

Table One - enriched

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Import

```
dta<-read.csv("/Volumes/Data/depression/dep_dataset.csv")
```

Formatting

```
dta$diabetes<-factor(dta$diabetes)
dta$pad<-factor(dta$pad)
dta$civil<-factor(dta$civil)
dta$hypertension<-factor(dta$hypertension)
dta$aflia<-factor(dta$aflia)
dta$smoke_ever<-factor(dta$smoke_ever)
dta$ami<-factor(dta$ami)
dta$tci<-factor(dta$tci)
dta$thrombolysis<-factor(dta$thrombolysis)
dta$thrombectomy<-factor(dta$thrombectomy)
dta$rep_any<-factor(dta$rep_any)
dta$pad<-factor(dta$pad)
dta$nihss_0<-as.numeric(dta$nihss_0)
dta$age<-as.numeric(dta$age)
dta$rtreat<-factor(dta$rtreat)
dta$sex<-factor(dta$sex)
dta$pase_0<-as.numeric(dta$pase_0)
dta$bmi<-as.numeric(dta$bmi)
dta$mdi_6<-as.numeric(dta$mdi_6)
dta$inc_time<-as.numeric(dta$inc_time)

dta$bmi_isna<-is.na(dta$bmi)
dta$nihss_0_isna<-is.na(dta$nihss_0)
```

Defining patients to include for analysis

```
library(dplyr)
```

Only including cases with complete pase_0 and MDI at 1 & 6 months

```
dta<-dta[!is.na(dta$pase_0),]  
# !is.na(dta$mdi_1)!is.na(dta$mdi_6)
```

Defining table one stratification

```
dta$strat_table_one<-factor(case_when(dta$excluded_6%in%c("mi_6","ex_6")~"zExcluded",  
  dta$pase_0_bin=="lower"~"xLower",  
  dta$pase_0_bin=="higher"~"yHigher"))  
  
summary(dta$strat_table_one)
```

```
##      xLower  yHigher zExcluded  
##         240      268      117
```

```
dta$in_ex<-plyr::mapvalues(dta$strat_table_one,  
  from=c("xLower", "yHigher"),  
  to=c("xIncluded", "xIncluded"))  
# summary(dta$in_ex)
```

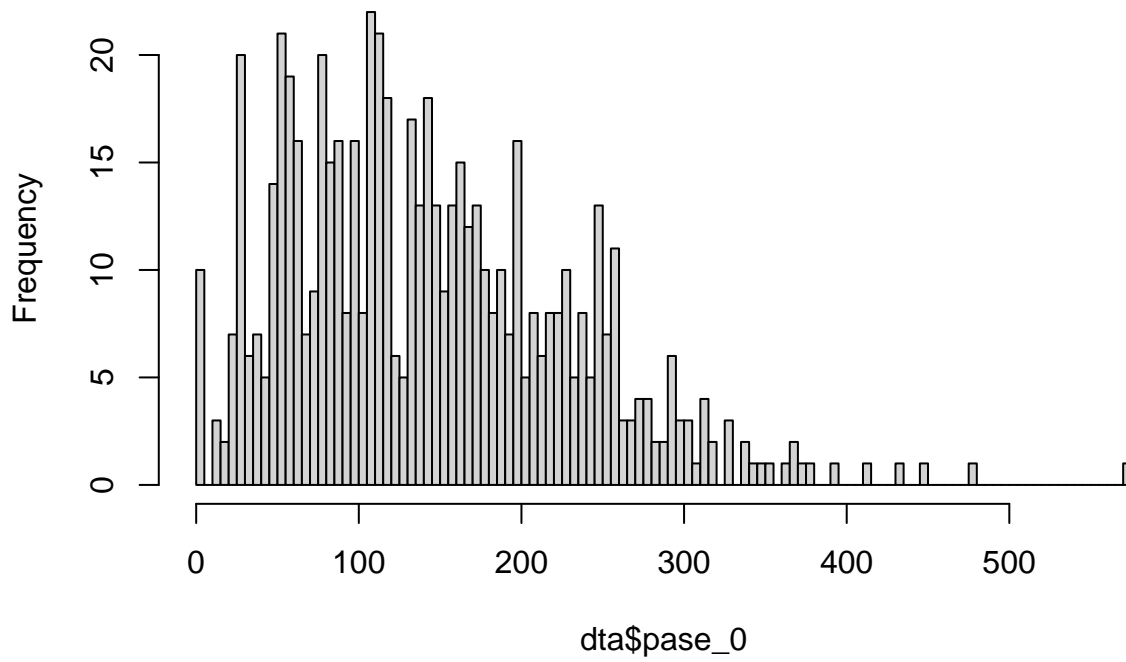
Basic analyses

```
show(mdn<-median(dta$pase_0))
```

```
## [1] 132.5
```

```
hist(dta$pase_0,100)
```

