FINAL FIT TABLES

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library(tidyverse)  
library(gtsummary)  
library(gt)   
library(finalfit)  
library(broom)  
library(survival)  
library(ggsurvfit)  
  
heart <- read\_csv("heart\_failure\_clinical\_records\_dataset.csv")

## Labelling and recoding variables  
heart <- heart %>%   
 mutate(  
 age = if\_else(age<65,"Less than 65","Above 65") %>%   
 fct\_relevel("Less than 65") %>%   
 ff\_label("Age(years)"),  
 ejection\_fraction= if\_else(ejection\_fraction<30,"HFrEF",if\_else(ejection\_fraction>45,"HFpEF","HFmrEF")) %>%   
 fct\_relevel("HFpEF") %>%   
 ff\_label("Ejection fraction"),  
 serum\_creatinine=if\_else(serum\_creatinine>1.5,"Elevated","Normal") %>%   
 fct\_relevel("Normal") %>%   
 ff\_label("Serum creatinine(mg/dL)"),  
 serum\_sodium = if\_else(serum\_sodium< 135,"Low",if\_else(serum\_sodium>145,"Elevated","Normal")) %>%   
 fct\_relevel("Normal") %>%   
 ff\_label("Serum Sodium(mEq/L)"),  
 Sex = if\_else(sex ==1,"Male","Female"),  
 time= ff\_label(time,"Time(days)"),  
 creatinine\_phosphokinase =if\_else(creatinine\_phosphokinase >170,"Elevated","Normal") %>%   
 fct\_relevel("Normal") %>%   
 ff\_label("Creatinine phosphokinase(mcg/dL)"),  
 platelets = if\_else(platelets <150000,"Low",if\_else(platelets>450000,"Elevated","Normal")) %>%   
 fct\_relevel("Normal") %>%   
 ff\_label("Platelets(/L)")  
   
 ) %>%   
 rename("Anaemia" = anaemia,  
 "Smoking" = smoking,  
 "Diabetes" = diabetes,  
 "Hypertension" =high\_blood\_pressure,  
 "death" = DEATH\_EVENT)

heart %>%   
 select(age,Sex,Anaemia,Diabetes,Hypertension,Smoking,  
 platelets,serum\_creatinine,creatinine\_phosphokinase,serum\_sodium,time,ejection\_fraction) %>%   
   
 tbl\_summary(  
 by =ejection\_fraction,  
   
 statistic =   
 list(all\_categorical() ~ "{n} ({p}%)",  
 all\_continuous() ~ "{mean} ({sd})"),  
   
 digits = list(all\_categorical() ~ 0,  
 all\_continuous() ~ 0),  
   
 ) %>%   
 add\_overall() %>%   
 bold\_labels() %>%   
 italicize\_levels() %>%   
 modify\_spanning\_header(  
 update = all\_stat\_cols() ~ "\*\*Classification of Heart Failure According to Ejection Fraction\*\*"  
 ) %>%   
 modify\_footnote(   
 update = all\_stat\_cols() ~   
 "\*mean(standard deviation) for continuous; n(%) for categorical;  
 HFrEF-Heart failure with reduced ejection fraction;  
 HFpEF-Heart failure with preserved ejection fraction;  
 HFmrEF-Heart failure with moderately reduced ejection fraction\*"  
   
 )

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| Table 1: Study Participant Characteristics   | **Characteristic** | **Overall**, N = 299 | **HFpEF**, N = 60 | **HFmrEF**, N = 180 | **HFrEF**, N = 59 | | --- | --- | --- | --- | --- | | **Age(years)** |  |  |  |  | | *Less than 65* | 184 (62%) | 32 (53%) | 117 (65%) | 35 (59%) | | *Above 65* | 115 (38%) | 28 (47%) | 63 (35%) | 24 (41%) | | **Sex** |  |  |  |  | | *Female* | 105 (35%) | 28 (47%) | 63 (35%) | 14 (24%) | | *Male* | 194 (65%) | 32 (53%) | 117 (65%) | 45 (76%) | | **Anaemia** | 129 (43%) | 30 (50%) | 71 (39%) | 28 (47%) | | **Diabetes** | 125 (42%) | 24 (40%) | 80 (44%) | 21 (36%) | | **Hypertension** | 105 (35%) | 24 (40%) | 59 (33%) | 22 (37%) | | **Smoking** | 96 (32%) | 15 (25%) | 62 (34%) | 19 (32%) | | **Platelets(/L)** |  |  |  |  | | *Normal* | 259 (87%) | 50 (83%) | 159 (88%) | 50 (85%) | | *Elevated* | 13 (4%) | 5 (8%) | 6 (3%) | 2 (3%) | | *Low* | 27 (9%) | 5 (8%) | 15 (8%) | 7 (12%) | | **Serum creatinine(mg/dL)** |  |  |  |  | | *Normal* | 232 (78%) | 54 (90%) | 141 (78%) | 37 (63%) | | *Elevated* | 67 (22%) | 6 (10%) | 39 (22%) | 22 (37%) | | **Creatinine phosphokinase(mcg/dL)** |  |  |  |  | | *Normal* | 118 (39%) | 30 (50%) | 64 (36%) | 24 (41%) | | *Elevated* | 181 (61%) | 30 (50%) | 116 (64%) | 35 (59%) | | **Serum Sodium(mEq/L)** |  |  |  |  | | *Normal* | 214 (72%) | 46 (77%) | 131 (73%) | 37 (63%) | | *Elevated* | 2 (1%) | 2 (3%) | 0 (0%) | 0 (0%) | | *Low* | 83 (28%) | 12 (20%) | 49 (27%) | 22 (37%) | | **Time(days)** | 130 (78) | 118 (71) | 142 (79) | 106 (72) | |