE 2013-05-28  
## 4 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 2013-05-21  
## 5 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE 2013-05-21  
## 6 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE 2013-05-23  
## admit.A1C admit.Blood.Pressure..Systolic.  
## 1 9.8 143  
## 2 12.2 150  
## 3 8.3 120  
## 4 8.8 126  
## 5 10.3 140  
## 6 8.6 170  
## admit.Blood.Pressure..Diastolic. admit.Weight..kg. admit.BMI  
## 1 74 97.0 31.6  
## 2 90 98.0 38.0  
## 3 58 90.3 27.7  
## 4 68 91.8 33.0  
## 5 93 52.4 23.0  
## 6 88 79.0 27.4  
## admit.Waist.circumference..cm. admit.HDL.Cholesterol  
## 1 112 1.03  
## 2 132 1.26  
## 3 109 0.91  
## 4 120 1.21  
## 5 91 1.95  
## 6 113 1.35  
## admit.LDL.Cholesterol admit.Triglycerides admit.Micro.Albumin admit.ACR  
## 1 1.54 2.09 373.7 29.9  
## 2 2.68 1.18 14.1 0.8  
## 3 1.17 0.55 29.0 4.0  
## 4 2.08 0.88 66.0 4.5  
## 5 2.65 0.79 87.3 18.6  
## 6 1.24 1.27 33.0 4.1  
## admit.eGFR D.C.A1C D.C.Blood.Pressure..Systolic.  
## 1 56 NA NA  
## 2 87 6.6 142  
## 3 76 8.0 128  
## 4 90 7.6 110  
## 5 15 9.4 110  
## 6 80 8.0 120  
## D.C.Blood.Pressure..Diastolic. DCweight D.C.BMI  
## 1 NA 1 NA  
## 2 70 9 39.6  
## 3 60 286 27.5  
## 4 78 316 36.1  
## 5 60 113 23.8  
## 6 84 237 27.7  
## D.C.Waist.circumference..cm. D.C.HDL.Cholesterol D.C.LDL.Cholesterol  
## 1 NA NA NA  
## 2 132.0 1.24 2.18  
## 3 110.0 1.09 1.28  
## 4 114.3 1.19 2.01  
## 5 78.0 2.09 1.81  
## 6 97.0 1.33 1.31  
## D.C.Triglycerides D.C.Micro.Albumin D.C.ACR D.C.eGFR  
## 1 NA NA NA NA  
## 2 0.98 9.0 0.5 94  
## 3 0.44 7.0 0.8 79  
## 4 0.79 57.0 5.8 96  
## 5 0.77 90.7 34.9 15  
## 6 1.63 18.0 2.9 75  
## DDS.Score.Sub.scale.A\_Emotional.Burden..Discharge.  
## 1 NA  
## 2 2.0  
## 3 1.0  
## 4 1.2  
## 5 999.0  
## 6 NA  
## DDS.Score.Sub.scale.B\_Physician.related.distress..Discharge.  
## 1 NA  
## 2 1.0  
## 3 1.0  
## 4 1.5  
## 5 999.0  
## 6 NA  
## DDS.Score.Sub.scale.C\_Regimen.related.distress..Discharge.  
## 1 NA  
## 2 1  
## 3 2  
## 4 1  
## 5 NA  
## 6 NA  
## DDS.Score.Sub.scale.D\_Interpersonal.distress..Discharge.  
## 1 NA  
## 2 1  
## 3 1  
## 4 1  
## 5 NA  
## 6 NA  
## PACIC..Overall..Score profcareplan SelfMGoals ExtentSelfM  
## 1 NA Yes Yes None  
## 2 3.10 Yes Yes Some  
## 3 3.90 Yes Yes Most  
## 4 3.65 Yes Yes Most  
## 5 NA Yes Yes Some  
## 6 NA Yes Yes Some  
## Pdischwithtrans dischargedate DischSt  
## 1 N/A 2013-11-06 withdrawal  
## 2 Yes 2014-04-30 discharged  
## 3 Yes 2014-06-17 discharged  
## 4 Yes 2014-08-15 discharged  
## 5 N/A 2015-03-20 death  
## 6 Yes 2013-12-12 discharged  
## X..of.Diabetes.Related.ER.Visits.in.year.prior.to.CCDC.registration  
## 1 0  
## 2 1  
## 3 3  
## 4 0  
## 5 1  
## 6 0  
## X..of.Diabetes.Related.Hospital.visits.in.year.prior.to.CCDC.registration  
## 1 0  
## 2 0  
## 3 2  
## 4 0  
## 5 3  
## 6 2  
## D.C.Total...of.Diabetes.Related.ER.Visits  
## 1 0  
## 2 0  
## 3 0  
## 4 0  
## 5 7  
## 6 1  
## D.C.Total...of.Diabetes.Related.Hospital.Visits depress OCD  
## 1 0 FALSE FALSE  
## 2 0 TRUE FALSE  
## 3 0 FALSE FALSE  
## 4 0 FALSE FALSE  
## 5 2 FALSE FALSE  
## 6 0 FALSE FALSE  
## schizophrenia alcoholism bipolar anxiety develop delusional psychosis  
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 2 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 3 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 4 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 5 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 6 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## mood drug adjustment alzheimers cognitive personality klinfelter PTSD  
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 2 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 3 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 4 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 5 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 6 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## agaraphobia binge panic cope socialanx manic hoarding eating  
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 2 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 3 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 4 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 5 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 6 FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## maladaptive imsomnia clusterc schizo ADD generalizeanx addiction  
## 1 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 2 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 3 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 4 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 5 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## 6 FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## Total...of.appts.with.Nurse.Practitioner  
## 1 0  
## 2 9  
## 3 6  
## 4 5  
## 5 1  
## 6 0  
## Total...of.appts.with.Registered.Nurse  
## 1 0  
## 2 4  
## 3 1  
## 4 2  
## 5 14  
## 6 1  
## Total...of.appts.with.Registered.Dietitian  
## 1 1  
## 2 2  
## 3 1  
## 4 1  
## 5 5  
## 6 1  
## Total...of.appts.with.Social.Worker Total...of.appts.with.Pharmacist  
## 1 0 1  
## 2 7 0  
## 3 0 5  
## 4 0 3  
## 5 0 1  
## 6 0 1  
## Total...of.appts.with.Chiropodist.Wound.Care  
## 1 0  
## 2 0  
## 3 1  
## 4 2  
## 5 0  
## 6 0  
## Total...of.appts.with.Psychologist.Psychiatrist  
## 1 0  
## 2 0  
## 3 0  
## 4 0  
## 5 0  
## 6 0  
## Total...of.appts.with.Kinesiologist Endorefer  
## 1 0 no  
## 2 0 no  
## 3 0 no  
## 4 0 no  
## 5 0 no  
## 6 0 no

