Plesacov

Oleg Arnaut

2023-10-31

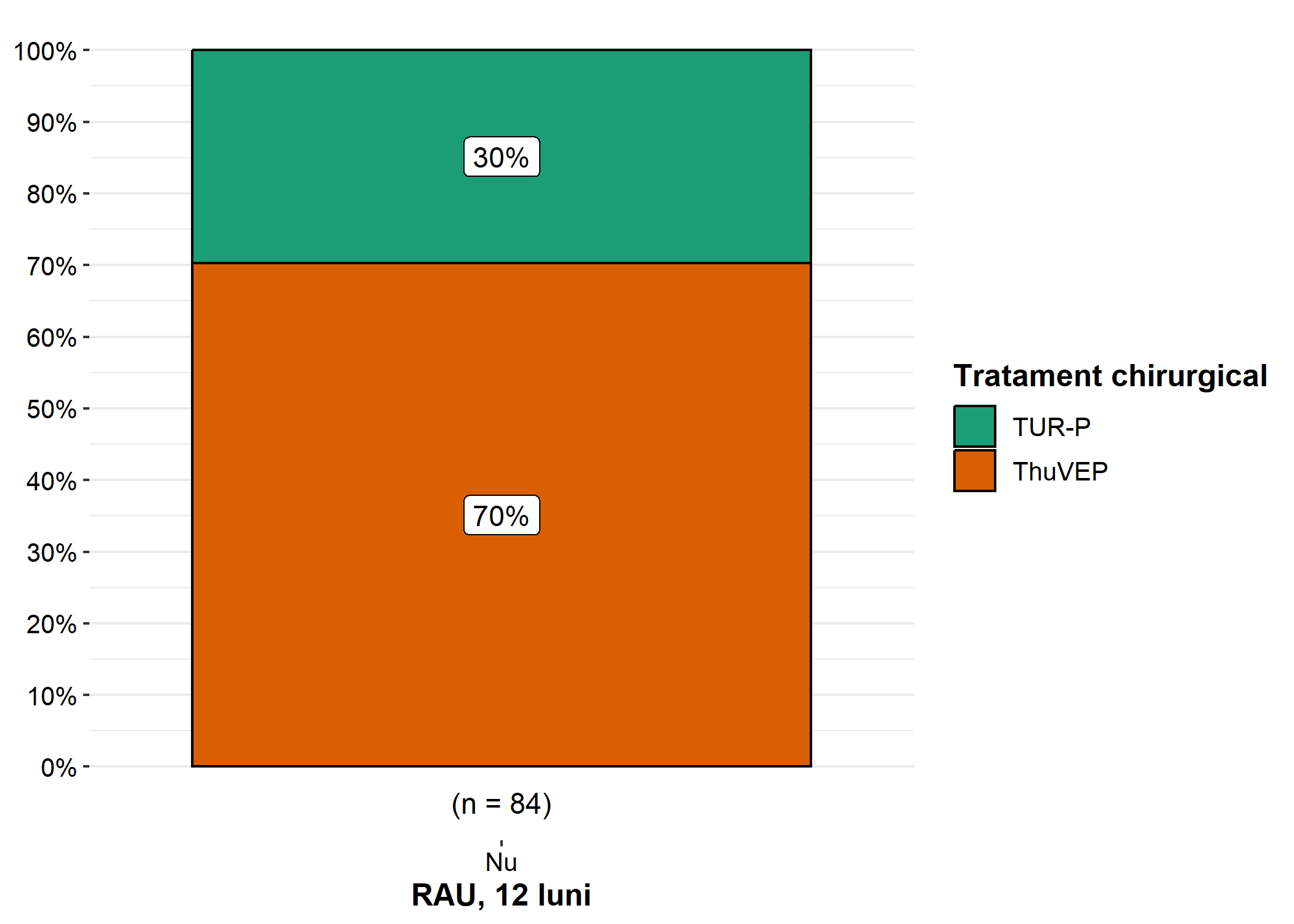
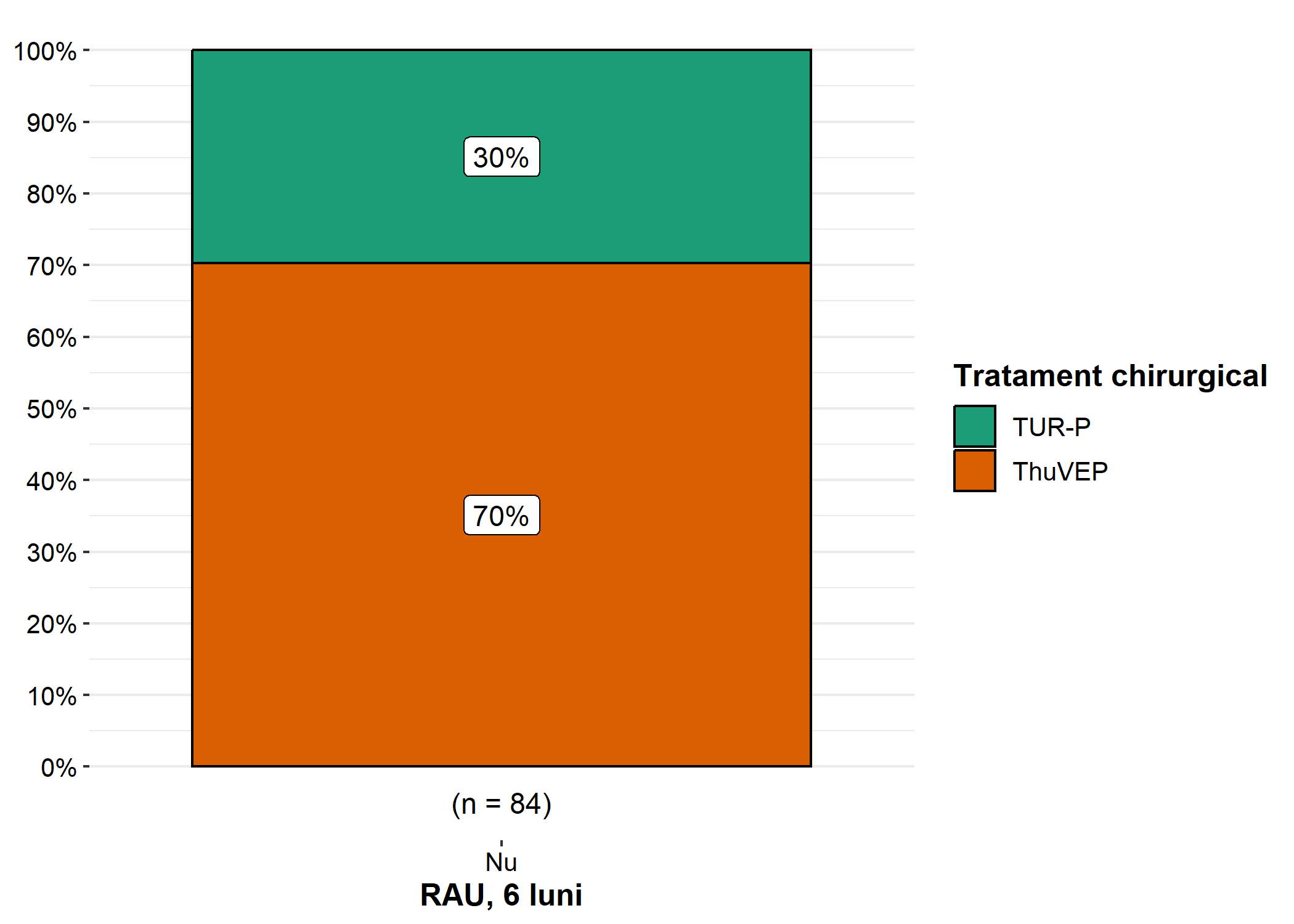