Histogram of dta\$pase_0



```
hist(sqrt(dta$pase_0),100)
```

Histogram of sqrt(dta\$pase_0)

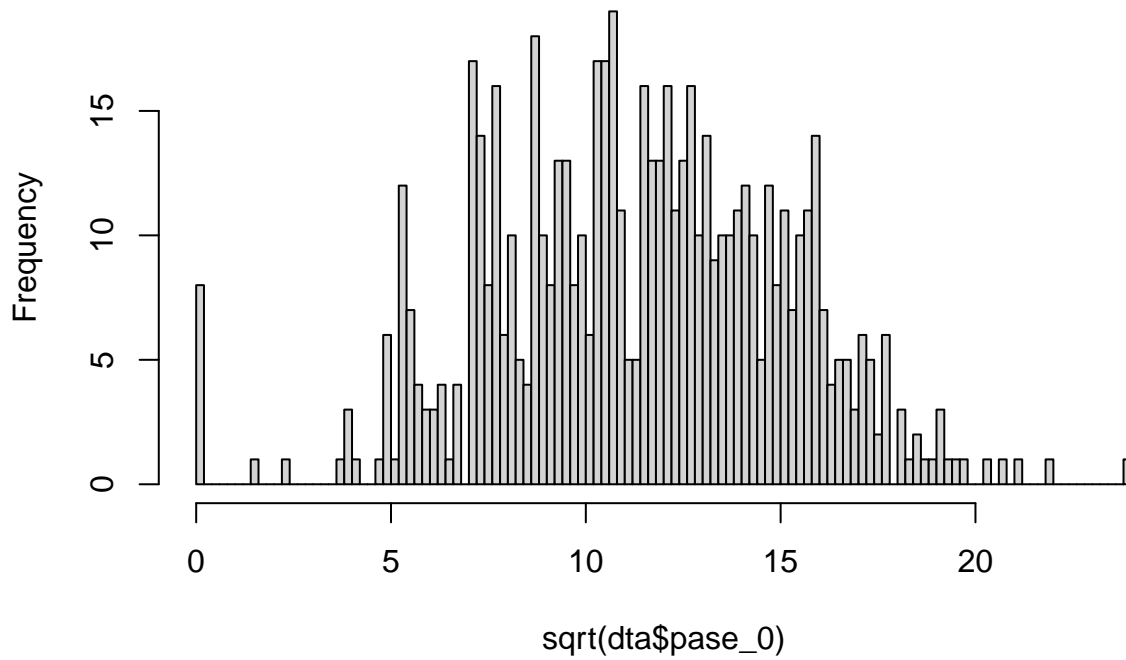


Table One

```
library(tableone)
```

```
tbl_norm<-c("rtreat","age","sex","bmi","bmi_isna","smoke_ever","civil","diabetes",
            "hypertension", "afli", "ami", "tci","pad","nihss_0","nihss_0_isna",
            "thrombolysis", "thrombechtomy","rep_any","inc_time")

tbl_cat<-c("rtreat","sex","bmi_isna","diabetes", "hypertension", "smoke_ever","civil",
           "ami", "tci","nihss_0_isna", "thrombolysis", "thrombechtomy", "rep_any")

tbl_non<-c("age","nihss_0","inc_time")
```

```
tbl1 <- CreateTableOne(vars = tbl_norm, data = dta,
                      factorVars = tbl_cat,includeNA = TRUE)

tbl1_1<-print(tbl1, contDigits = 1, missing=T,showAllLevels=T ,
             nonnormal = tbl_non, smd = FALSE, quote = F, noSpaces = TRUE)
```

```
##
##           level Overall           Missing
## n                625
## rtreat (%)      Active 309 (49.4)         0.0
##                Placebo 316 (50.6)
## age (median [IQR]) 69.0 [60.0, 77.0]     0.0
## sex (%)         female 215 (34.4)         0.0
##                male   410 (65.6)
## bmi (mean (SD))  27.1 (5.0)              27.0
## bmi_isna (%)    FALSE 456 (73.0)         0.0
##                TRUE  169 (27.0)
## smoke_ever (%)  ever   195 (31.2)         2.7
##                never  413 (66.1)
##                <NA>   17 (2.7)
## civil (%)      alone  208 (33.3)         0.0
##                partner 409 (65.4)
##                unknown 8 (1.3)
## diabetes (%)   no     547 (87.5)         1.1
##                yes    71 (11.4)
##                <NA>   7 (1.1)
## hypertension (%) no     295 (47.2)         0.8
##                yes    325 (52.0)
##                <NA>   5 (0.8)
## afli (%)       no     