# 1.Numbers of male and female patients from each site:

outofregions <- table(dataframe$locationf,dataframe$genderf)  
outofregions

##   
## M F  
## HALTON 87 69  
## MISSISSAUGA 257 209

prop.table(outofregions,margin=1)

##   
## M F  
## HALTON 0.5576923 0.4423077  
## MISSISSAUGA 0.5515021 0.4484979

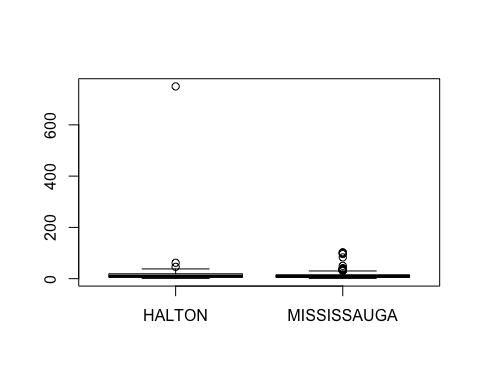
no effect of genders - same percentage of males and females from both regions

boxplot(dataframe$age~dataframe$locationf)



outlier on Missussauga site no great difference in midean and spread for both sites

boxplot(dataframe$distance~dataframe$locationf)

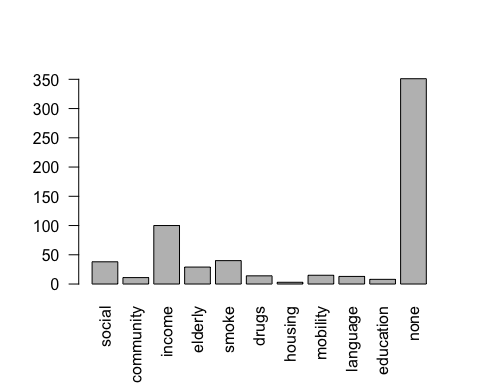


one outlier on the Halton site (a patient who travel over 750km to get to Halton- ture?) #2.numbers of patients with each social issue:

socialissues <- table(dataframe$socialissue)  
socialissues

##   
## social community income elderly smoke drugs housing   
## 38 11 100 29 40 14 3   
## mobility language education none   
## 15 13 8 351

plot(dataframe$socialissue,las=2)



compare to the impactful issues you mentioned, the following social issues appears to be more frequent: low income, social support, smoking, elderly #4.numbers of patients with each co-morbidity

table(dataframe$Other)

