CH2

2023-06-06

5. Factor 다루기

5.1 Factor로 변환하기

데이터에서 자료의 형태는 연속형도 있지만, 범주형 변수도 있음 R에서는 범주형을 factor형태로 다루게 됨

```
library(tidyverse)
dat1<-dat
class(dat1$gender)
## [1] "character"
table(dat1$gender)
##
## F M
## 6 18
dat1$sex1<-as.factor(dat1$gender)</pre>
class(dat1$sex1)
## [1] "factor"
table(dat1$sex1)
##
## F M
## 6 18
```

```
dat1$sex2<-as_factor(dat1$gender)
class(dat1$sex2)</pre>
```

[1] "factor"

table(dat1\$sex2)

as.factor,factor와 as_factor의 차이는 F,M의 순서 여기서 level의 개념이 적용됨

5.2 Factor level 이해하기

factor에서 level이란 범주형 변수값의 순서

5.3 forcat 패키지

```
dat1$region<-factor(dat1$region)</pre>
table(dat1$region)
##
##
            daegu daejun gwangju incheon jeju sejong
     busan
                                                             seoul
##
        4
dat1$region1<-fct_infreq(dat1$region)</pre>
levels(dat1$region1)
## [1] "seoul"
                                     "daejun" "gwangju" "incheon" "jeju"
                 "busan"
                           "daegu"
## [8] "sejong"
dat1$region2 <-fct_recode(dat1$region,</pre>
                          'north' = 'seoul',
                          'north' = 'incheon',
                          'south' = 'gwangju',
                          'south' = 'jeju',
                          'south' = 'sejong',
                          'south' = 'daejun',
                          'east' = 'daegu',
                          'east' = 'busan')
dat1$region3 <- fct_collapse(dat1$region,</pre>
                             'north' = c('seoul','incheon'),
                             'south' = c('gwangju','jeju','sejong','daejun'),
                             'east' = c('daegu','busan'))
dat1 %>%
  count(region, region2, region3)
##
      region region2 region3 n
## 1
     busan east east 4
             east east 4
## 2
     daegu
## 3 daejun south south 2
## 4 gwangju south south 2
## 5 incheon north north 2
       jeju south south 1
## 6
## 7 sejong south south 1
## 8 seoul north north 8
```

```
dat1$region4 <- fct_lump(dat1$region, n=4)
dat1 %>%
   count(region, region4)
```

6. 기술통계

Hmisc::describe(dat\$age)

```
## dat$age
##
        n missing distinct
                              Info
                                       Mean
                                                Gmd
                                                        .05
                                                                .10
                                      45.54
                                              9.576
##
        24
           0
                        15
                              0.987
                                                      29.15
                                                              30.60
##
       .25
               .50
                       .75
                              .90
                                        .95
##
     42.50
             49.00
                     50.25
                              51.70
                                      53.70
##
            26.00 28.88 29.96 31.76 32.84 40.76 42.92 44.72 47.96 48.68 49.76
## Value
## Frequency 1 1 1 1 1 1 2
                                                                3
## Proportion 0.042 0.042 0.042 0.042 0.042 0.042 0.042 0.042 0.042 0.083 0.125 0.208
##
            50.84 51.92 53.72 62.00
## Value
## Frequency
              3 1
                         1
## Proportion 0.125 0.042 0.042 0.042
## For the frequency table, variable is rounded to the nearest 0.36
```

7. 데이터 수정 및 결측치

```
dat[dat$dna=='undetectable',]
##
     id index_date gender age last_date treat_gr lc hcc hcc_date hcc_yr
## 19 19 2007/02/15 M 48 2017/08/25 TDF 0 0 2017/08/25 10.67778
       lab_date alt bil inr cr plt alb eag dna dna_log risk_gr region
## 19 2007/02/01 34 1.1 1.1 1 NA 4.3 0 undetectable
                                                               low sejong
dat[19, 'dna'] <- '0'
dat$dna
## [1] "31934937"
                   "1100"
                                "35968299"
                                             "9145608"
                                                         "1095481"
## [6] "900"
                    "29000000"
                                "140000000" "2000000"
                                                         "58425664"
## [11] "12340762"
                    "47000"
                                "220"
                                             "14000000"
                                                         "497946000"
## [16] "720"
                                             "0"
                                                         "24000"
                    "82000000"
                                "440000"
## [21] "66393"
                    "337540995" "280000"
                                             "270000"
class(dat$dna)
## [1] "character"
dat$dna <- as.numeric(dat$dna)</pre>
class(dat$dna)
## [1] "numeric"
```