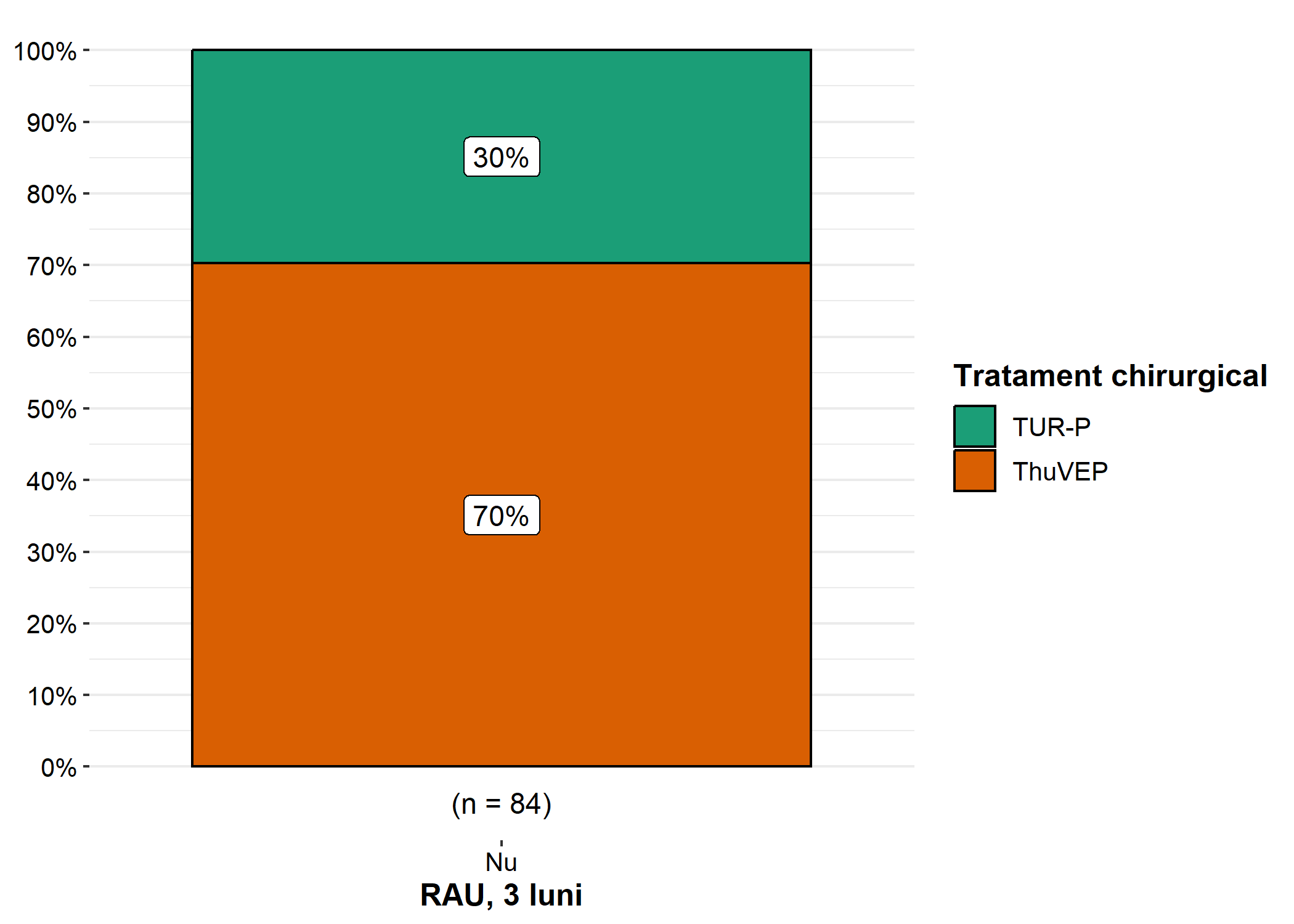
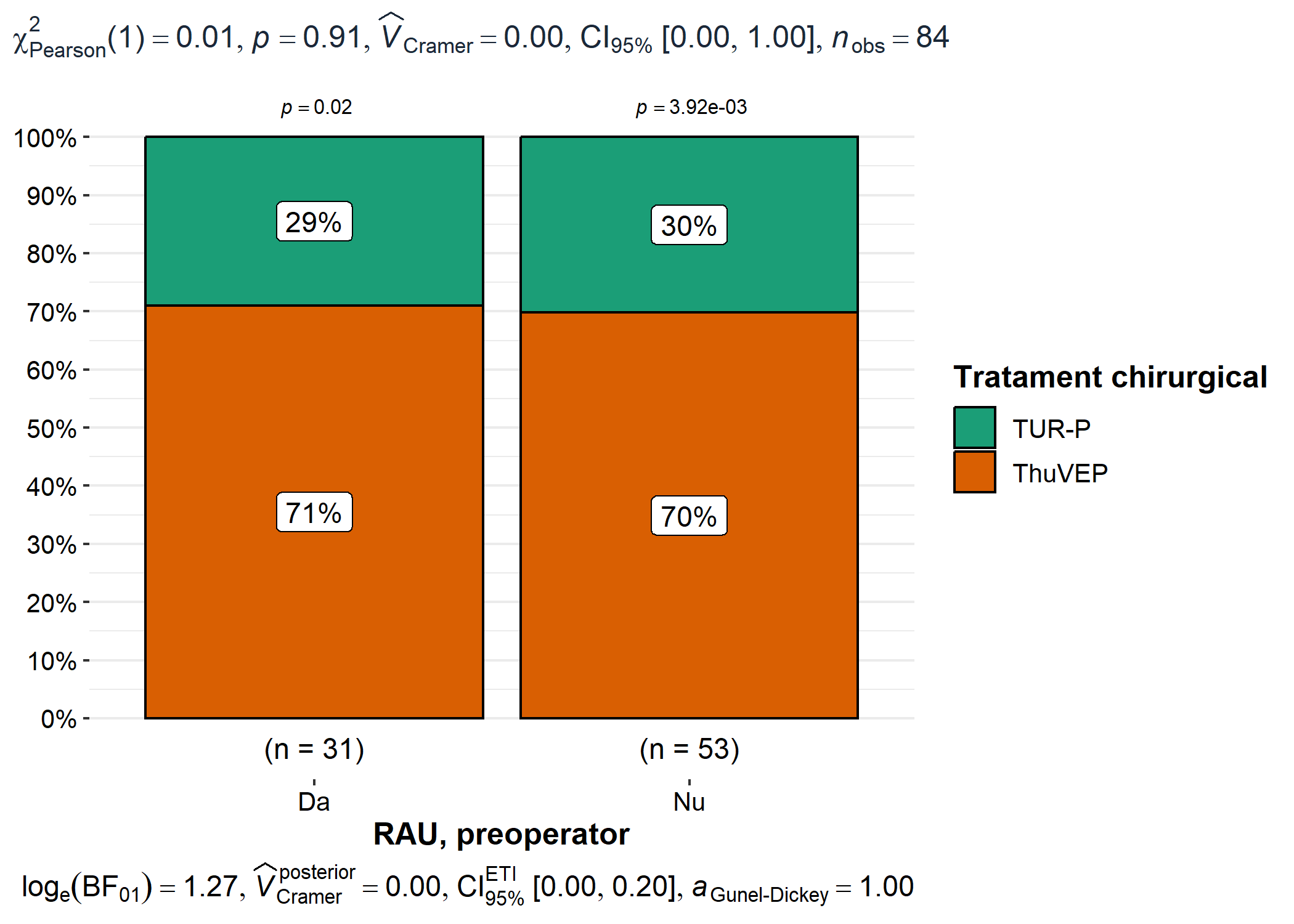
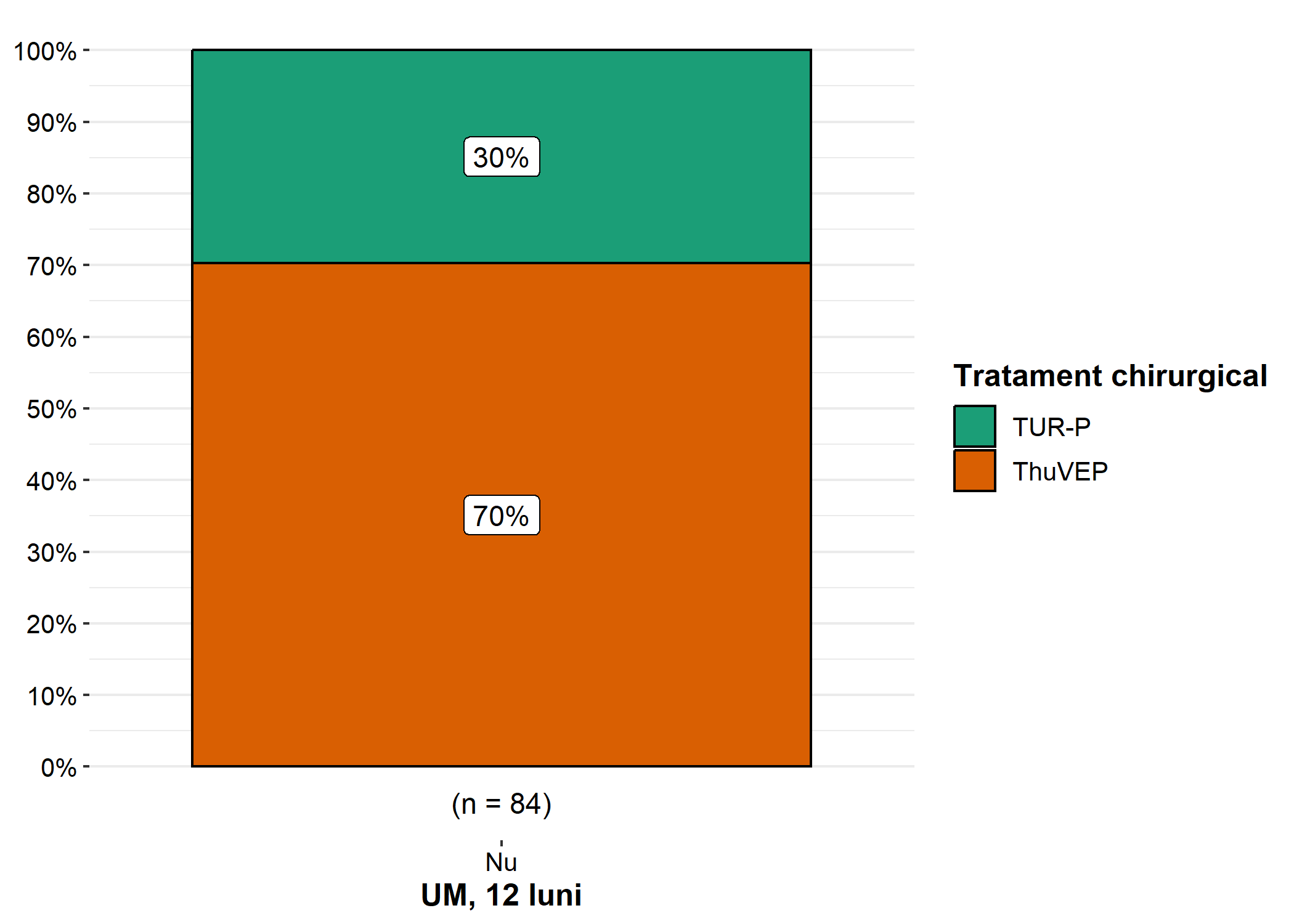
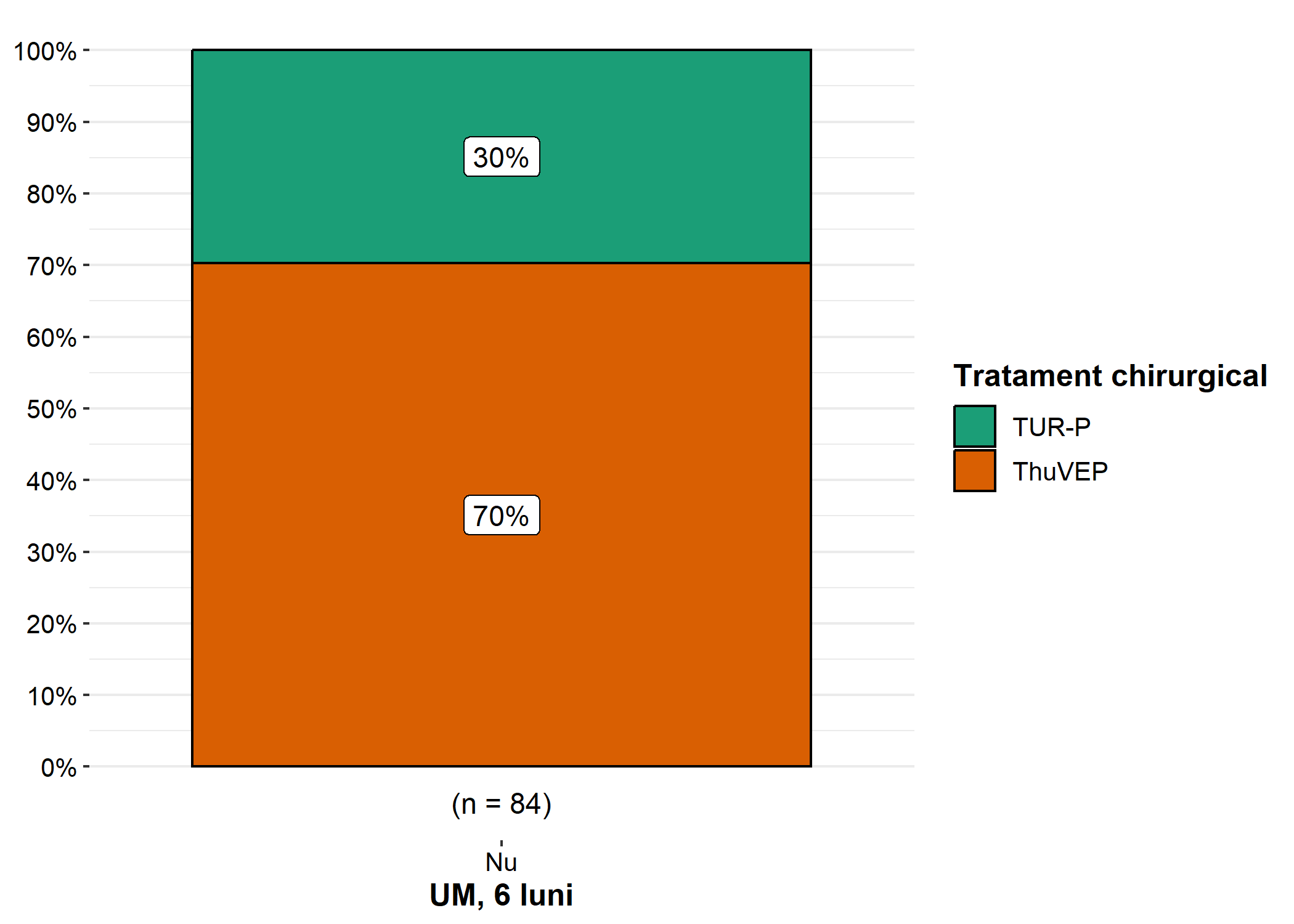