516 (82.6)         0.0
##                unknown 7 (1.1)
##                yes    102 (16.3)
## ami (%)        no     564 (90.2)         1.4
##                yes    52 (8.3)
##                <NA>   9 (1.4)
## tci (%)        no     600 (96.0)         1.4
##                yes    16 (2.6)
##                <NA>   9 (1.4)
```

```
## pad (%) no 586 (93.8) 2.2
## yes 25 (4.0)
## <NA> 14 (2.2)
## nihss_0 (median [IQR]) 3.0 [2.0, 6.0] 1.9
## nihss_0_isna (%) FALSE 613 (98.1) 0.0
## TRUE 12 (1.9)
## thrombolysis (%) no 396 (63.4) 0.0
## yes 229 (36.6)
## thrombechtomy (%) no 581 (93.0) 0.0
## yes 44 (7.0)
## rep_any (%) no 388 (62.1) 0.0
## rep 237 (37.9)
## inc_time (median [IQR]) 180.0 [161.0, 185.0] 0.0
```

```
tab2 <- CreateTableOne(vars = tbl_norm, strata="pase_0_bin",
  data = dta, factorVars = tbl_cat, includeNA = T)
```

```
tbl1_2<-print(tab2, contDigits = 1, missing=T, showAllLevels=T,
  nonnormal = tbl_non, smd = F, test = T, quote = F, noSpaces = TRUE)
```

```
## Stratified by pase_0_bin
## level higher lower
## n 312 313
## rtreat (%) Active 156 (50.0) 153 (48.9)
## Placebo 156 (50.0) 160 (51.1)
## age (median [IQR]) 63.0 [54.0, 71.0] 74.0 [67.0, 80.0]
## sex (%) female 82 (26.3) 133 (42.5)
## male 230 (73.7) 180 (57.5)
## bmi (mean (SD)) 27.7 (5.1) 26.5 (4.9)
## bmi_isna (%) FALSE 224 (71.8) 232 (74.1)
## TRUE 88 (28.2) 81 (25.9)
## smoke_ever (%) ever 110 (35.3) 85 (27.2)
## never 193 (61.9) 220 (70.3)
## <NA> 9 (2.9) 8 (2.6)
## civil (%) alone 80 (25.6) 128 (40.9)
## partner 227 (72.8) 182 (58.1)
## unknown 5 (1.6) 3 (1.0)
## diabetes (%) no 278 (89.1) 269 (85.9)
## yes 30 (9.6) 41 (13.1)
## <NA> 4 (1.3) 3 (1.0)
## hypertension (%) no 173 (55.4) 122 (39.0)
## yes 135 (43.3) 190 (60.7)
## <NA> 4 (1.3) 1 (0.3)
## afli (%) no 269 (86.2) 247 (78.9)
## unknown 4 (1.3) 3 (1.0)
## yes 39 (12.5) 63 (20.1)
## ami (%) no 283 (90.7) 281 (89.8)
## yes 22 (7.1) 30 (9.6)
## <NA> 7 (2.2) 2 (0.6)
## tci (%) no 299 (95.8) 301 (96.2)
## yes 8 (2.6) 8 (2.6)
## <NA> 5 (1.6) 4 (1.3)
## pad (%) no 297 (95.2) 289 (92.3)
## yes 8 (2.6) 17 (5.4)
```