7.1 결측값 확인

```
mean(dat$alb)

## [1] NA

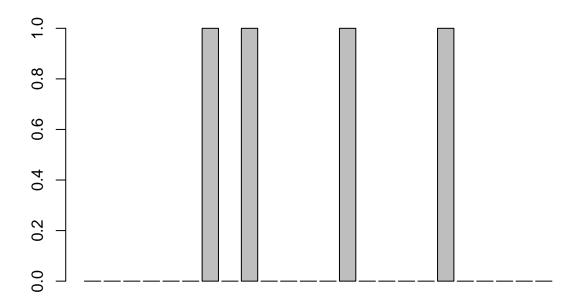
mean(dat$alb, na.rm=T)

## [1] 3.7

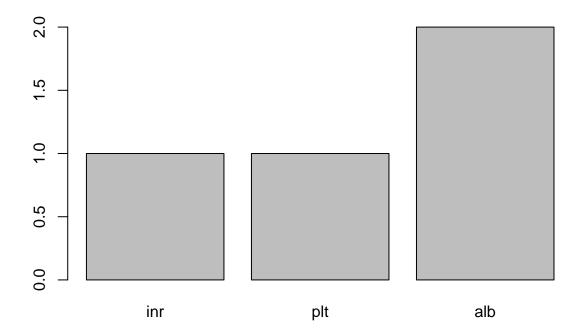
is.na(dat$alb)

## [1] FALSE FALSE FALSE FALSE FALSE TRUE FALSE F
```

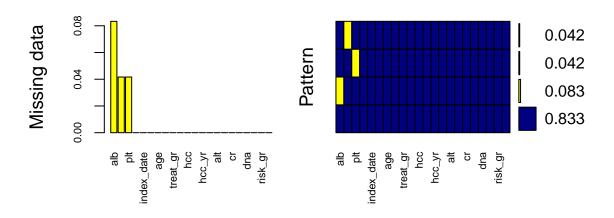
7.2 결측값 한 번에 확인



```
na.count <- apply(dat, 2, function(x) sum(is.na(x)))</pre>
na.count
##
            id index_date
                                                      last_date
                                                                                         lc
                                 gender
                                                  age
                                                                      treat_gr
                                                    0
##
              0
                                                                                          0
                  hcc_date
                                 hcc_yr
##
                                            lab_date
                                                              alt
                                                                           bil
                                                                                        inr
           hcc
##
             0
                                                                                          1
##
            \operatorname{cr}
                        plt
                                     alb
                                                  eag
                                                              {\tt dna}
                                                                       dna_log
                                                                                   risk_gr
##
              0
##
        region
##
```



7.3 패키지 이용



```
##
##
    Variables sorted by number of missings:
##
      Variable
                     Count
##
           alb 0.08333333
           inr 0.04166667
##
##
           plt 0.04166667
##
            id 0.00000000
##
    index_date 0.00000000
        gender 0.00000000
##
           age 0.00000000
##
##
     last_date 0.00000000
##
      treat_gr 0.00000000
##
            lc 0.00000000
##
           hcc 0.00000000
##
      hcc_date 0.00000000
##
        hcc_yr 0.00000000
##
      lab_date 0.00000000
           alt 0.00000000
##
##
           bil 0.00000000
            cr 0.00000000
##
##
           eag 0.00000000
##
           dna 0.00000000
       dna_log 0.00000000
##
##
       risk_gr 0.00000000
##
        region 0.00000000
```

missing

```
##
## Missings in variables:
## Variable Count
## inr 1
## plt 1
## alb 2
```