##   
## FALSE TRUE   
## 392 230

table(dataframe$Eat)

##   
## FALSE TRUE   
## 614 8

#still working on producing a table that contains all the co-mobidity in a row with numbers counts for each co-mobidity

# 5.numbers of patients with mental health as co-morbidity:

comomental <- table(dataframe$Mental)  
comomental

##   
## FALSE TRUE   
## 433 189

which(dataframe$Mental)

## [1] 2 7 9 10 11 26 27 31 32 38 40 41 46 52 56 69 78  
## [18] 80 85 87 94 96 97 104 110 112 122 123 124 127 128 134 135 150  
## [35] 159 161 166 167 169 170 174 176 178 179 181 190 191 195 197 198 199  
## [52] 200 204 207 208 210 213 215 227 230 232 241 248 249 251 253 257 259  
## [69] 261 265 266 270 272 273 274 277 279 284 285 291 292 293 295 302 303  
## [86] 316 317 320 324 325 327 329 330 332 340 342 344 345 352 354 356 357  
## [103] 361 367 368 371 374 379 383 387 389 396 399 404 405 409 411 412 416  
## [120] 419 420 421 424 425 426 430 432 433 437 446 452 456 457 463 467 468  
## [137] 469 470 475 478 479 482 485 487 488 489 490 491 493 498 499 501 503  
## [154] 506 515 517 521 524 525 530 531 533 536 538 542 547 550 555 556 558  
## [171] 561 565 568 577 582 584 589 590 592 594 595 597 601 605 607 609 614  
## [188] 618 622

still need to verify the the correct numebrs of patients have mental health as co-morbidity due to some repeated value issue numbers of patients with "other" as co-morbidity

conmoother <- table(dataframe$Other)  
conmoother

##   
## FALSE TRUE   
## 392 230

which(dataframe$Other)

## [1] 1 2 4 12 14 18 22 23 24 25 36 40 41 43 44 45 48  
## [18] 49 53 59 60 61 62 64 65 66 69 70 74 75 78 80 89 92  
## [35] 94 104 112 114 119 120 134 139 144 146 151 156 159 162 165 167 168  
## [52] 170 172 175 177 178 179 181 186 192 193 196 197 198 199 200 201 202  
## [69] 203 205 206 208 209 210 211 212 214 217 219 220 224 228 229 230 232  
## [86] 241 247 249 250 254 257 258 263 270 271 273 274 275 276 278 279 283  
## [103] 286 287 288 292 293 294 296 299 304 305 313 314 316 319 324 326 331  
## [120] 341 342 343 346 347 349 350 352 354 355 360 362 364 366 368 371 373  
## [137] 376 379 381 383 389 391 393 394 397 398 399 400 408 409 410 411 417  
## [154] 421 422 423 426 427 428 429 430 431 432 440 445 448 453 454 457 458  
## [171] 459 462 466 467 468 469 471 473 474 478 480 481 483 485 487 488 490  
## [188] 492 494 496 501 502 509 521 522 524 525 530 533 538 541 542 545 546  
## [205] 558 559 561 563 564 567 568 570 571 573 576 582 584 586 589 592 596  
## [222] 602 604 607 608 610 612 613 617 619

#335 vs. 230 --> very big difference

numbers of patients with "eat" as co-morbidity

comoeat <- table(dataframe$Eat)  
comoeat

##   
## FALSE TRUE   
## 614 8

#this is the same total numbers as per excel calculated  
  
chronicother <- table(dataframe$COther)  
chronicother

##   
## FALSE TRUE   
## 593 29

chronicamputation <- table(dataframe$Amput)  
chronicamputation

##   
## FALSE TRUE   
## 615 7

#chronic numebrs are correct, no repeats

# 6. protions of F and M have metal health issue as co-morbidity

comomental <- table(dataframe$Mental,dataframe$genderf)  
comomental

##   
## M F  
## FALSE 257 176  
## TRUE 87 102

prop.table(comomental,margin=1)

##   
## M F  
## FALSE 0.5935335 0.4064665  
## TRUE 0.4603175 0.5396825

more females have mental health as co-morbidity #7.logistic data-mental vs. admit A1C

logisticmentaladmitedA1C=glm(dataframe$Mental~dataframe$admit.A1C,family="binomial")  
summary(logisticmentaladmitedA1C)