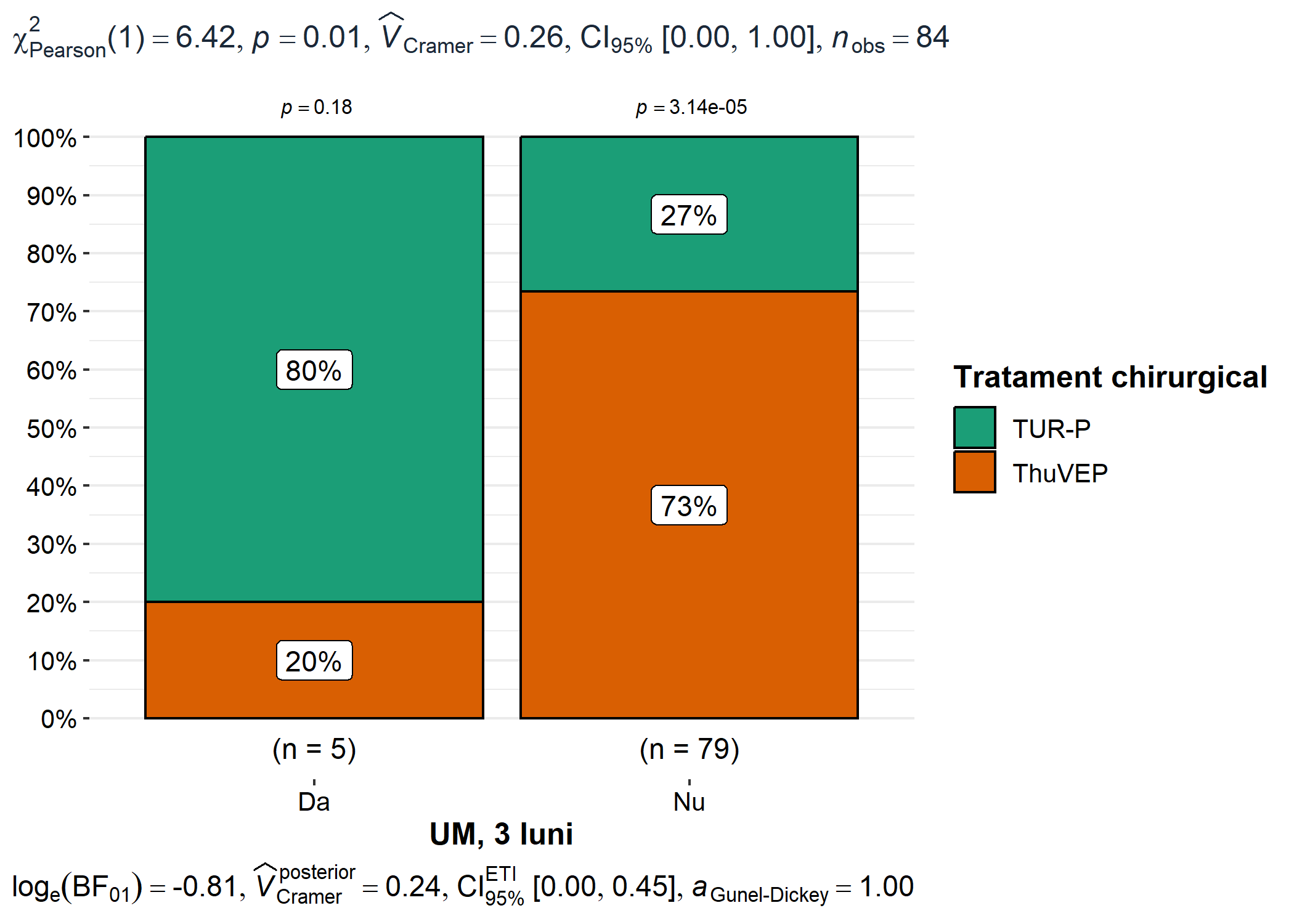
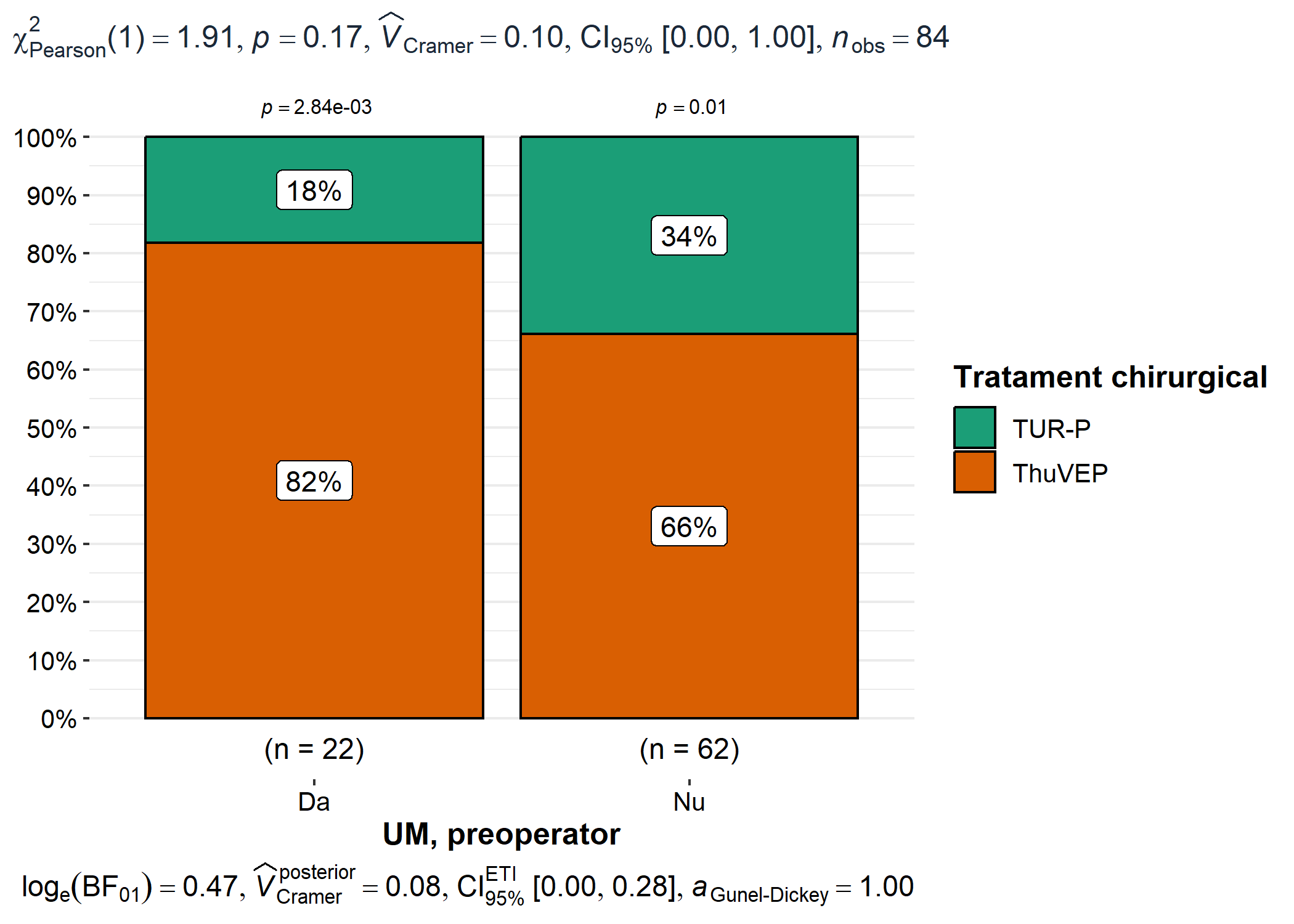
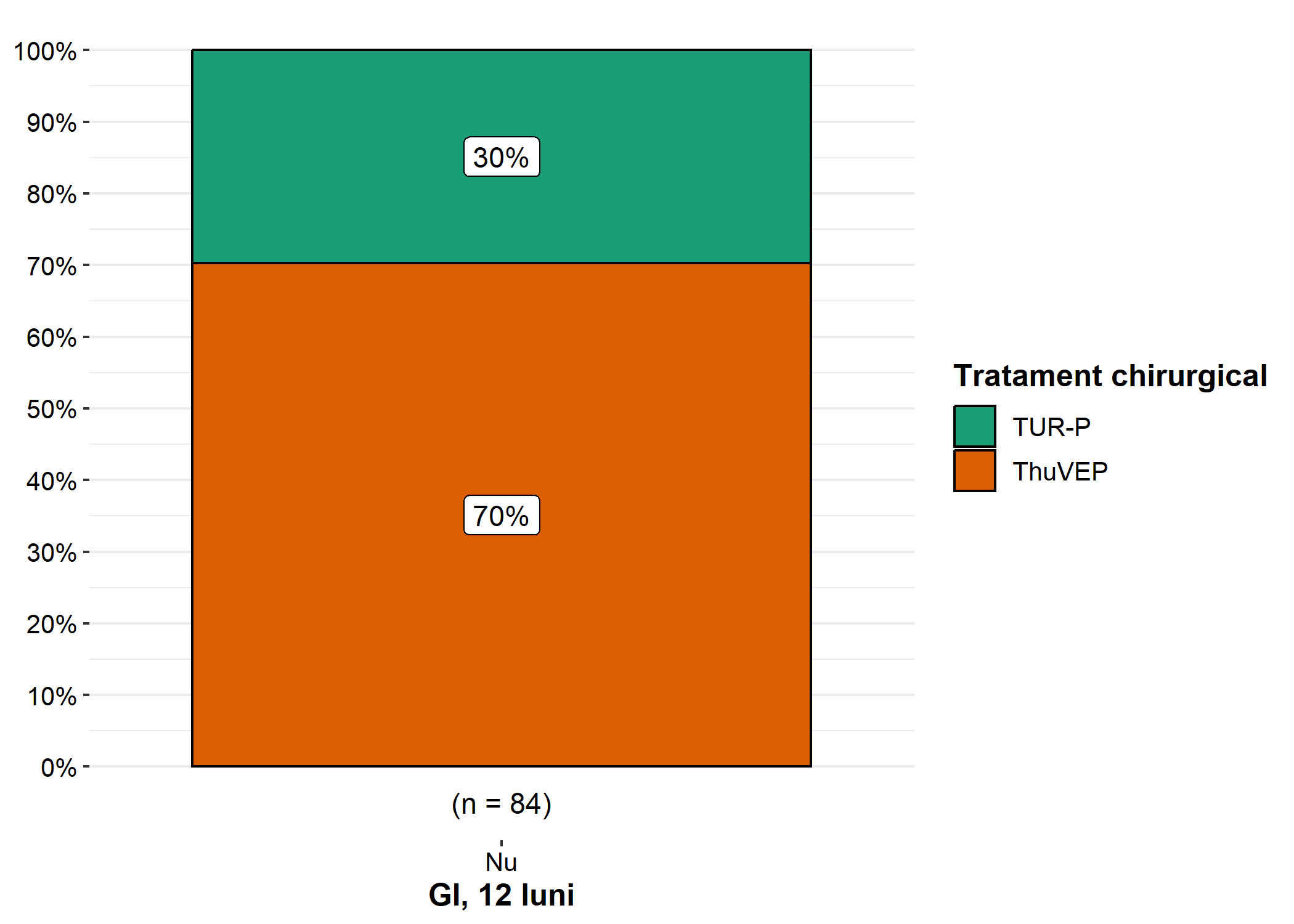