8. apply 함수

8.1 tapply

8.2 sapply

```
sapply(dat, class)
```

```
##
          id index_date
                            gender
                                               last_date
                                                           treat_gr
                                          age
##
    "integer" "character" "character"
                                    "integer" "character" "character"
##
          lc
                   hcc hcc_date
                                       hcc_yr
                                                lab_date
    "integer"
               "integer" "character" "numeric" "character"
##
                                                          "integer"
##
         bil
                   inr
                                          plt
                                               alb
    "numeric"
##
               "numeric"
                         "numeric"
                                    "integer"
                                               "numeric"
                                                          "integer"
##
                                       region
         dna
               dna_log
                          risk_gr
    "numeric" "character" "character"
```

8.3 lapply

```
lapply(dat[,c('age','gender')],class)
```

```
## $age
## [1] "integer"
##
## $gender
## [1] "character"
```

10. 중복 결과값 다루기

10.1 unique 함수 사용

```
dat$cr
## [1] 1.00 0.60 1.05 0.93 0.90 1.20 0.91 0.70 0.73 1.20 1.10 0.81 1.00 0.69 1.00
## [16] 0.92 0.81 0.60 1.00 0.63 0.80 0.99 0.91 0.89

length(dat$cr)
## [1] 24
unique(dat$cr)
## [1] 1.00 0.60 1.05 0.93 0.90 1.20 0.91 0.70 0.73 1.10 0.81 0.69 0.92 0.63 0.80
## [16] 0.99 0.89

length(unique(dat$cr))
## [1] 17
unique(dat$gender, dat$cr)
## [1] "M" "F"
```

unique(dat[,c('gender','cr')])

##		gender	cr
##	1	M	1.00
##	2	F	0.60
##	3	M	1.05
##	4	M	0.93
##	5	M	0.90
##	6	M	1.20
##	7	M	0.91
##	8	F	0.70
##	9	F	0.73
##	11	M	1.10
##	12	M	0.81
##	14	M	0.69
##	16	M	0.92
##	17	F	0.81
##	20	F	0.63
##	21	M	0.80
##	22	M	0.99
##	24	M	0.89

```
dat %>%
  distinct(gender, cr)
```

##		gender	cr
##	1	M	1.00
##	2	F	0.60
##	3	M	1.05
##	4	M	0.93
##	5	M	0.90
##	6	M	1.20
##	7	M	0.91
##	8	F	0.70
##	9	F	0.73
##	10	M	1.10
##	11	M	0.81
##	12	M	0.69
##	13	M	0.92
##	14	F	0.81
##	15	F	0.63
##	16	M	0.80
##	17	M	0.99
##	18	M	0.89

10.2 Duplicated함수 사용

```
dat$gender
## [20] "F" "M" "M" "M" "M"
duplicated(dat$gender)
TRUE
temp<-rbind(dat, dat[c(3,6,10),])
duplicated(temp$id)
## [1] FALSE FALSE
## [13] FALSE FALSE
## [25] TRUE TRUE TRUE
!duplicated(temp$id)
## [25] FALSE FALSE FALSE
temp1<-temp[!duplicated(temp$id),]</pre>
unique(temp1$id)
 [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
```