##   
## Call:  
## glm(formula = dataframe$Mental ~ dataframe$admit.A1C, family = "binomial")  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -0.9752 -0.8500 -0.8230 1.5110 1.6379   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -1.22919 0.36300 -3.386 0.000709 \*\*\*  
## dataframe$admit.A1C 0.03817 0.03475 1.098 0.272000   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 748.37 on 611 degrees of freedom  
## Residual deviance: 747.17 on 610 degrees of freedom  
## (10 observations deleted due to missingness)  
## AIC: 751.17  
##   
## Number of Fisher Scoring iterations: 4

not significant #8.logistic data-mental vs. discharged A1C

logisticmentaldischargedA1C=glm(dataframe$Mental~dataframe$D.C.A1C,family="binomial")  
summary(logisticmentaldischargedA1C)

##   
## Call:  
## glm(formula = dataframe$Mental ~ dataframe$D.C.A1C, family = "binomial")  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -1.0972 -0.8245 -0.7860 1.4651 1.7013   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -1.71856 0.43811 -3.923 8.76e-05 \*\*\*  
## dataframe$D.C.A1C 0.10179 0.05282 1.927 0.054 .   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 620.27 on 515 degrees of freedom  
## Residual deviance: 616.61 on 514 degrees of freedom  
## (106 observations deleted due to missingness)  
## AIC: 620.61  
##   
## Number of Fisher Scoring iterations: 4

almost significant slope is positive = meaning as discharged A1C level increase, the patients are more likely to have mental health issue as one of co-morbidity #9.the range of co-morbidities/complication?? #10.average # of co-morbidities #11.comparing admit and discharged clinical metrics:

#A1C lelvel:  
aggregate(cbind(admit.A1C,D.C.A1C)~genderf,data=dataframe,mean)

## genderf admit.A1C D.C.A1C  
## 1 M 9.809375 7.859028  
## 2 F 10.152889 8.087556

average Dischaged A1C level is lower for both male and female! Yes!

#Lipids level(HDL cholesterol):  
aggregate(cbind(admit.HDL.Cholesterol, D.C.HDL.Cholesterol)~genderf,data=dataframe,mean)

## genderf admit.HDL.Cholesterol D.C.HDL.Cholesterol  
## 1 M 1.227614 1.119773  
## 2 F 1.254721 1.252132

#lower discharged HDL cholesterol level in male, but same for female   
  
#Lipids level(LDL cholesterol):  
aggregate(cbind(admit.LDL.Cholesterol, D.C.LDL.Cholesterol)~genderf,data=dataframe,mean)

## genderf admit.LDL.Cholesterol D.C.LDL.Cholesterol  
## 1 M 2.128773 1.912112  
## 2 F 2.435670 2.192474

#both male and female have lower discharged LDL cholesterol levle = good thing!   
  
#eGFR:  
aggregate(cbind(admit.eGFR, D.C.eGFR)~genderf,data=dataframe,mean)

## genderf admit.eGFR D.C.eGFR  
## 1 M 78.00000 75.19940  
## 2 F 78.92228 77.79793

#both male and female have lower discharged eGFR levle  
  
#Micro Albumin  
aggregate(cbind(admit.Micro.Albumin, D.C.Micro.Albumin)~genderf,data=dataframe,mean)

## genderf admit.Micro.Albumin D.C.Micro.Albumin  
## 1 M 318.6737 453.2105  
## 2 F 251.3692 191.0652

#increase discharged microalbumin level for male, but decrease discharged microalbumin for female  
  
#12.??Change in QoL index (which is DDS – Diabetes Distress Survey) = DDS Score Sub-scale B\_Physician related distress (Discharge)  
  
  
#13. Change in clinical metrics for subgroups: mental health patients  
dataframe$Mental