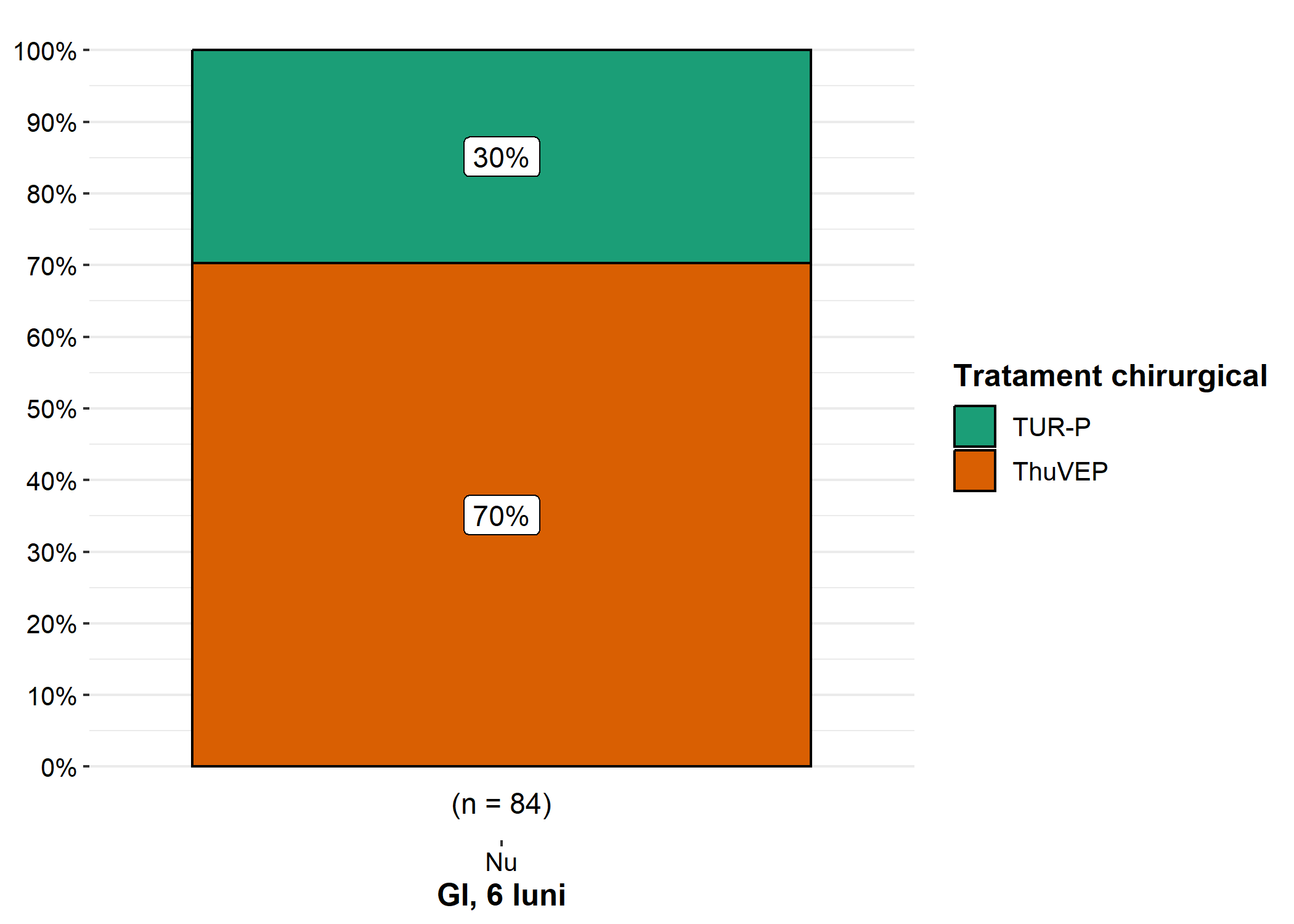
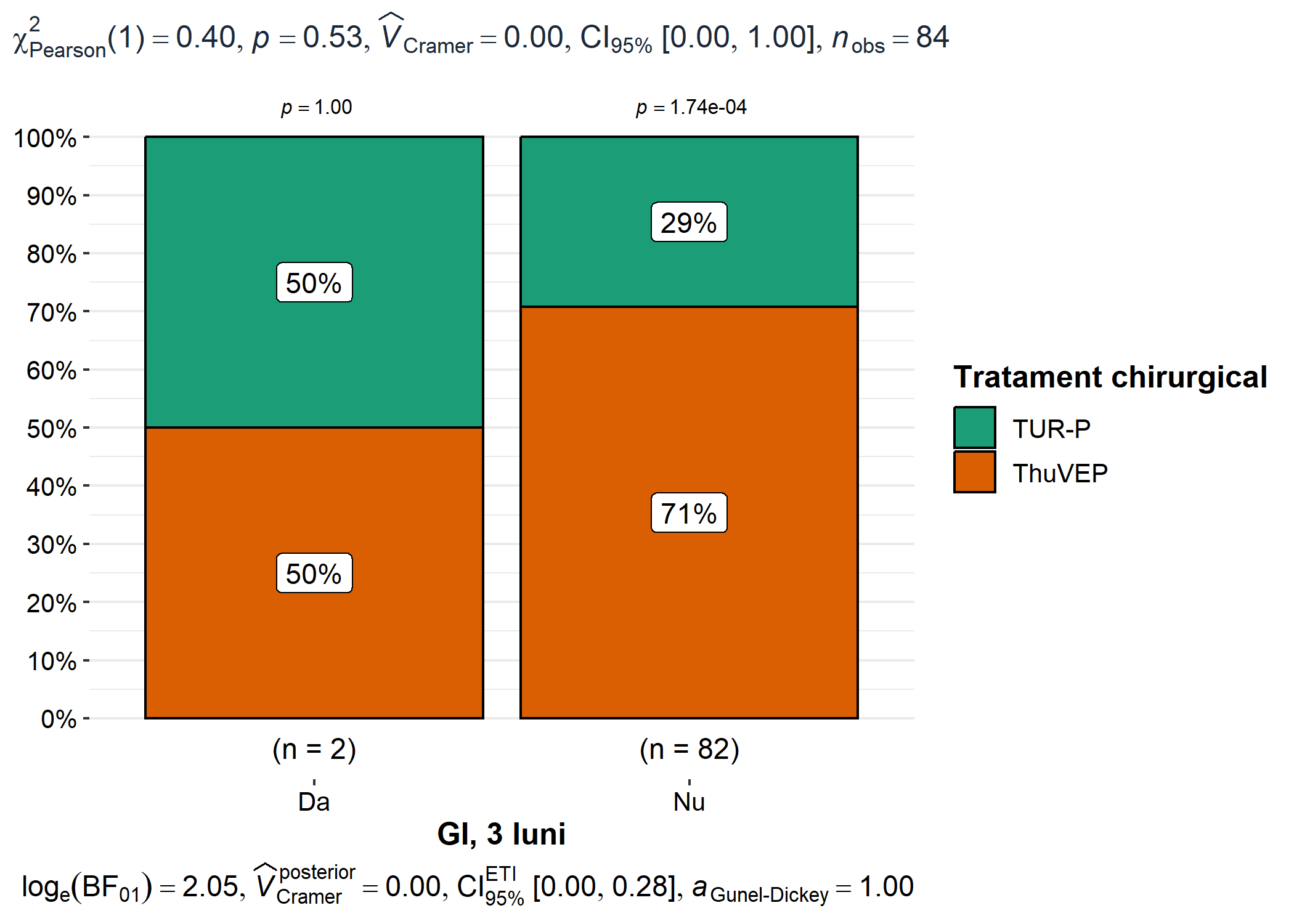
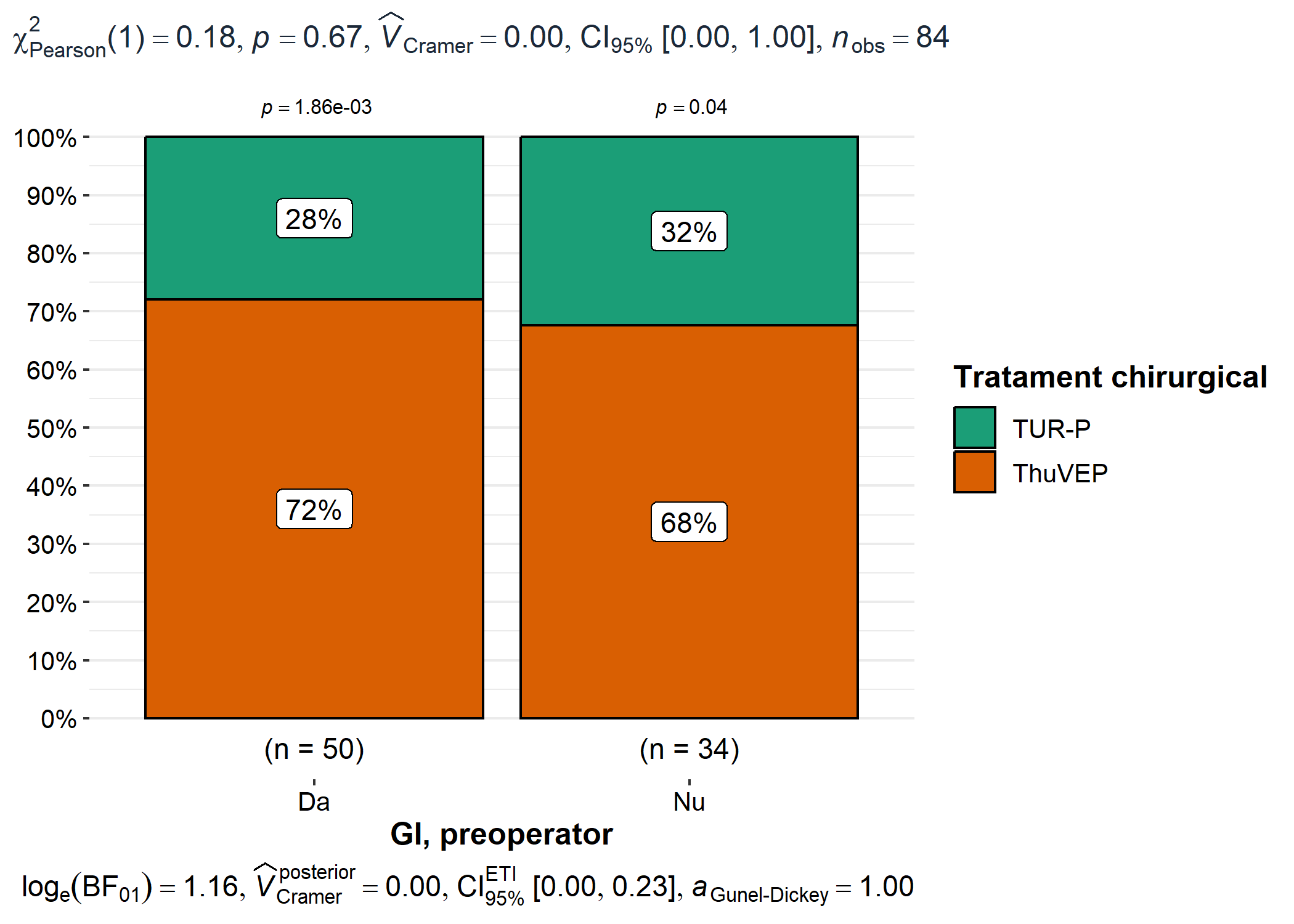