11. Table 1 만들기

11.1 moonBook 패키지

```
library(moonBook)
mytable(treat_gr~age+gender+lc+alt+bil+
          inr+cr+plt+alb+eag+dna_log,
          data=dat)
```

```
##
##
    Descriptive Statistics by 'treat_gr'
  _____
##
              ETV
                           TDF
                                       р
                     (N=9)
##
             (N=15)
##
##
   age
           43.7 \pm 9.2 \quad 48.6 \pm 8.5 \quad 0.214
                                     1.000
##
   gender
           4 (26.7%) 2 (22.2%)
##
     - F
##
          11 (73.3%)
                       7 (77.8%)
     - M
##
   lc
                                     1.000
                      4 (44.4%)
5 (55.6%)
     - 0
          6 (40.0%)
##
           9 (60.0%)
##
     - 1
           94.2 \pm 93.1 \quad 123.0 \pm 141.1 \quad 0.552
##
   alt
           1.3 \pm 0.4
                         1.2 \pm 0.4 0.686
##
   bil
           1.1 \pm 0.2
                         1.1 \pm 0.0 0.416
##
   inr
           0.9 \pm 0.2
                         0.9 \pm 0.1 0.769
##
  cr
##
  plt
         158.4 \pm 56.9 \ 146.5 \pm 36.0 \ 0.599
           3.6 \pm 0.6
                         3.9 \pm 0.5 0.252
##
   alb
##
   eag
                                     0.913
##
     - 0
          5 (33.3%) 4 (44.4%)
##
     - 1
          10 (66.7%) 5 (55.6%)
   dna_log 5.8 \pm 2.2 6.0 \pm 2.4 0.811
##
```

## ## ##		Descriptive Statist	ics by 'treat_gr'	
##		ETV	TDF	р
##		(N=15)	(N=9)	_
## ##	age	49.0 [37.0;50.5]	49 0 [48 0·50 0]	0.548
##	gender	13.0 [01.0,00.0]	10.0 [10.0,00.0]	1.000
##	- F	4 (26.7%)	2 (22.2%)	
##	- M	11 (73.3%)	7 (77.8%)	
##	lc			1.000
##	- 0	6 (40.0%)	4 (44.4%)	
##	- 1	9 (60.0%)	5 (55.6%)	
##	alt	61.0 [33.0;95.5]	94.0 [48.0;106.0]	0.387
##	bil	1.3 [1.0; 1.4]	1.1 [1.0; 1.5]	0.589
##	inr	1.1 [1.0; 1.2]	1.1 [1.0; 1.1]	0.899
##	cr	0.9 [0.7; 1.0]	0.9 [0.8; 0.9]	0.654
##	plt	164.0 [137.5;183.5]	156.0 [119.0;163.5]	0.366
##	alb	3.8 [3.2; 4.1]	4.0 [3.7; 4.2]	0.181
##	eag			0.913
##	- 0	5 (33.3%)	4 (44.4%)	
##	- 1	10 (66.7%)	5 (55.6%)	
##	dna_log	6.3 [3.7; 7.3]	6.0 [4.8; 7.6]	0.726
##				

##					
##		Descriptive S	Statistics by	'treat_gr'	
## ##		 ETV	TDF	Total	
##		(N=15)	(N=9)	(N=24)	Р
##		(N-15)	(N-9)	(N-24)	
##	age	43.7 ± 9.2	48.6 ± 8.5	45.5 ± 9.1	0.214
##	gender				1.000
##	- F	4 (26.7%)	2 (22.2%)	6 (25.0%)	
##	- M	11 (73.3%)	7 (77.8%)	18 (75.0%)	
##	lc				1.000
##	- 0	6 (40.0%)	4 (44.4%)	10 (41.7%)	
##	- 1	9 (60.0%)	5 (55.6%)	14 (58.3%)	
##	alt	94.2 ± 93.1	123.0 ± 141.1	105.0 ± 111.4	0.552
##	bil	1.3 ± 0.4	1.2 ± 0.4	1.3 ± 0.4	0.686
##	inr	1.1 ± 0.2	1.1 ± 0.0	1.1 ± 0.2	0.416
##	cr	0.9 ± 0.2	0.9 ± 0.1	0.9 ± 0.2	0.769
##	plt	158.4 ± 56.9	146.5 ± 36.0	154.3 ± 50.0	0.599
##	alb	3.6 ± 0.6	3.9 ± 0.5	3.7 ± 0.6	0.252
##	eag				0.913
##	- 0	5 (33.3%)	4 (44.4%)	9 (37.5%)	
##	- 1	10 (66.7%)	5 (55.6%)	15 (62.5%)	
##	dna_log	5.8 ± 2.2	6.0 ± 2.4	5.9 ± 2.2	0.811
##					

```
##
##
         Descriptive Statistics
## -----
      Mean ± SD or % N Missing (%)
## -----
   age
##
             45.5 \pm 9.1 24 0 (0.0%)
    gender
                        24 0 (0.0%)
##
    - F 6 (25.0%)
- M 18 (75.0%)
##
    - F
##
##
    lc
                        24 0 (0.0%)
    - 0 10 (41.7%)
- 1 14 (58.3%)
##
##
    alt 105.0 \pm 111.4 24 0 (0.0\%)
##
            1.3 \pm 0.4 24 0 (0.0\%)
##
    bil
              1.1 \pm 0.2 23 1 ( 4.2%)
##
    inr
            0.9 ± 0.2 24 0 (0.0%)
  cr 0.9 \pm 0.2 24 0 (0.0%) plt 154.3 \pm 50.0 23 1 (4.2%)
##
##
           3.7 \pm 0.6 22 2 (8.3%)
##
    alb
                        24 0 (0.0%)
    eag
##
   - 0 9 (37.5%)
- 1 15 (62.5%)
##
##
   dna_log 5.9 \pm 2.2 24 0 (0.0\%)
##
```