```

##          <NA>      7 (2.2)          7 (2.2)
## nihss_0 (median [IQR])      3.0 [2.0, 5.0]      3.0 [2.0, 6.0]
## nihss_0_isna (%)      FALSE      306 (98.1)      307 (98.1)
##          TRUE       6 (1.9)          6 (1.9)
## thrombolysis (%)      no       192 (61.5)      204 (65.2)
##          yes       120 (38.5)      109 (34.8)
## thrombechtomy (%)      no       294 (94.2)      287 (91.7)
##          yes       18 (5.8)         26 (8.3)
## rep_any (%)          no       188 (60.3)      200 (63.9)
##          rep       124 (39.7)      113 (36.1)
## inc_time (median [IQR])      181.0 [169.0, 186.0] 179.0 [120.0, 184.0]
##          Stratified by pase_0_bin
##          p      test      Missing
## n
## rtreat (%)          0.842          0.0
##
## age (median [IQR])      <0.001 nonnorm 0.0
## sex (%)              <0.001          0.0
##
## bmi (mean (SD))       0.014          27.0
## bmi_isna (%)         0.572          0.0
##
## smoke_ever (%)       0.081          2.7
##
##
## civil (%)            <0.001          0.0
##
##
## diabetes (%)         0.369          1.1
##
##
## hypertension (%)     <0.001          0.8
##
##
## afli (%)             0.035          0.0
##
##
## ami (%)              0.134          1.4
##
##
## tci (%)              0.944          1.4
##
##
## pad (%)              0.188          2.2
##
##
## nihss_0 (median [IQR]) 0.078 nonnorm 1.9
## nihss_0_isna (%)      1.000          0.0
##
## thrombolysis (%)     0.389          0.0
##
## thrombechtomy (%)    0.279          0.0
##
## rep_any (%)          0.392          0.0

