ec_report

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# reference: https://cran.r-project.org/web/packages/qwraps2/vignettes/summary-statistics.html
library(dplyr)
library(qwraps2)
options(qwraps2_markup = "markdown")
```

```
dig = read.csv('dig.csv')
```

```
our_summary1 <-
    list("CHARACTERISTIC" =
       list("Age (yr) - mean ± SD" = ~ qwraps2::mean_sd(AGE, digits = getOption("qwraps2_frmt_digits", 
            "Ejection fraction - mean ± SD" = ~ qwraps2::mean_sd(EJF_PER, digits = getOption("qwraps2_f
            "Median duration of CHF - mo" = ~ median(CHFDUR, digits=1, na.rm = TRUE),
            "Female sex" = ~ perc_n(SEX == 2, digits=1, na_rm = TRUE),
            "Nonwhite race" = ~ perc_n(RACE == 2, digits=1, na_rm = TRUE),
            "Age>70 yr" = ~ perc_n(AGE > 70, digits=1, na_rm = TRUE)),
    "Method of assessing ejection fraction" =
       list("Radionuclide ventriculography" = ~ perc_n(EJFMETH == 1, digits=1, na_rm = TRUE),
            "Two-dimensional echocardiography" = ~ perc_n(EJFMETH == 3, digits=1, na_rm = TRUE),
            "Contrast angiography" = ~ perc_n(EJFMETH == 2, digits=1, na_rm = TRUE),
            "Cardiothoracic ratio>0.55" = ~ perc_n(CHESTX>0.55, digits=1, na_rm = TRUE)),
    "NYHA class" =
       list("I" = ~ perc_n(FUNCTCLS == 1, digits=1, na_rm = TRUE),
            "II" = ~ perc_n(FUNCTCLS == 2, digits=1, na_rm = TRUE),
            "III" = ~ perc_n(FUNCTCLS == 3, digits=1, na_rm = TRUE),
            "IV" = ~ perc_n(FUNCTCLS == 4, digits=1, na_rm = TRUE)),
    "No. of signs or symptoms of CHF" =
       list("0" = ~ perc_n(NSYM == 0, digits=1, na_rm = TRUE),
            "1" = ~ perc_n(NSYM == 1, digits=1, na_rm = TRUE),
            "2" = ~ perc_n(NSYM == 2, digits=1, na_rm = TRUE),
            "3" = ~ perc_n(NSYM == 3, digits=1, na_rm = TRUE),
            " 4" = ~ perc_n(NSYM >= 4, digits=1, na_rm = TRUE)),
      "Medical history" =
       list("Previous myocardial infarction" = ~ perc_n(PREVMI == 1, digits=1, na_rm = TRUE),
            "Current angina" = ~ perc_n(ANGINA == 1, digits=1, na_rm = TRUE),
            "Diabetes" = ~ perc_n(DIABETES == 1, digits=1, na_rm = TRUE),
            "Hypertension" = ~ perc_n(HYPERTEN == 1, digits=1, na_rm = TRUE),
            "Previous digoxin use" = ~ perc_n(DIGUSE == 1, digits=1, na_rm = TRUE)),
     "Primary cause of CHF" =
       list("Ischemic" = ~ perc_n(CHFETIOL == 1, digits=1, na_rm = TRUE),
            "Nonischemic" = ~ perc_n(CHFETIOL != 1, digits=1, na_rm = TRUE),
            "  Idiopathic" = ~ perc_n(CHFETIOL == 4, digits=1, na_rm = TRUE),
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            "  Hypertensive" = ~ perc_n(CHFETIOL == 2, digits=1, na_rm = TRUE),
            "  Other‡" = ~ perc_n(CHFETIOL == 3 | CHFETIOL == 5 | CHFETIOL == 6, digits=1, na_rm = TRUE)
     "Concomitant medications" =
       list("Diuretics" = ~ perc_n(DIURETK == 1 | DIURET == 1, digits=1, na_rm = TRUE),
            "ACE inhibitors" = ~ perc_n(ACEINHIB == 1, digits=1, na_rm = TRUE),
            "Nitrates" = ~ perc_n(NITRATES == 1, digits=1, na_rm = TRUE),
            "Other vasodilators" = ~ perc_n(VASOD == 1, digits=1, na_rm = TRUE)),
      "Daily dose of study medication prescribed" =
       list("0.125 mg" = ~ perc_n(DIGDOSE == 0.125, digits=1, na_rm = TRUE),
            "0.250 mg" = ~ perc_n(DIGDOSE == 0.250, digits=1, na_rm = TRUE),
            "0.375 mg" = ~ perc_n(DIGDOSE == 0.375, digits=1, na_rm = TRUE),
            "0.500 mg" = ~ perc_n(DIGDOSE == 0.500, digits=1, na_rm = TRUE))
   )
```