11.2 tableone 패키지

```
Stratified by treat_gr
##
##
                          ETV
                                         TDF
                                                                  test
##
                              15
                                               9
                                          48.56 (8.52)
##
                           43.73 (9.16)
                                                           0.214
     age (mean (SD))
     gender = M (%)
##
                              11 (73.3)
                                               7 (77.8)
                                                           1.000
     1c = 1 (\%)
                               9 (60.0)
                                                           1.000
##
                                               5 (55.6)
##
     alt (mean (SD))
                           94.20 (93.09) 123.00 (141.11)
                                                           0.552
##
     bil (mean (SD))
                            1.29 (0.41)
                                            1.22 (0.42)
                                                           0.686
##
     inr (mean (SD))
                            1.11 (0.19)
                                            1.07 (0.04)
                                                           0.504
     cr (mean (SD))
                            0.90 (0.20)
                                                           0.769
##
                                            0.88 (0.11)
##
     plt (mean (SD))
                          158.40 (56.88) 146.50 (36.00)
                                                           0.599
##
     alb (mean (SD))
                                                           0.252
                            3.59 (0.64)
                                            3.90 (0.52)
##
     eag (mean (SD))
                            0.67 (0.49)
                                            0.56 (0.53)
                                                           0.605
     dna_log (mean (SD))
##
                            5.78 (2.18)
                                            6.01 (2.41)
                                                           0.811
```