```

```
##
## inc_time (median [IQR]) 0.023 nonnorm 0.0
```

```
tab3 <- CreateTableOne(vars = tbl_norm, strata="strat_table_one",
  data = dta, factorVars = tbl_cat, includeNA = T)
tbl1_3<-print(tab3, contDigits = 1, missing=T, showAllLevels=T,
  nonnormal = tbl_non, smd = F, test = T, quote = F, noSpaces = TRUE)
```

```
##
## Stratified by strat_table_one
## level xLower yHigher
## n 240 268
## rtreat (%) Active 112 (46.7) 135 (50.4)
## Placebo 128 (53.3) 133 (49.6)
## age (median [IQR]) 73.0 [66.0, 79.0] 63.0 [54.8, 71.0]
## sex (%) female 102 (42.5) 74 (27.6)
## male 138 (57.5) 194 (72.4)
## bmi (mean (SD)) 26.9 (4.9) 27.5 (5.1)
## bmi_isna (%) FALSE 181 (75.4) 191 (71.3)
## TRUE 59 (24.6) 77 (28.7)
## smoke_ever (%) ever 66 (27.5) 104 (38.8)
## never 168 (70.0) 157 (58.6)
## <NA> 6 (2.5) 7 (2.6)
## civil (%) alone 95 (39.6) 69 (25.7)
## partner 143 (59.6) 195 (72.8)
## unknown 2 (0.8) 4 (1.5)
## diabetes (%) no 210 (87.5) 241 (89.9)
## yes 28 (11.7) 24 (9.0)
## <NA> 2 (0.8) 3 (1.1)
## hypertension (%) no 94 (39.2) 154 (57.5)
## yes 146 (60.8) 111 (41.4)
## <NA> 0 (0.0) 3 (1.1)
## afli (%) no 193 (80.4) 233 (86.9)
## unknown 2 (0.8) 3 (1.1)
## yes 45 (18.8) 32 (11.9)
## ami (%) no 216 (90.0) 245 (91.4)
## yes 23 (9.6) 18 (6.7)
## <NA> 1 (0.4) 5 (1.9)
## tci (%) no 231 (96.2) 258 (96.3)
## yes 7 (2.9) 6 (2.2)
## <NA> 2 (0.8) 4 (1.5)
## pad (%) no 222 (92.5) 256 (95.5)
## yes 14 (5.8) 7 (2.6)
## <NA> 4 (1.7) 5 (1.9)
## nihss_0 (median [IQR]) 3.0 [2.0, 6.0] 3.0 [2.0, 5.0]
## nihss_0_isna (%) FALSE 236 (98.3) 262 (97.8)
## TRUE 4 (1.7) 6 (2.2)
## thrombolysis (%) no 157 (65.4) 166 (61.9)
## yes 83 (34.6) 102 (38.1)
## thrombechtomy (%) no 219 (91.2) 253 (94.4)
## yes 21 (8.8) 15 (5.6)
## rep_any (%) no 153 (63.7) 163 (60.8)
## rep 87 (36.2) 105 (39.2)
## inc_time (median [IQR]) 181.0 [175.0, 185.0] 181.0 [175.0, 187.0]
##
## Stratified by strat_table_one
```

```

##          zExcluded      p      test      Missing
##  n          117
##  rtreat (%)      62 (53.0)      0.491          0.0
##          55 (47.0)
##  age (median [IQR])      72.0 [62.0, 79.0] <0.001 nonnorm 0.0
##  sex (%)          39 (33.3)      0.002          0.0
##          78 (66.7)
##  bmi (mean (SD))      26.4 (4.9)      0.203          27.0
##  bmi_isna (%)      84 (71.8)      0.548          0.0
##          33 (28.2)
##  smoke_ever (%)      25 (21.4)      0.007          2.7
##          88 (75.2)
##          4 (3.4)
##  civil (%)          44 (37.6)      0.013          0.0
##          71 (60.7)
##          2 (1.7)
##  diabetes (%)      96 (82.1)      0.292          1.1
##          19 (16.2)
##          2 (1.7)
##  hypertension (%)      47 (40.2)      <0.001          0.8
##          68 (58.1)
##          2 (1.7)
##  afli (%)          90 (76.9)      0.108          0.0
##          2 (1.7)
##          25 (21.4)
##  ami (%)          103 (88.0)      0.323          1.4
##          11 (9.4)
##          3 (2.6)
##  tci (%)          111 (94.9)      0.756          1.4
##          3 (2.6)
##          3 (2.6)
##  pad (%)          108 (92.3)      0.182          2.2
##          4 (3.4)
##          5 (4.3)
##  nihss_0 (median [IQR])      4.0 [2.0, 8.0]      0.082 nonnorm 1.9
##  nihss_0_isna (%)      115 (98.3)      0.881          0.0
##          2 (1.7)
##  thrombolysis (%)      73 (62.4)      0.699          0.0
##          44 (37.6)
##  thrombechtomy (%)      109 (93.2)      0.381          0.0
##          8 (6.8)
##  rep_any (%)          72 (61.5)      0.787          0.0
##          45 (38.5)
##  inc_time (median [IQR])      24.0 [11.0, 130.0] <0.001 nonnorm 0.0