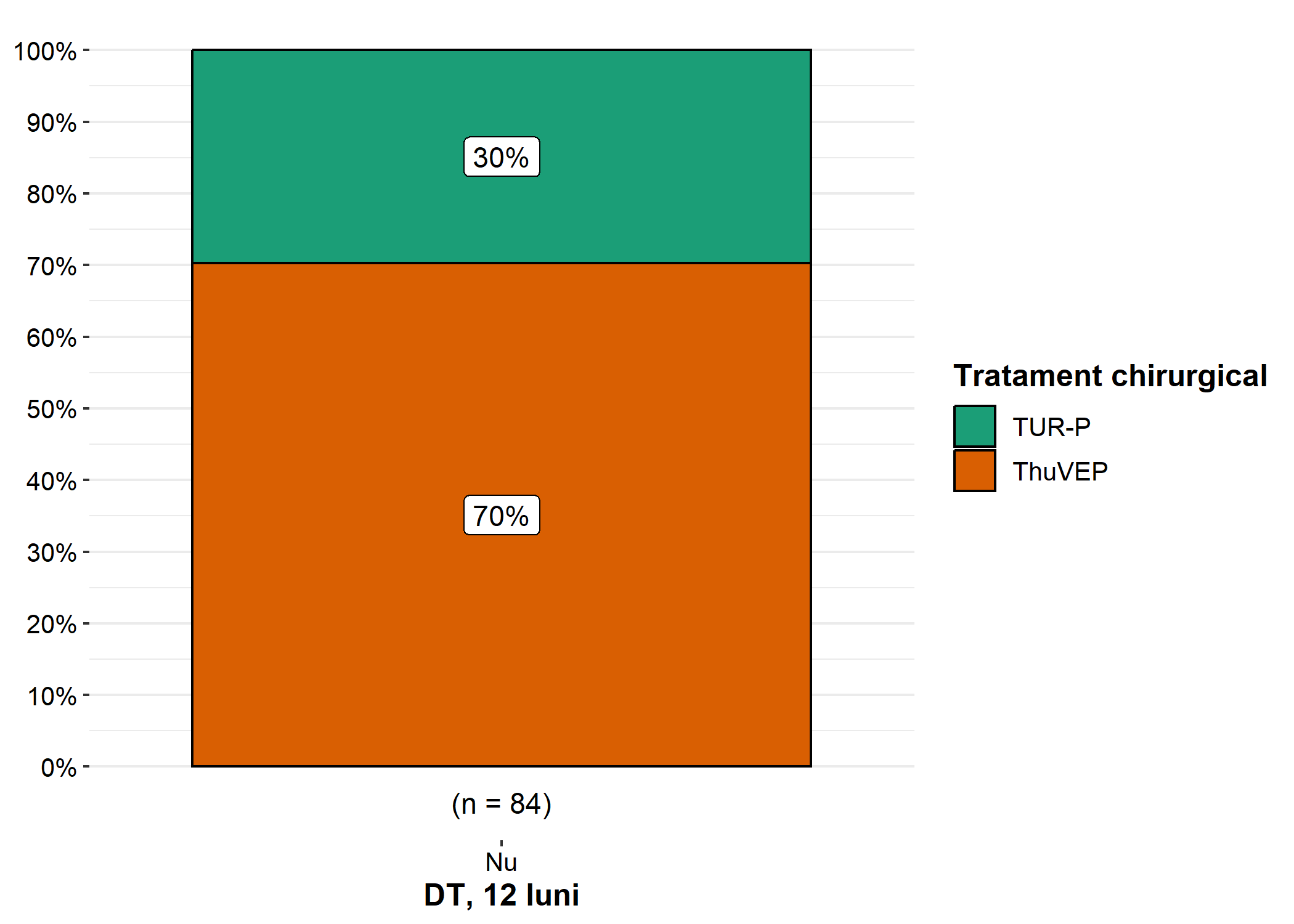
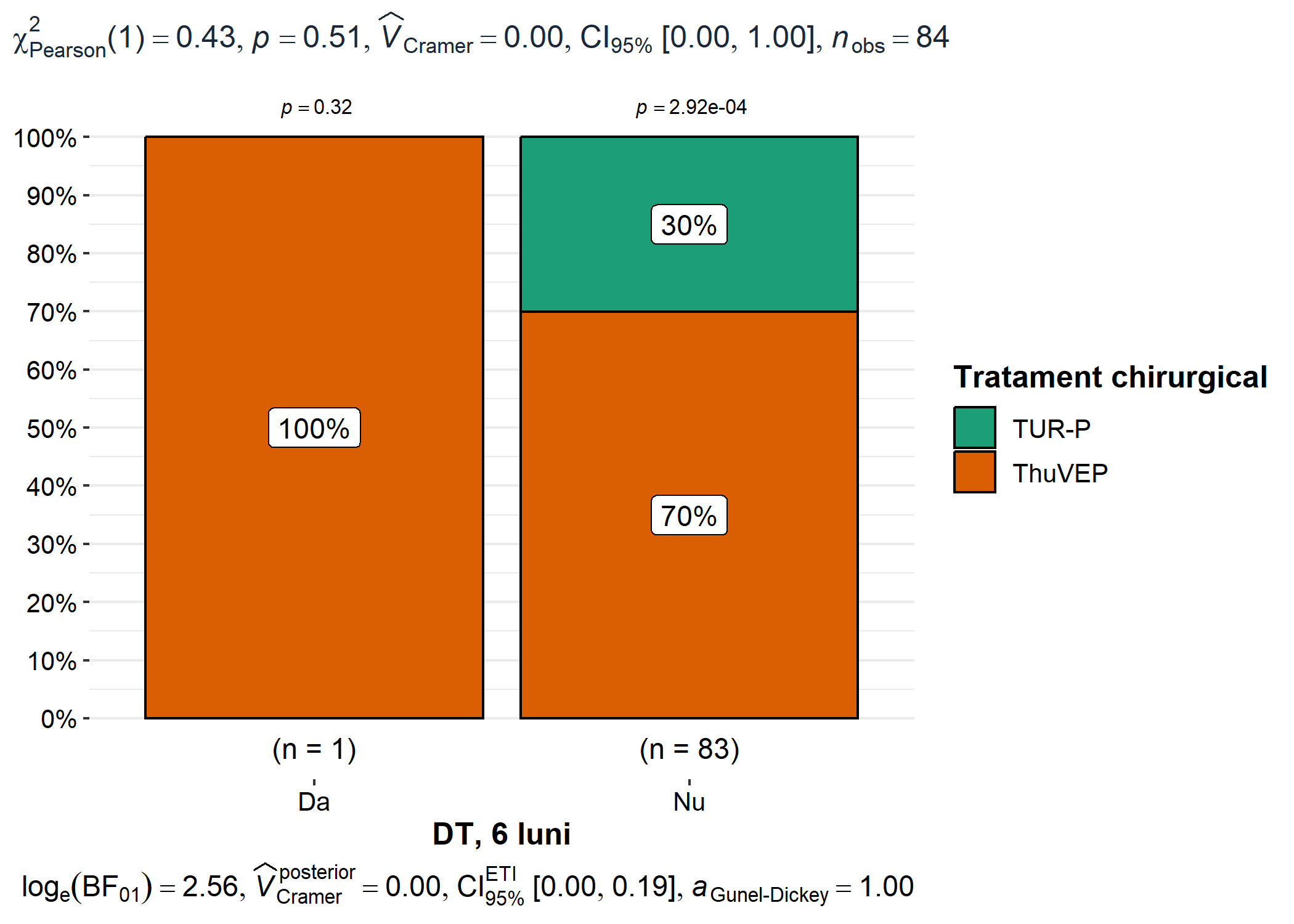
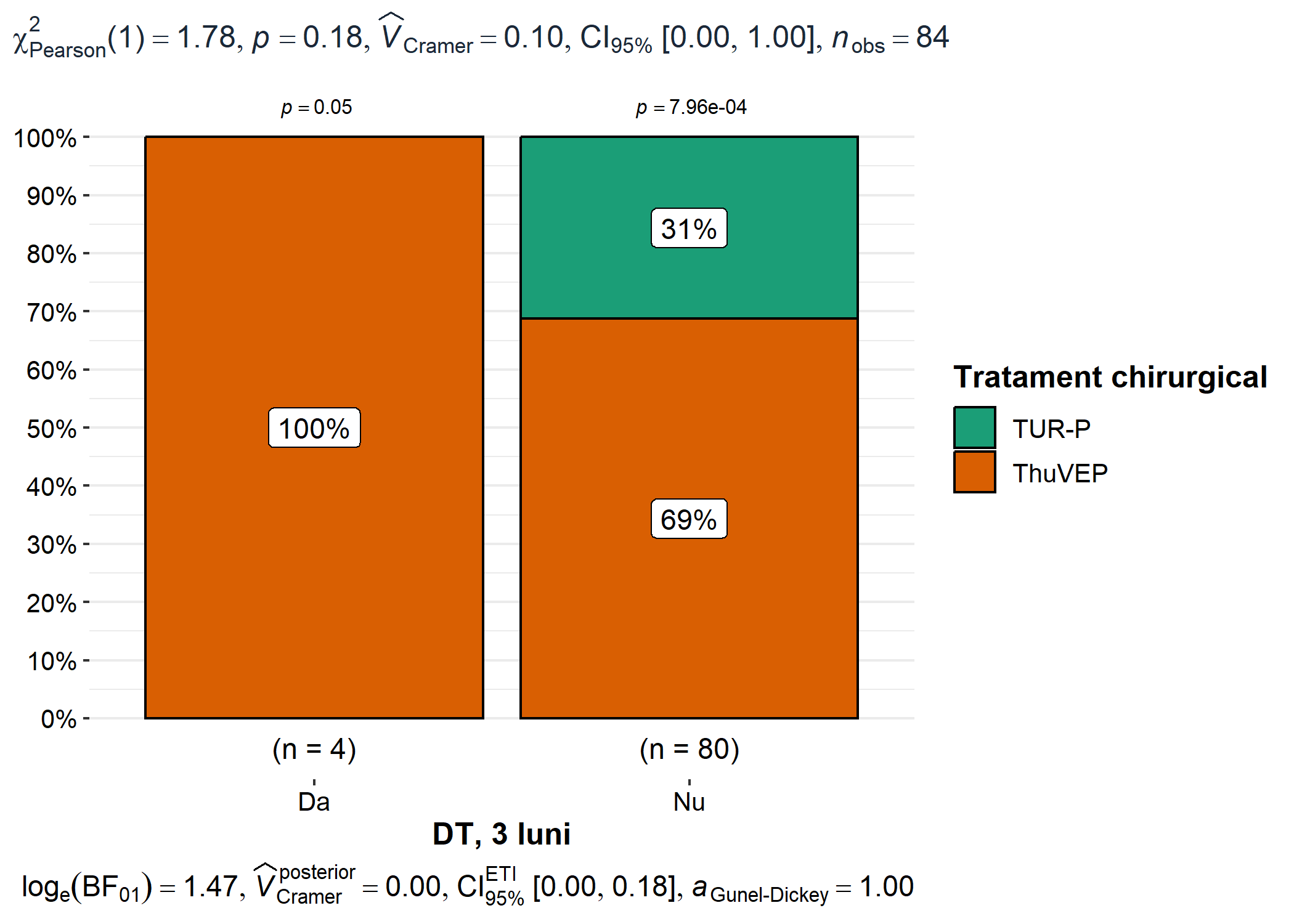