summary(table1)

```
##
##
       ### Summary of continuous variables ###
##
## treat_gr: ETV
                             sd median
                                        p25 p75 min max skew kurt
##
          n miss p.miss mean
## age
               0
                     0 43.7 9.2
                                  49.0 37.0 50 26.0 54 -0.8 -0.8
                     0 94.2 93.1
                                  61.0 33.0 96 31.0 359 2.1 4.2
## alt
                                                      2 0.9 0.5
## bil
         15
                        1.3 0.4
                                   1.3
                                        1.0
                                             1 0.7
               0
                     0
## inr
         15
                        1.1 0.2
                                   1.1
                                         1.0
                                                      2 1.2 1.3
              1
                     7
                                             1 0.9
         15
                     0 0.9 0.2
                                   0.9
## cr
              0
                                         0.7
                                              1 0.6
                                                      1 -0.2 -1.1
## plt
        15
               0
                     0 158.4 56.9 164.0 137.5 184 55.0 292 0.2 1.7
## alb
         15
                        3.6 0.6
                                   3.8
                                         3.2
                                              4 2.1
               1
                     7
                                                      4 - 1.1 0.7
## eag
         15
               0
                     0
                        0.7 0.5
                                   1.0 0.0
                                              1 0.0
                                                      1 -0.8 -1.6
                                   6.3 3.7
## dna log 15
               0
                     0 5.8 2.2
                                              7 2.3
                                                      9 - 0.4 - 1.3
## -----
## treat_gr: TDF
       n miss p.miss mean sd median
                                        p25
                                             p75 min max skew kurt
## age
              0 0 48.6 9e+00
                                  49.0 48.0 50.0 29.0 62 -1.30 4.55
                    0 123.0 1e+02
                                  94.0 48.0 106.0 34.0 486 2.61 7.27
## alt
         9
              0
## bil
         9
             0
                    0 1.2 4e-01
                                  1.1
                                        1.0
                                             1.5 0.7 2 0.63 -0.83
            0
                      1.1 4e-02
## inr
         9
                    0
                                   1.1
                                         1.0
                                              1.1 1.0
                                                      1 -0.21 -2.37
## cr
            0
                    0
                      0.9 1e-01
                                   0.9
                                         0.8
                                              0.9 0.7
                                                      1 0.08 -0.33
                   11 146.5 4e+01 156.0 126.0 162.8 91.0 204 -0.17 -0.08
## plt
         9
              1
         9
            1
                        3.9 5e-01
                                 4.0
                                         3.8
                                              4.2 2.8
## alb
                   11
                                                       4 -1.55 2.34
        9
                                             1.0 0.0
## eag
            0
                   0
                      0.6 5e-01
                                 1.0
                                         0.0
                                                      1 -0.27 -2.57
## dna log 9
                   0 6.0 2e+00 6.0 4.8 7.6 1.0 9 -0.97 1.39
##
## p-values
##
          pNormal pNonNormal
## age
         0.2137236 0.5286397
         0.5515067 0.3707812
## alt
## bil
         0.6858601 0.5682000
## inr
         0.5038224 0.8743690
## cr
         0.7693120 0.6323041
## plt
         0.5987924 0.3491690
         0.2516633 0.1701735
## alb
## eag
         0.6052414 0.5941235
## dna_log 0.8113600 0.6983231
## Standardize mean differences
           1 vs 2
## age
         0.5452206
## alt
         0.2409274
## bil
         0.1719907
## inr
         0.3203851
         0.1344336
## cr
## plt
         0.2500112
## alb
         0.5383001
         0.2187767
## eag
## dna log 0.1004008
##
```

```
##
##
     ### Summary of categorical variables ###
##
## treat_gr: ETV
    var n miss p.miss level freq percent cum.percent
## gender 15 0 0.0 F 4 26.7 26.7
##
                      M 11 73.3 100.0
##
##
     lc 15 0 0.0 0 6 40.0
                                     40.0
##
                     1 9 60.0
                                     100.0
## -----
## treat_gr: TDF
    var n miss p.miss level freq percent cum.percent
## gender 9 0 0.0 F 2 22.2 22.2 ## 777.8 100.0
##
##
     lc 9 0 0.0 0 4 44.4
                                     44.4
                     1 5 55.6
##
                                    100.0
##
##
## p-values
## pApprox pExact
## gender 1 1
## lc 1 1
##
## Standardize mean differences
    1 vs 2
## gender 0.10355607
## lc 0.09007547
```

write.csv(print(table1), file='C:\\Users\\ph102\\Desktop\\P\\bio\\ch2\\tableone.csv')

##	}	Stratifi	led by to	reat_gr			
##		ETV		TDF		p	test
##	n	15		9			
##	age (mean (SD))	43.73	(9.16)	48.56	(8.52)	0.214	
##	gender = M (%)	11	(73.3)	7	(77.8)	1.000	
##	lc = 1 (%)	9	(60.0)	5	(55.6)	1.000	
##	alt (mean (SD))	94.20	(93.09)	123.00	(141.11)	0.552	
##	bil (mean (SD))	1.29	(0.41)	1.22	(0.42)	0.686	
##	inr (mean (SD))	1.11	(0.19)	1.07	(0.04)	0.504	
##	cr (mean (SD))	0.90	(0.20)	0.88	(0.11)	0.769	
##	<pre>plt (mean (SD))</pre>	158.40	(56.88)	146.50	(36.00)	0.599	
##	alb (mean (SD))	3.59	(0.64)	3.90	(0.52)	0.252	
##	eag (mean (SD))	0.67	(0.49)	0.56	(0.53)	0.605	
##	<pre>dna_log (mean (SD))</pre>	5.78	(2.18)	6.01	(2.41)	0.811	