```

```

tab4 <- CreateTableOne(vars = tbl_norm, strata="in_ex",
  data = dta, factorVars = tbl_cat, includeNA = T)

tbl1_4 <- print(tab4, contDigits = 1, missing=T, showAllLevels=T,
  nonnormal = tbl_non, smd = F, test = T, quote = F, noSpaces = TRUE)

```

```

##          Stratified by in_ex
##          level  xIncluded      zExcluded
##  n          508          117

```


##	rtreat (%)	Active	247 (48.6)	62 (53.0)
##		Placebo	261 (51.4)	55 (47.0)
##	age (median [IQR])		69.0 [59.0, 77.0]	72.0 [62.0, 79.0]
##	sex (%)	female	176 (34.6)	39 (33.3)
##		male	332 (65.4)	78 (66.7)
##	bmi (mean (SD))		27.2 (5.0)	26.4 (4.9)
##	bmi_isna (%)	FALSE	372 (73.2)	84 (71.8)
##		TRUE	136 (26.8)	33 (28.2)
##	smoke_ever (%)	ever	170 (33.5)	25 (21.4)
##		never	325 (64.0)	88 (75.2)
##		<NA>	13 (2.6)	4 (3.4)
##	civil (%)	alone	164 (32.3)	44 (37.6)
##		partner	338 (66.5)	71 (60.7)
##		unknown	6 (1.2)	2 (1.7)
##	diabetes (%)	no	451 (88.8)	96 (82.1)
##		yes	52 (10.2)	19 (16.2)
##		<NA>	5 (1.0)	2 (1.7)
##	hypertension (%)	no	248 (48.8)	47 (40.2)
##		yes	257 (50.6)	68 (58.1)
##		<NA>	3 (0.6)	2 (1.7)
##	afli (%)	no	426 (83.9)	90 (76.9)
##		unknown	5 (1.0)	2 (1.7)
##		yes	77 (15.2)	25 (21.4)
##	ami (%)	no	461 (90.7)	103 (88.0)
##		yes	41 (8.1)	11 (9.4)
##		<NA>	6 (1.2)	3 (2.6)
##	tci (%)	no	489 (96.3)	111 (94.9)
##		yes	13 (2.6)	3 (2.6)
##		<NA>	6 (1.2)	3 (2.6)
##	pad (%)	no	478 (94.1)	108 (92.3)
##		yes	21 (4.1)	4 (3.4)
##		<NA>	9 (1.8)	5 (4.3)
##	nihss_0 (median [IQR])		3.0 [2.0, 5.0]	4.0 [2.0, 8.0]
##	nihss_0_isna (%)	FALSE	498 (98.0)	115 (98.3)
##		TRUE	10 (2.0)	2 (1.7)
##	thrombolysis (%)	no	323 (63.6)	73 (62.4)
##		yes	185 (36.4)	44 (37.6)
##	thrombechtomy (%)	no	472 (92.9)	109 (93.2)
##		yes	36 (7.1)	8 (6.8)
##	rep_any (%)	no	316 (62.2)	72 (61.5)
##		rep	192 (37.8)	45 (38.5)
##	inc_time (median [IQR])		181.0 [175.0, 186.0]	24.0 [11.0, 130.0]
##		Stratified by in_ex		
##		p test Missing		
##	n			
##	rtreat (%)	0.453	0.0	
##				
##	age (median [IQR])	0.015	nonnorm	0.0
##	sex (%)	0.872	0.0	
##				
##	bmi (mean (SD))	0.198	27.0	
##	bmi_isna (%)	0.842	0.0	
##				
##	smoke_ever (%)	0.038	2.7	

```

##
##
##   civil (%)           0.469       0.0
##
##
##   diabetes (%)       0.138       1.1
##
##
##   hypertension (%)   0.133       0.8
##
##
##   afli (%)           0.197       0.0
##
##
##   ami (%)            0.462       1.4
##
##
##   tci (%)            0.527       1.4
##
##
##   pad (%)            0.245       2.2
##
##
##   nihss_0 (median [IQR]) 0.052 nonnorm 1.9
##   nihss_0_isna (%)       1.000       0.0
##
##   thrombolysis (%)      0.893       0.0
##
##   thrombechtomy (%)     1.000       0.0
##
##   rep_any (%)           0.977       0.0
##
##   inc_time (median [IQR]) <0.001 nonnorm 0.0

```

```
table(is.na(dta$nihss_0),dta$strat_table_one)
```

```

##
##           xLower yHigher zExcluded
## FALSE      236     262      115
## TRUE         4         6         2

```

```
table(is.na(dta$bmi),dta$strat_table_one)
```

```

##
##           xLower yHigher zExcluded
## FALSE      181     191      84
## TRUE         59         77      33

```

```

dta<-dta[dta$strat_table_one!="zExcluded",]
dta$strat_table_one<-factor(dta$strat_table_one)
tab5 <- CreateTableOne(vars = tbl_norm, strata="strat_table_one",
                        data = dta, factorVars = tbl_cat,includeNA = T)