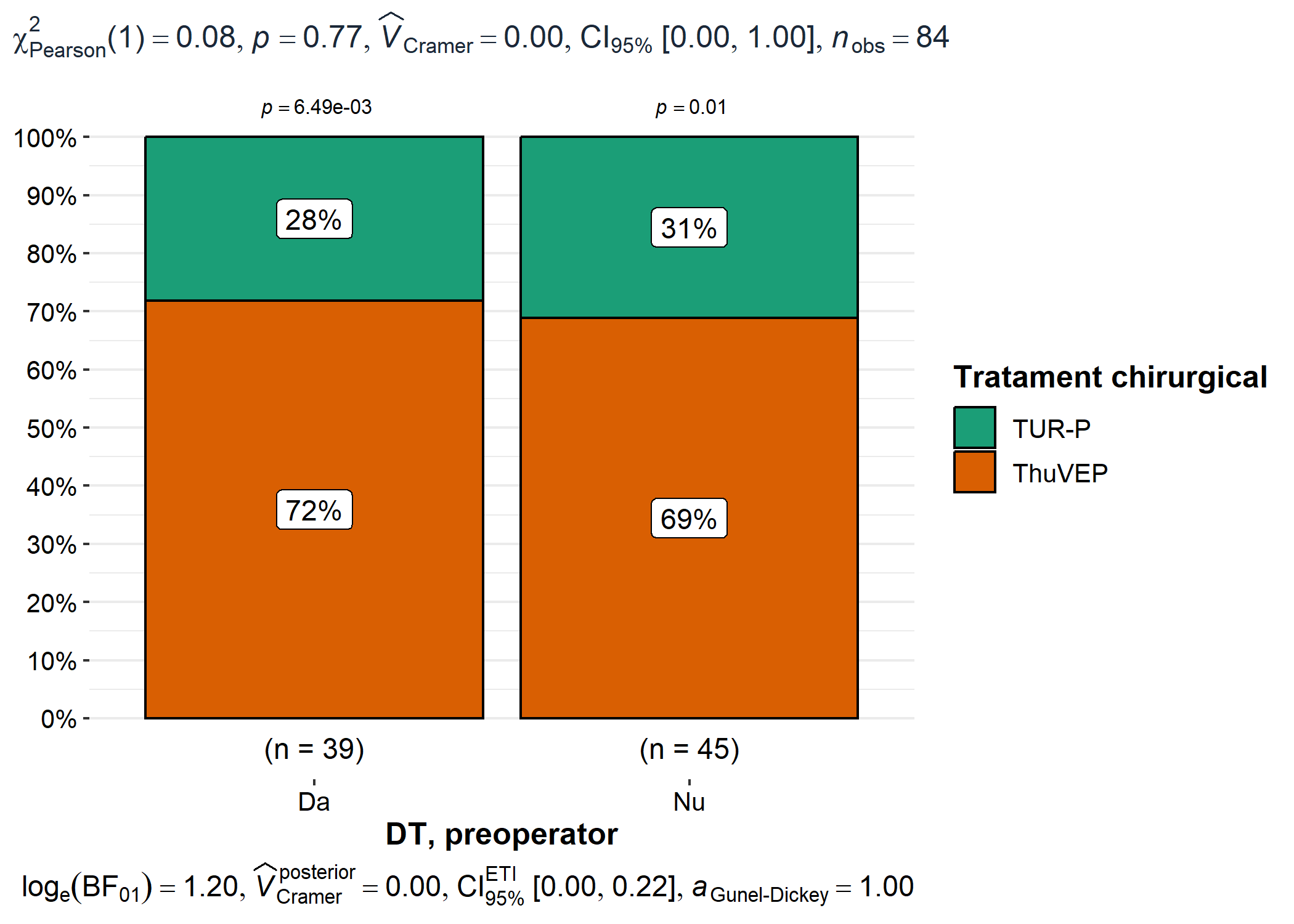
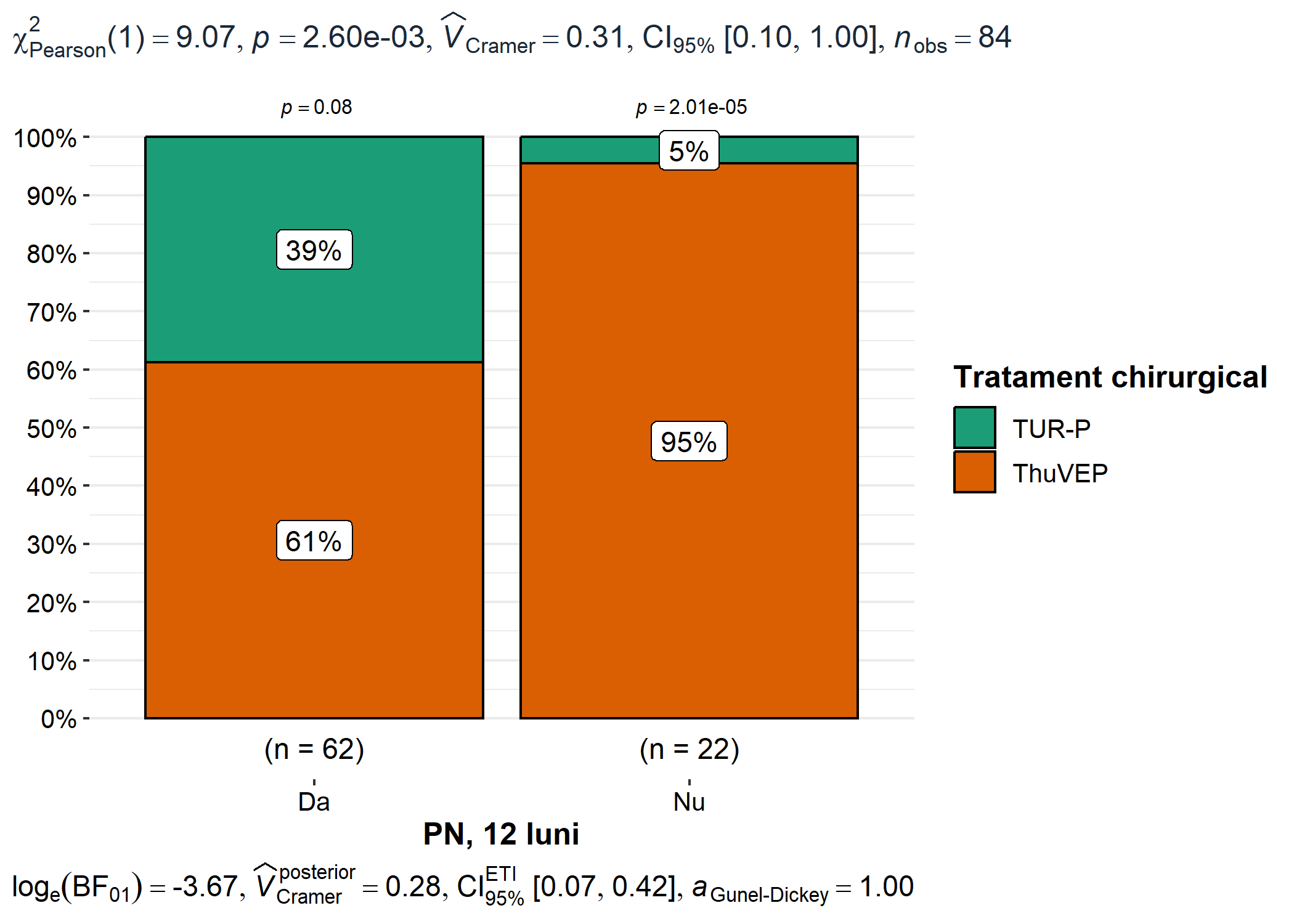
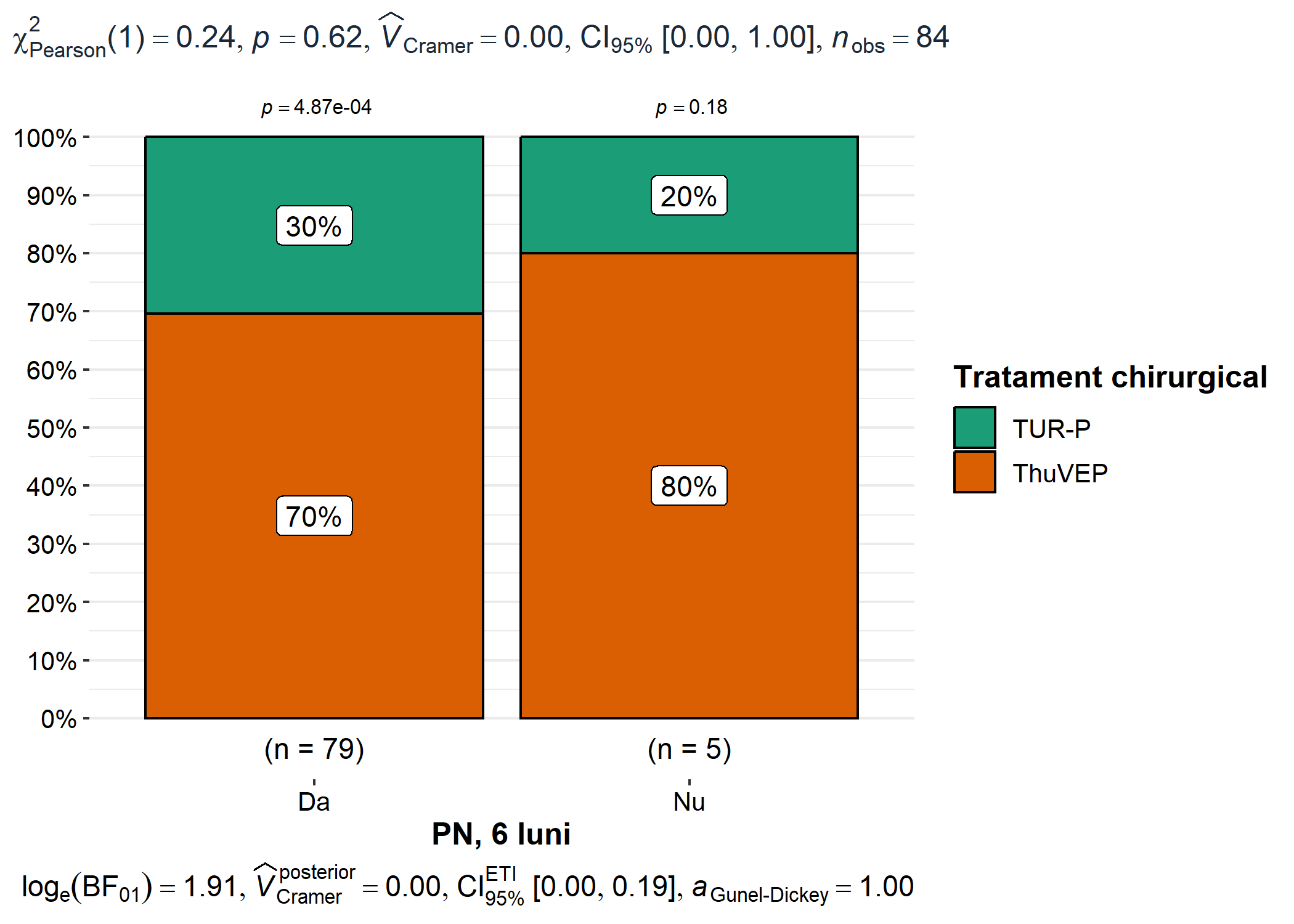
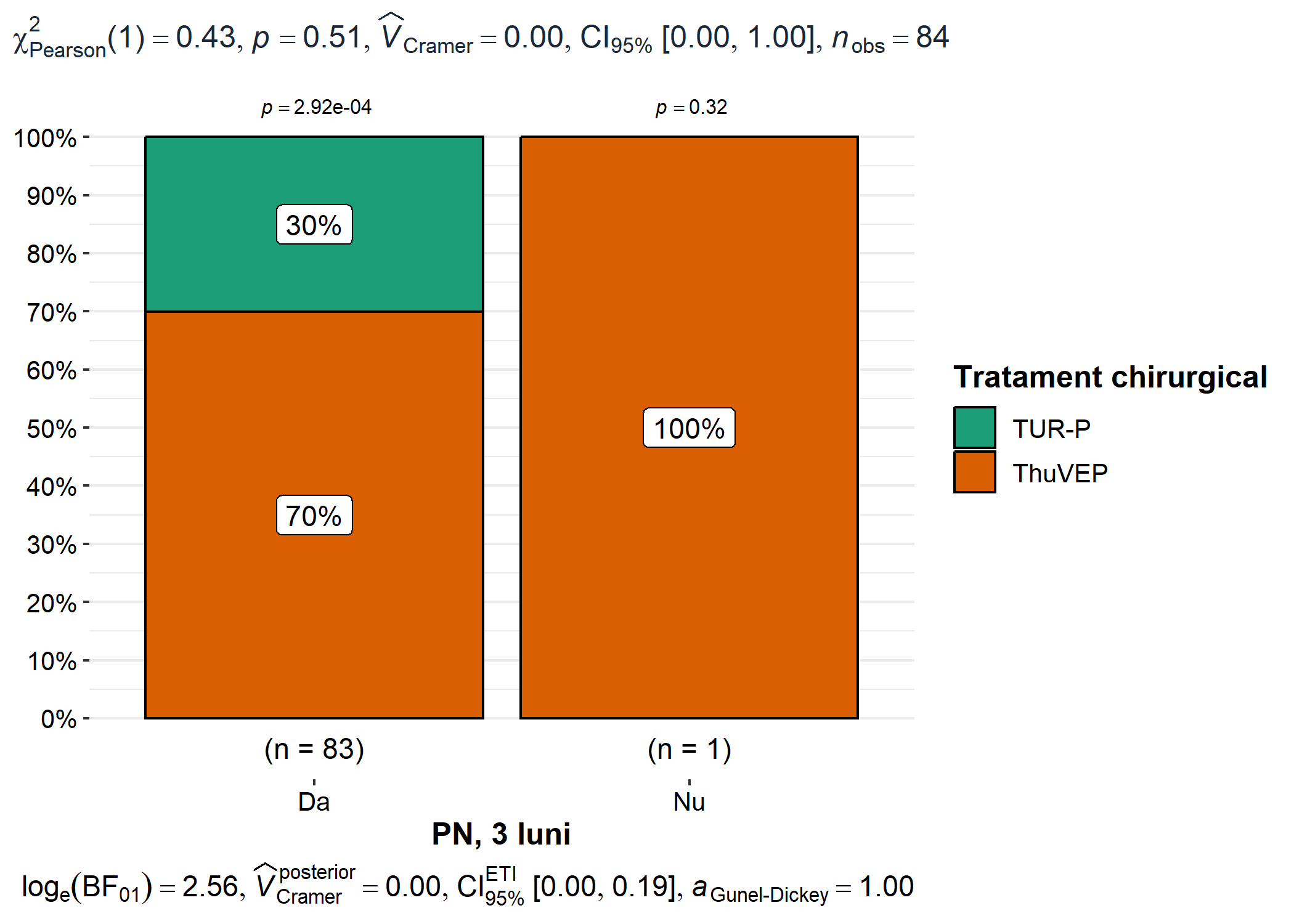