```
# whole <- summary_table(dig, our_summary1, by = c("TRTMT"))
dig$TRTMT = relevel(as.factor(dig$TRTMT), ref = '1')
levels(dig$TRTMT) <- list("DIGOXIN"="1", "PLACEBO"="0")
levels(dig$TRTMT)
```

```
## [1] "DIGOXIN" "PLACEBO"
```

```
whole <- summary_table(dplyr::group_by(dig, TRTMT), our_summary1)
whole
```

```
##
##
## |                                              |DIGOXIN (N = 3397)           |PLACEBO (N = 3403)
## |:---------------------------------------------|:----------------------------|:---------------------
## |**CHARACTERISTIC**                            |                   |  
## |   Age (yr) - mean ± SD             |63.4 &plusmn; 11.0           |63.5 &plusmn; 10.8
## |   Ejection fraction - mean ± SD    |28.6 &plusmn; 8.8            |28.4 &plusmn; 8.9
## |   Median duration of CHF - mo      |17                           |16
## |   Female sex                       |22.2% (n = 3,397)            |22.5% (n = 3,403)
## |   Nonwhite race                    |14.3% (n = 3,397)            |14.8% (n = 3,403)
## |   Age>70 yr                        |26.7% (n = 3,397)            |27.4% (n = 3,403)
## |**Method of assessing ejection fraction**     |                   |  
## |   Radionuclide ventriculography    |65.0% (n = 3,397)            |64.2% (n = 3,403)
## |   Two-dimensional echocardiography |29.5% (n = 3,397)            |30.0% (n = 3,403)
## |   Contrast angiography             |5.5% (n = 3,397)             |5.8% (n = 3,403)
## |   Cardiothoracic ratio>0.55        |34.6% (n = 3,396non-missing) |34.4% (n = 3,402non-mis
## |**NYHA class**                                |                   |  
## |   I                                |13.7% (n = 3,393non-missing) |13.0% (n = 3,401non-mis
## |   II                               |53.3% (n = 3,393non-missing) |54.5% (n = 3,401non-mis
## |   III                              |30.7% (n = 3,393non-missing) |30.5% (n = 3,401non-mis
## |   IV                               |2.2% (n = 3,393non-missing)  |1.9% (n = 3,401non-miss
## |**No. of signs or symptoms of CHF**           |                   |  
## |   0                                |1.1% (n = 3,397)             |1.1% (n = 3,403)
## |   1                                |2.4% (n = 3,397)             |2.0% (n = 3,403)
## |   2                                |7.1% (n = 3,397)             |7.1% (n = 3,403)
## |   3                                |9.3% (n = 3,397)             |8.6% (n = 3,403)
## |    4                               |80.2% (n = 3,397)            |81.2% (n = 3,403)
## |**Medical history**                           |                   |  
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## |   Previous myocardial infarction   |64.7% (n = 3,396non-missing) |65.3% (n = 3,403)
## |   Current angina                   |27.1% (n = 3,396non-missing) |26.4% (n = 3,402non-mis
## |   Diabetes                         |28.3% (n = 3,397)            |28.6% (n = 3,403)
## |   Hypertension                     |45.0% (n = 3,396non-missing) |45.8% (n = 3,403)
## |   Previous digoxin use             |44.1% (n = 3,397)            |44.6% (n = 3,403)
## |**Primary cause of CHF**                      |                   |  
## |   Ischemic                         |71.0% (n = 3,388non-missing) |70.7% (n = 3,394non-mis
## |   Nonischemic                      |29.0% (n = 3,388non-missing) |29.3% (n = 3,394non-mis
## |     Idiopathic                    |15.5% (n = 3,388non-missing) |14.2% (n = 3,394non-mis
## |     Hypertensive                  |8.0% (n = 3,388non-missing)  |9.2% (n = 3,394non-miss
## |     Other‡                        |5.5% (n = 3,388non-missing)  |6.0% (n = 3,394non-miss
## |**Concomitant medications**                  |                   |  
## |   Diuretics                        |81.2% (n = 3,396non-missing) |82.2% (n = 3,402non-mis
## |   ACE inhibitors                   |94.1% (n = 3,397)            |94.8% (n = 3,403)
## |   Nitrates                         |42.2% (n = 3,397)            |43.1% (n = 3,403)
## |   Other vasodilators               |0.9% (n = 3,391non-missing)  |1.5% (n = 3,399non-miss
## |**Daily dose of study medication prescribed** |                   |  
## |   0.125 mg                         |17.5% (n = 3,396non-missing) |17.4% (n = 3,403)
## |   0.250 mg                         |70.6% (n = 3,396non-missing) |70.1% (n = 3,403)
## |   0.375 mg                         |10.3% (n = 3,396non-missing) |11.3% (n = 3,403)
## |   0.500 mg                         |1.1% (n = 3,396non-missing)  |0.9% (n = 3,403)
```