11.3 gtsummary 패키지

```
library(gtsummary)

dat.temp<-dat %>%
  select(treat_gr,gender, age, lc, bil, inr, cr, dna_log)
```

기본 테이블

tbl_summary(dat.temp)

Characteristic	N = 24
treat_gr	
ETV	15 (63%)
TDF	9 (38%)
gender	
F	6 (25%)
M	18 (75%)
age	49 (43, 50)
lc	14 (58%)
bil	1.15 (1.00, 1.43)
inr	1.08 (1.03, 1.12)
Unknown	1
cr	0.91 (0.78, 1.00)
dna_log	6.17 (4.60, 7.52)

두 그룹으로 나누기

tbl_summary(dat.temp, by=treat_gr)

ETV , N = 15	TDF , N = 9
4 (27%)	2 (22%)
11 (73%)	7 (78%)
49 (37, 51)	49 (48, 50)
9 (60%)	5 (56%)
1.30 (1.05, 1.35)	1.10 (1.00, 1.50)
1.08 (0.99, 1.17)	1.10 (1.03, 1.10)
1	0
0.93 (0.71, 1.00)	0.90 (0.81, 0.91)
6.30 (3.71, 7.33)	6.04 (4.82, 7.56)
	4 (27%) 11 (73%) 49 (37, 51) 9 (60%) 1.30 (1.05, 1.35) 1.08 (0.99, 1.17) 1

결측값 숨기기

tbl_summary(dat.temp, by=treat_gr, missing='no')

Characteristic	ETV , N = 15	TDF , N = 9
gender		
F	4 (27%)	2 (22%)
M	11 (73%)	7 (78%)
age	49 (37, 51)	49 (48, 50)
lc	9 (60%)	5 (56%)
bil	1.30 (1.05, 1.35)	1.10 (1.00, 1.50)
inr	1.08 (0.99, 1.17)	1.10 (1.03, 1.10)
cr	0.93 (0.71, 1.00)	0.90 (0.81, 0.91)
dna_log	6.30 (3.71, 7.33)	6.04 (4.82, 7.56)

결측값 다른 문구로 표시

tbl_summary(dat.temp, by='treat_gr', missing_text='missing value')

ETV , N = 15	TDF , N = 9
4 (27%)	2 (22%)
11 (73%)	7 (78%)
49 (37, 51)	49 (48, 50)
9 (60%)	5 (56%)
1.30 (1.05, 1.35)	1.10 (1.00, 1.50)
1.08 (0.99, 1.17)	1.10 (1.03, 1.10)
1	0
0.93 (0.71, 1.00)	0.90 (0.81, 0.91)
6.30 (3.71, 7.33)	6.04 (4.82, 7.56)
	4 (27%) 11 (73%) 49 (37, 51) 9 (60%) 1.30 (1.05, 1.35) 1.08 (0.99, 1.17) 1

평균과 표준편차로 나타내기

Characteristic	ETV , N = 15	TDF , N = 9
gender		
F	4 (27%)	2 (22%)
M	11 (73%)	7 (78%)
age	44 ± 9	49 ± 9
lc	9 (60%)	5 (56%)
bil	1.29 ± 0.41	1.22 ± 0.42
inr	1.12 ± 0.19	1.07 ± 0.04
cr	0.90 ± 0.20	0.88 ± 0.11
dna_log	5.78 ± 2.18	6.01 ± 2.41

p값 표시

Characteristic	ETV , N = 15	TDF , N = 9	p-value
gender			>0.9
F	4 (27%)	2 (22%)	
M	11 (73%)	7 (78%)	
age	49 (37, 51)	49 (48, 50)	0.5
lc	9 (60%)	5 (56%)	>0.9
bil	1.30 (1.05, 1.35)	1.10 (1.00, 1.50)	0.6
inr	1.08 (0.99, 1.17)	1.10 (1.03, 1.10)	0.9
cr	0.93 (0.71, 1.00)	0.90 (0.81, 0.91)	0.7
dna_log	6.30 (3.71, 7.33)	6.04 (4.82, 7.56)	0.7