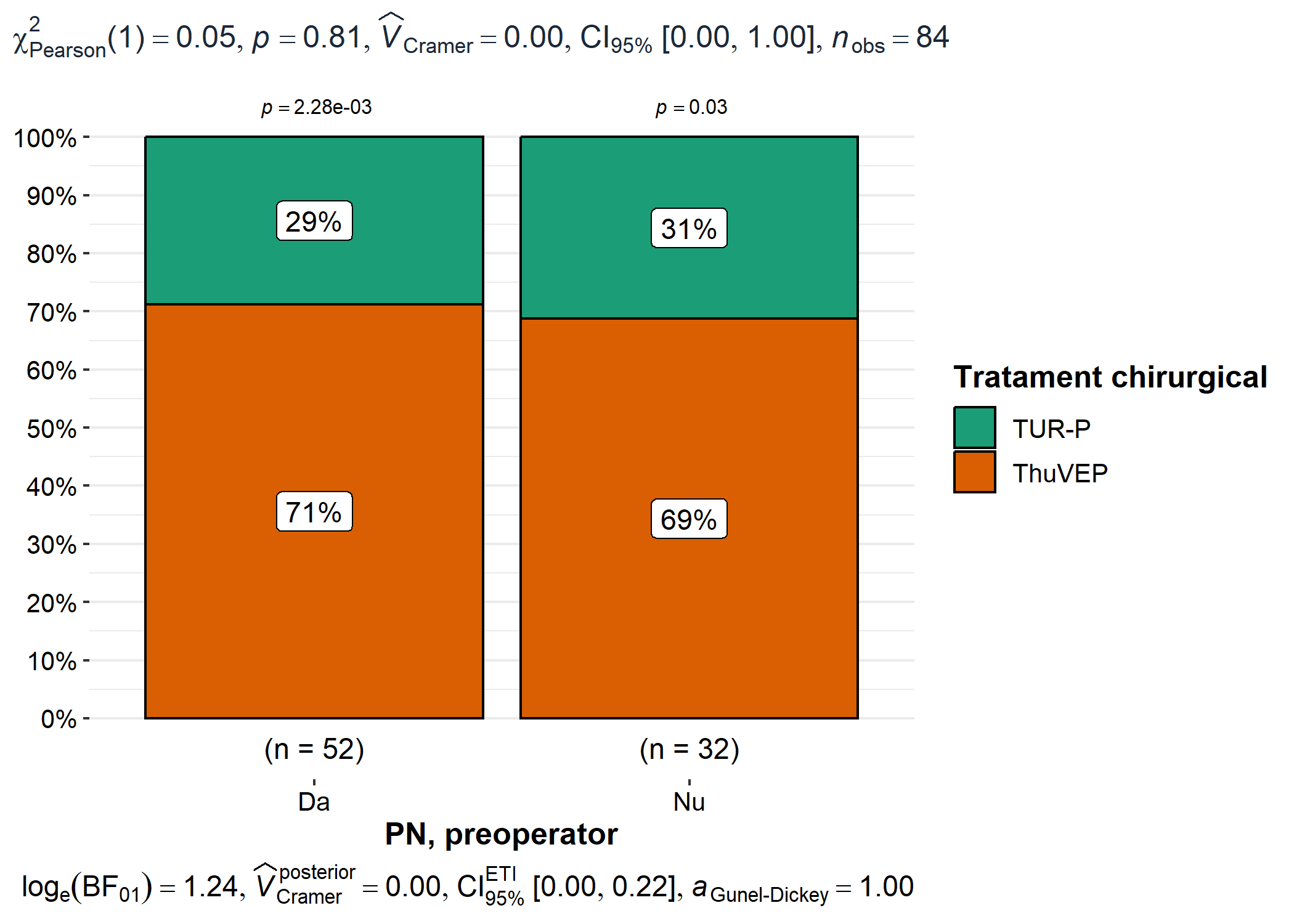
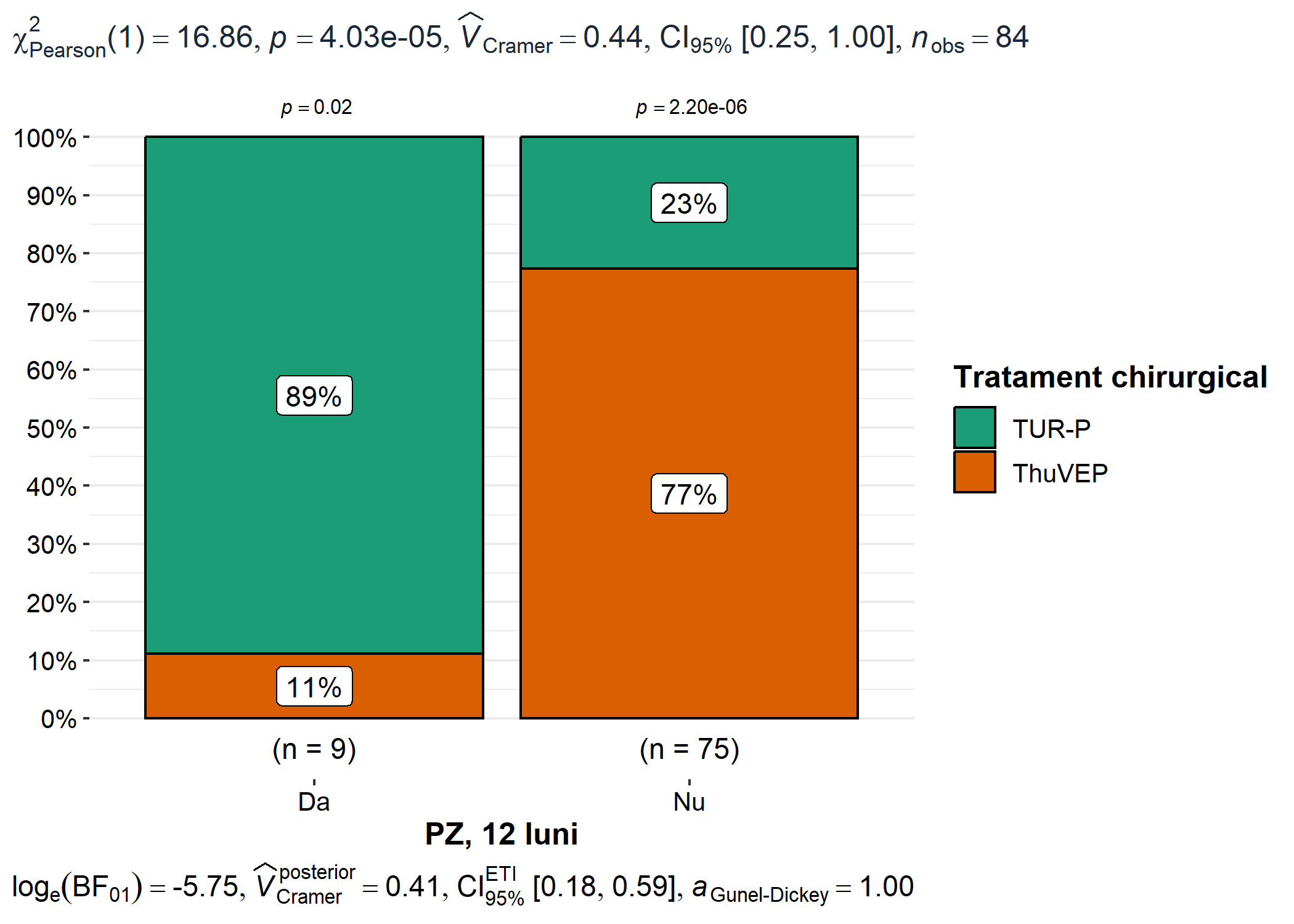
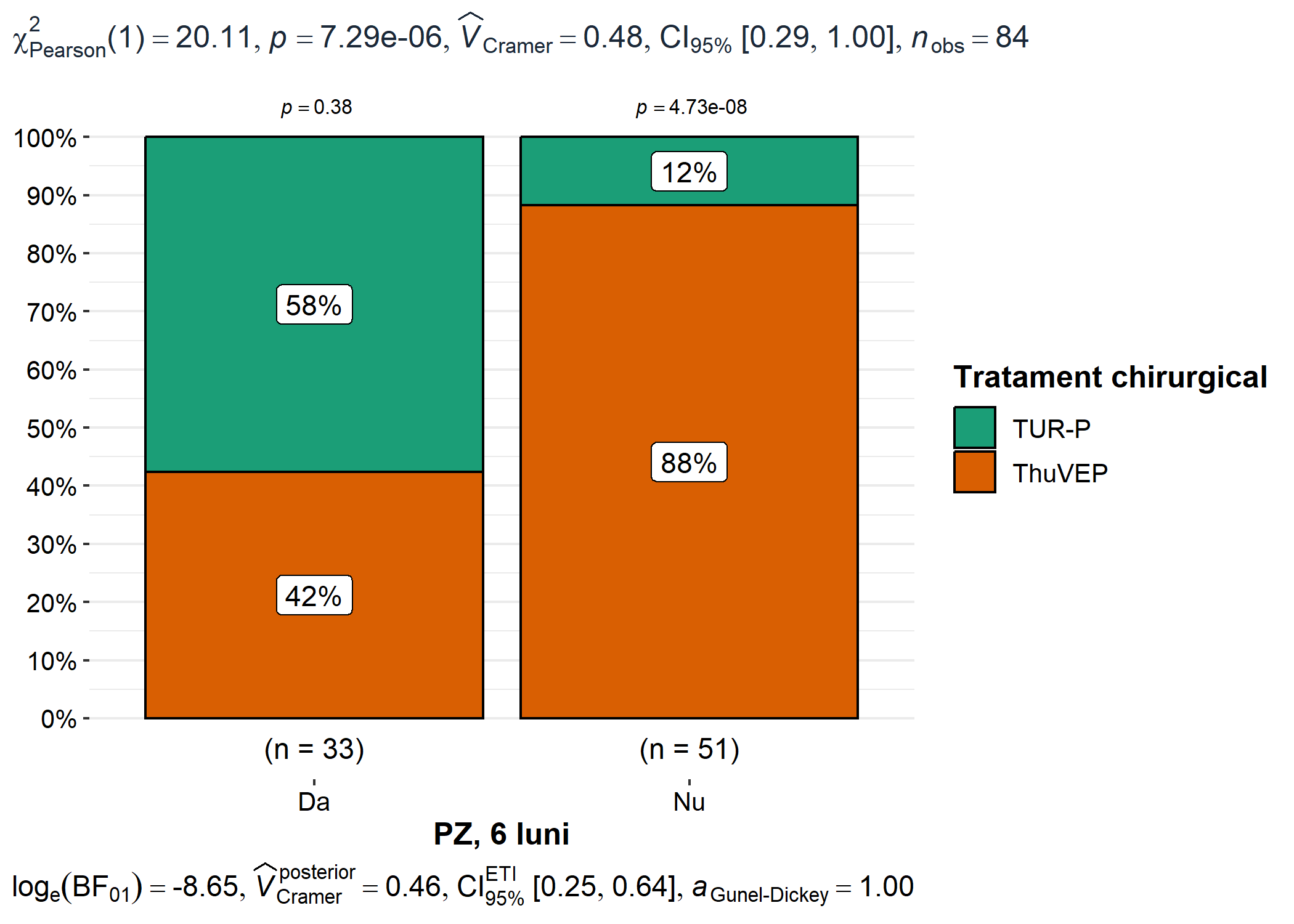