## [1] FALSE TRUE FALSE FALSE FALSE FALSE TRUE FALSE TRUE TRUE TRUE  
## [12] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [23] FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE TRUE TRUE FALSE  
## [34] FALSE FALSE FALSE FALSE TRUE FALSE TRUE TRUE FALSE FALSE FALSE  
## [45] FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE  
## [56] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [67] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [78] TRUE FALSE TRUE FALSE FALSE FALSE FALSE TRUE FALSE TRUE FALSE  
## [89] FALSE FALSE FALSE FALSE FALSE TRUE FALSE TRUE TRUE FALSE FALSE  
## [100] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE  
## [111] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [122] TRUE TRUE TRUE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE  
## [133] FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [144] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE  
## [155] FALSE FALSE FALSE FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE  
## [166] TRUE TRUE FALSE TRUE TRUE FALSE FALSE FALSE TRUE FALSE TRUE  
## [177] FALSE TRUE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE  
## [188] FALSE FALSE TRUE TRUE FALSE FALSE FALSE TRUE FALSE TRUE TRUE  
## [199] TRUE TRUE FALSE FALSE FALSE TRUE FALSE FALSE TRUE TRUE FALSE  
## [210] TRUE FALSE FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE  
## [221] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE TRUE FALSE  
## [232] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE  
## [243] FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE TRUE FALSE TRUE  
## [254] FALSE FALSE FALSE TRUE FALSE TRUE FALSE TRUE FALSE FALSE FALSE  
## [265] TRUE TRUE FALSE FALSE FALSE TRUE FALSE TRUE TRUE TRUE FALSE  
## [276] FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE TRUE TRUE FALSE  
## [287] FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE TRUE FALSE FALSE  
## [298] FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE  
## [309] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE  
## [320] TRUE FALSE FALSE FALSE TRUE TRUE FALSE TRUE FALSE TRUE TRUE  
## [331] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE  
## [342] TRUE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [353] FALSE TRUE FALSE TRUE TRUE FALSE FALSE FALSE TRUE FALSE FALSE  
## [364] FALSE FALSE FALSE TRUE TRUE FALSE FALSE TRUE FALSE FALSE TRUE  
## [375] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE TRUE FALSE FALSE  
## [386] FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [397] FALSE FALSE TRUE FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE  
## [408] FALSE TRUE FALSE TRUE TRUE FALSE FALSE FALSE TRUE FALSE FALSE  
## [419] TRUE TRUE TRUE FALSE FALSE TRUE TRUE TRUE FALSE FALSE FALSE  
## [430] TRUE FALSE TRUE TRUE FALSE FALSE FALSE TRUE FALSE FALSE FALSE  
## [441] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE  
## [452] TRUE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE  
## [463] TRUE FALSE FALSE FALSE TRUE TRUE TRUE TRUE FALSE FALSE FALSE  
## [474] FALSE TRUE FALSE FALSE TRUE TRUE FALSE FALSE TRUE FALSE FALSE  
## [485] TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE FALSE FALSE  
## [496] FALSE FALSE TRUE TRUE FALSE TRUE FALSE TRUE FALSE FALSE TRUE  
## [507] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE TRUE  
## [518] FALSE FALSE FALSE TRUE FALSE FALSE TRUE TRUE FALSE FALSE FALSE  
## [529] FALSE TRUE TRUE FALSE TRUE FALSE FALSE TRUE FALSE TRUE FALSE  
## [540] FALSE FALSE TRUE FALSE FALSE FALSE FALSE TRUE FALSE FALSE TRUE  
## [551] FALSE FALSE FALSE FALSE TRUE TRUE FALSE TRUE FALSE FALSE TRUE  
## [562] FALSE FALSE FALSE TRUE FALSE FALSE TRUE FALSE FALSE FALSE FALSE  
## [573] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE TRUE FALSE  
## [584] TRUE FALSE FALSE FALSE FALSE TRUE TRUE FALSE TRUE FALSE TRUE  
## [595] TRUE FALSE TRUE FALSE FALSE FALSE TRUE FALSE FALSE FALSE TRUE  
## [606] FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [617] FALSE TRUE FALSE FALSE FALSE TRUE

#extract patients with "Ture" on mental health, then compare the admit and discharge clinical matrix among those patients  
  
#14. Change in clinical metrics for subgroups: patients with wounds   
dataframe$CWounds

## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE  
## [12] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [23] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [34] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [45] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [56] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [67] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [78] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [89] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [100] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE  
## [111] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [122] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [133] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [144] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [155] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [166] FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE TRUE FALSE  
## [177] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [188] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE  
## [199] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [210] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [221] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [232] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [243] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [254] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [265] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [276] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [287] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [298] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [309] FALSE FALSE FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE  
## [320] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE  
## [331] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [342] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [353] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [364] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [375] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [386] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [397] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [408] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [419] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [430] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [441] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE  
## [452] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [463] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [474] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [485] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [496] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE  
## [507] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [518] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [529] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [540] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [551] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [562] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [573] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [584] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE  
## [595] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [606] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [617] TRUE FALSE FALSE FALSE FALSE FALSE

#14. Change in clinical metrics for subgroups: frail elderly patients  
#extract patients with age >70???

thi is a junk comment