```

```
tbl1_5<-print(tab5, contDigits = 1, missing=T,showAllLevels=T,
              nonnormal = tbl_non, smd = F,test = T, quote = F, noSpaces = TRUE)
```

```
##                               Stratified by strat_table_one
##                               level  xLower                yHigher
##  n                               240                268
##  rtreat (%)                       Active 112 (46.7)        135 (50.4)
##                               Placebo 128 (53.3)        133 (49.6)
##  age (median [IQR])                73.0 [66.0, 79.0]  63.0 [54.8, 71.0]
##  sex (%)                            female 102 (42.5)        74 (27.6)
##                               male   138 (57.5)        194 (72.4)
##  bmi (mean (SD))                    26.9 (4.9)        27.5 (5.1)
##  bmi_isna (%)                       FALSE 181 (75.4)        191 (71.3)
##                               TRUE  59 (24.6)        77 (28.7)
##  smoke_ever (%)                     ever  66 (27.5)        104 (38.8)
##                               never 168 (70.0)        157 (58.6)
##                               <NA>  6 (2.5)           7 (2.6)
##  civil (%)                           alone 95 (39.6)        69 (25.7)
##                               partner 143 (59.6)        195 (72.8)
##                               unknown 2 (0.8)           4 (1.5)
##  diabetes (%)                       no   210 (87.5)        241 (89.9)
##                               yes   28 (11.7)        24 (9.0)
##                               <NA>  2 (0.8)           3 (1.1)
##  hypertension (%)                   no   94 (39.2)        154 (57.5)
##                               yes   146 (60.8)        111 (41.4)
##                               <NA>  0 (0.0)           3 (1.1)
##  afli (%)                            no   193 (80.4)        233 (86.9)
##                               unknown 2 (0.8)           3 (1.1)
##                               yes   45 (18.8)        32 (11.9)
##  ami (%)                             no   216 (90.0)        245 (91.4)
##                               yes   23 (9.6)         18 (6.7)
##                               <NA>  1 (0.4)           5 (1.9)
##  tci (%)                             no   231 (96.2)        258 (96.3)
##                               yes   7 (2.9)           6 (2.2)
##                               <NA>  2 (0.8)           4 (1.5)
##  pad (%)                             no   222 (92.5)        256 (95.5)
##                               yes   14 (5.8)         7 (2.6)
##                               <NA>  4 (1.7)           5 (1.9)
##  nihss_0 (median [IQR])              3.0 [2.0, 6.0]    3.0 [2.0, 5.0]
##  nihss_0_isna (%)                   FALSE 236 (98.3)        262 (97.8)
##                               TRUE  4 (1.7)           6 (2.2)
##  thrombolysis (%)                   no   157 (65.4)        166 (61.9)
##                               yes   83 (34.6)        102 (38.1)
##  thrombechtomy (%)                  no   219 (91.2)        253 (94.4)
##                               yes   21 (8.8)         15 (5.6)
##  rep_any (%)                         no   153 (63.7)        163 (60.8)
##                               rep   87 (36.2)        105 (39.2)
##  inc_time (median [IQR])             181.0 [175.0, 185.0] 181.0 [175.0, 187.0]
##                               Stratified by strat_table_one
##                               p      test      Missing
##  n
##  rtreat (%)                          0.456          0.0
##
```

```

## age (median [IQR]) <0.001 nonnorm 0.0
## sex (%) 0.001 0.0
##
## bmi (mean (SD)) 0.217 26.8
## bmi_isna (%) 0.340 0.0
##
## smoke_ever (%) 0.024 2.6
##
##
## civil (%) 0.004 0.0
##
##
## diabetes (%) 0.577 1.0
##
##
## hypertension (%) <0.001 0.6
##
##
## afli (%) 0.099 0.0
##
##
## ami (%) 0.168 1.2
##
##
## tci (%) 0.707 1.2
##
##
## pad (%) 0.189 1.8
##
##
## nihss_0 (median [IQR]) 0.256 nonnorm 2.0
## nihss_0_isna (%) 0.886 0.0
##
## thrombolysis (%) 0.471 0.0
##
## thrombechtomy (%) 0.226 0.0
##
## rep_any (%) 0.556 0.0
##
## inc_time (median [IQR]) 0.516 nonnorm 0.0

```

```

tbl_list<-list(tbl1_1,tbl1_2,tbl1_3,tbl1_4,tbl1_5)
for (i in 1:length(tbl_list)){
  nm<-paste0("tbl1_",i)
  write.csv(tbl_list[[i]],
            paste0("/Volumes/Data/depression/",nm,"_enr_",
                  lubridate::today(),".csv"))
}

```