전체 N수 표시

Characteristic	N	ETV , N = 15	TDF , N = 9
gender	24		
F		4 (27%)	2 (22%)
Μ		11 (73%)	7 (78%)
age	24	49 (37, 51)	49 (48, 50)
lc	24	9 (60%)	5 (56%)
bil	24	1.30 (1.05, 1.35)	1.10 (1.00, 1.50)
inr	23	1.08 (0.99, 1.17)	1.10 (1.03, 1.10)
cr	24	0.93 (0.71, 1.00)	0.90 (0.81, 0.91)
dna_log	24	6.30 (3.71, 7.33)	6.04 (4.82, 7.56)

전체 환자 특성 같이 보여주기

Characteristic	Overall, $N = 24$	ETV , N = 15	TDF, $N = 9$
gender			
F	6 (25%)	4 (27%)	2 (22%)
M	18 (75%)	11 (73%)	7 (78%)
age	49 (43, 50)	49 (37, 51)	49 (48, 50)
lc	14 (58%)	9 (60%)	5 (56%)
bil	1.15 (1.00, 1.43)	1.30 (1.05, 1.35)	1.10 (1.00, 1.50)
inr	1.08 (1.03, 1.12)	1.08 (0.99, 1.17)	1.10 (1.03, 1.10)
cr	0.91 (0.78, 1.00)	0.93 (0.71, 1.00)	0.90 (0.81, 0.91)
dna_log	6.17 (4.60, 7.52)	6.30 (3.71, 7.33)	6.04 (4.82, 7.56)

테이블 제목 변경

Table 9: Baseline Characteristics

Characteristic	ETV , N = 15	TDF , N = 9
gender		
F	4 (27%)	2 (22%)
M	11 (73%)	7 (78%)
age	49 (37, 51)	49 (48, 50)
lc	9 (60%)	5 (56%)
bil	1.30 (1.05, 1.35)	1.10 (1.00, 1.50)
inr	1.08 (0.99, 1.17)	1.10 (1.03, 1.10)
cr	0.93 (0.71, 1.00)	0.90 (0.81, 0.91)
dna_log	6.30 (3.71, 7.33)	6.04 (4.82, 7.56)

테이블 소제목 변경

Characteristic	ETV , N = 15	TDF , N = 9	
gender			
F	4 (27%)	2 (22%)	
M	11 (73%)	7 (78%)	
age	49 (37, 51)	49 (48, 50)	
lc	9 (60%)	5 (56%)	
bil	1.30 (1.05, 1.35)	1.10 (1.00, 1.50)	
inr	1.08 (0.99, 1.17)	1.10 (1.03, 1.10)	
cr	0.93 (0.71, 1.00)	0.90 (0.81, 0.91)	
dna_log	6.30 (3.71, 7.33)	6.04 (4.82, 7.56)	

최종 출판용으로 정리된 테이블

Table 11: Baseline Characteristics

Characteristic	Overall, $N = 24$	ETV , N = 15	TDF , N = 9	p-value
gender				>0.9
F	6 (25%)	4 (27%)	2 (22%)	
M	18 (75%)	11 (73%)	7 (78%)	
age	49 (43, 50)	49 (37, 51)	49 (48, 50)	0.5
lc	14 (58%)	9 (60%)	5 (56%)	>0.9
bil	1.15 (1.00, 1.43)	1.30 (1.05, 1.35)	1.10 (1.00, 1.50)	0.6
inr	1.08 (1.03, 1.12)	1.08 (0.99, 1.17)	1.10 (1.03, 1.10)	0.9
cr	0.91 (0.78, 1.00)	0.93 (0.71, 1.00)	0.90 (0.81, 0.91)	0.7
dna_log	6.17 (4.60, 7.52)	6.30 (3.71, 7.33)	6.04 (4.82, 7.56)	0.7