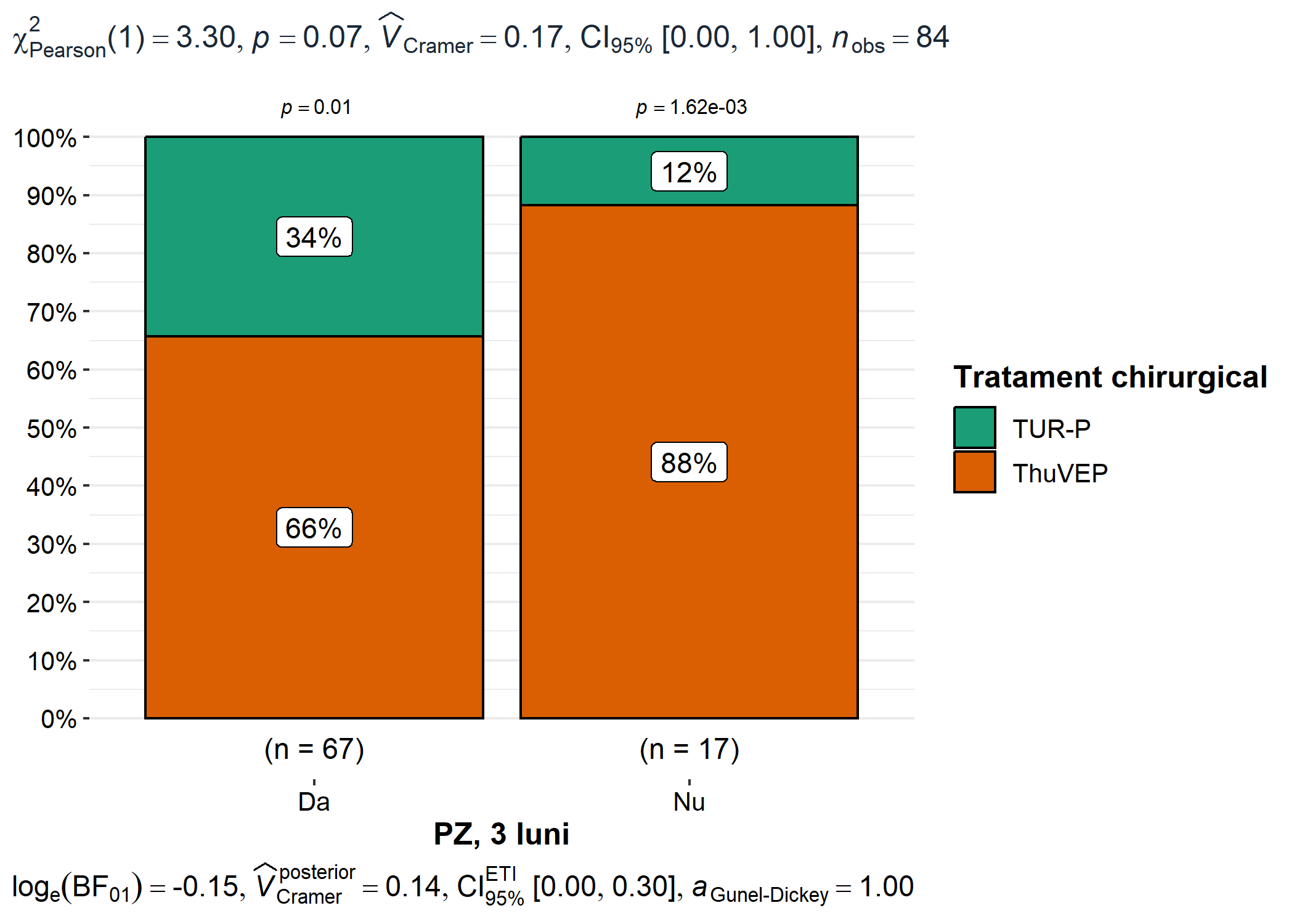
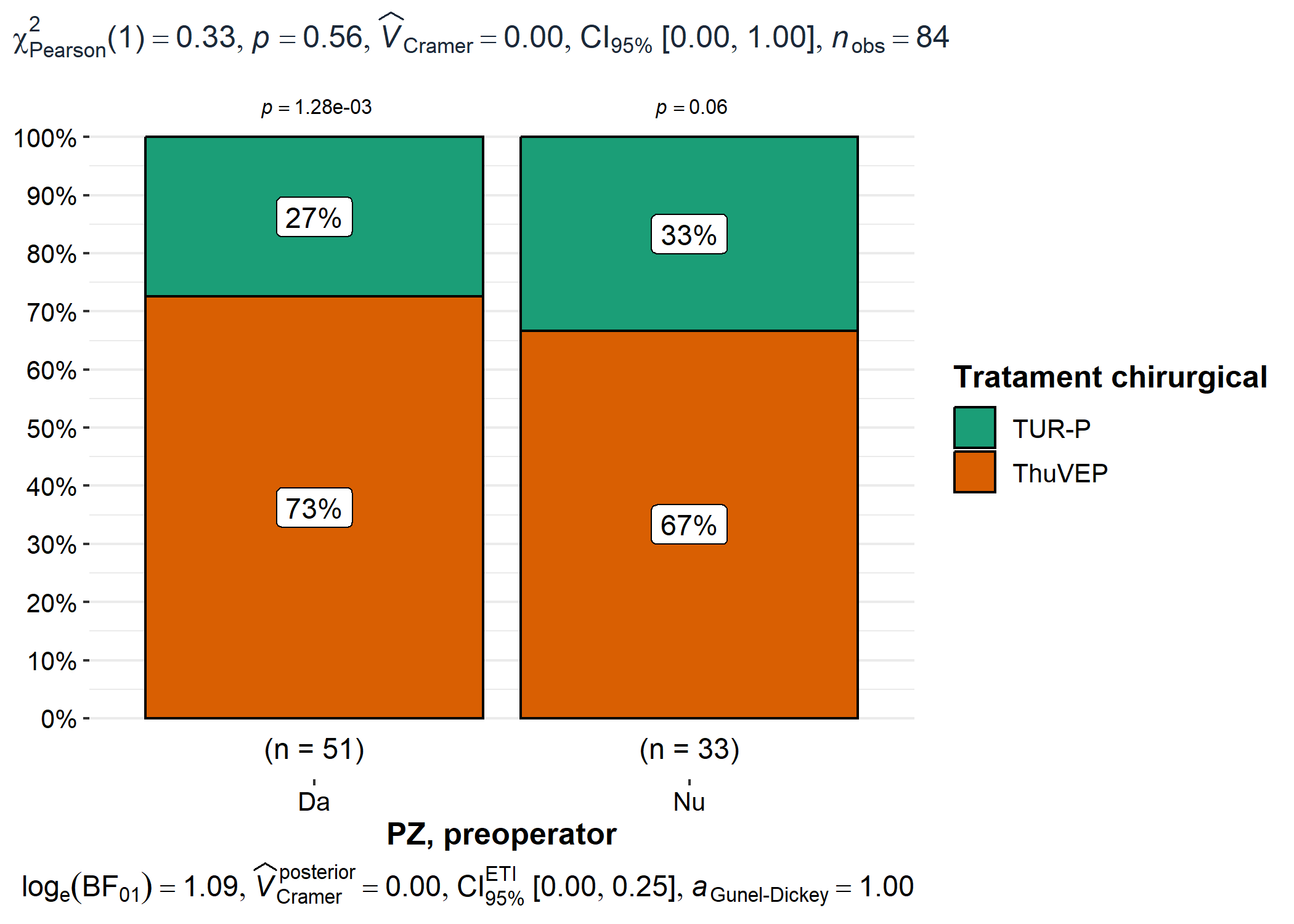
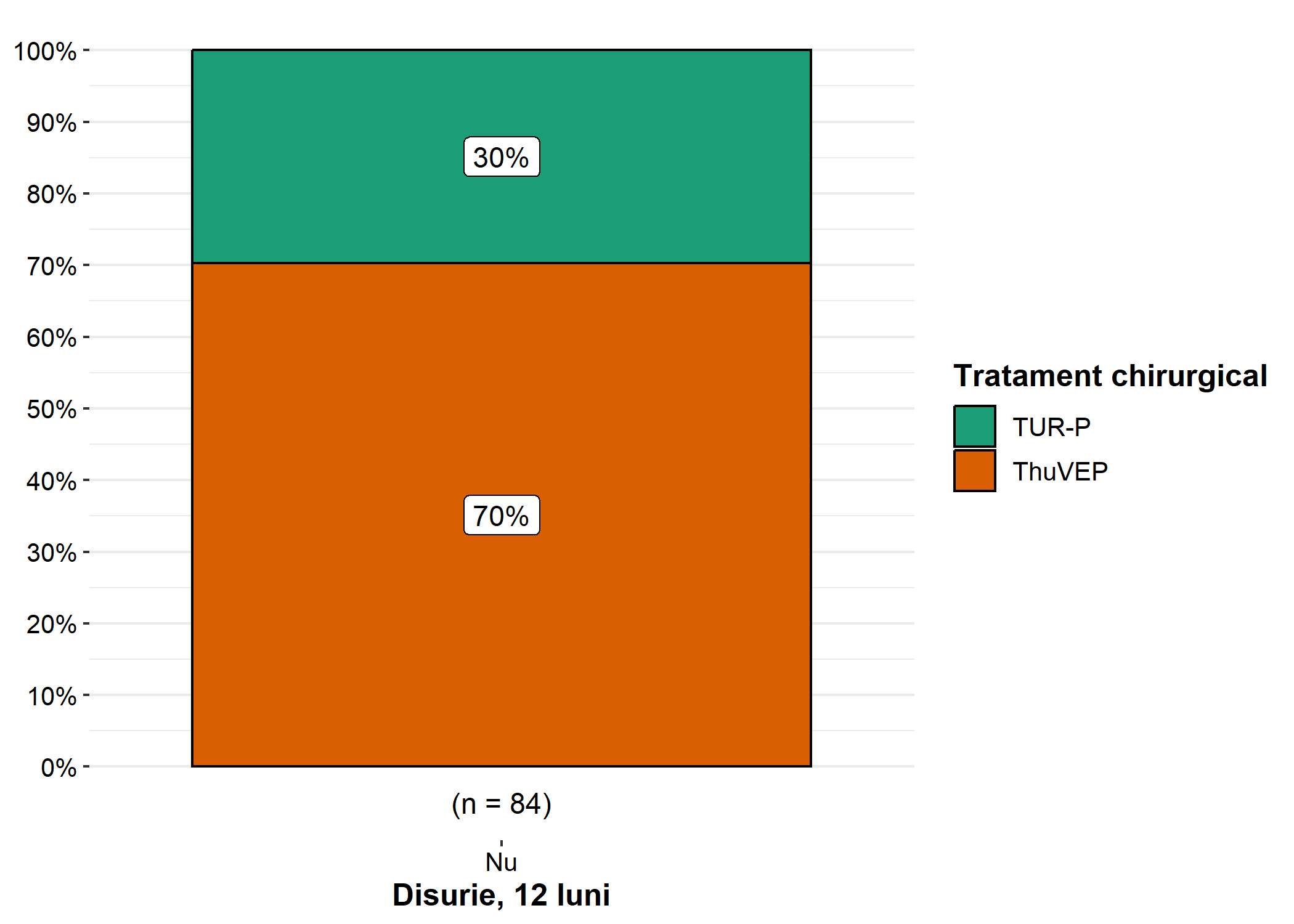
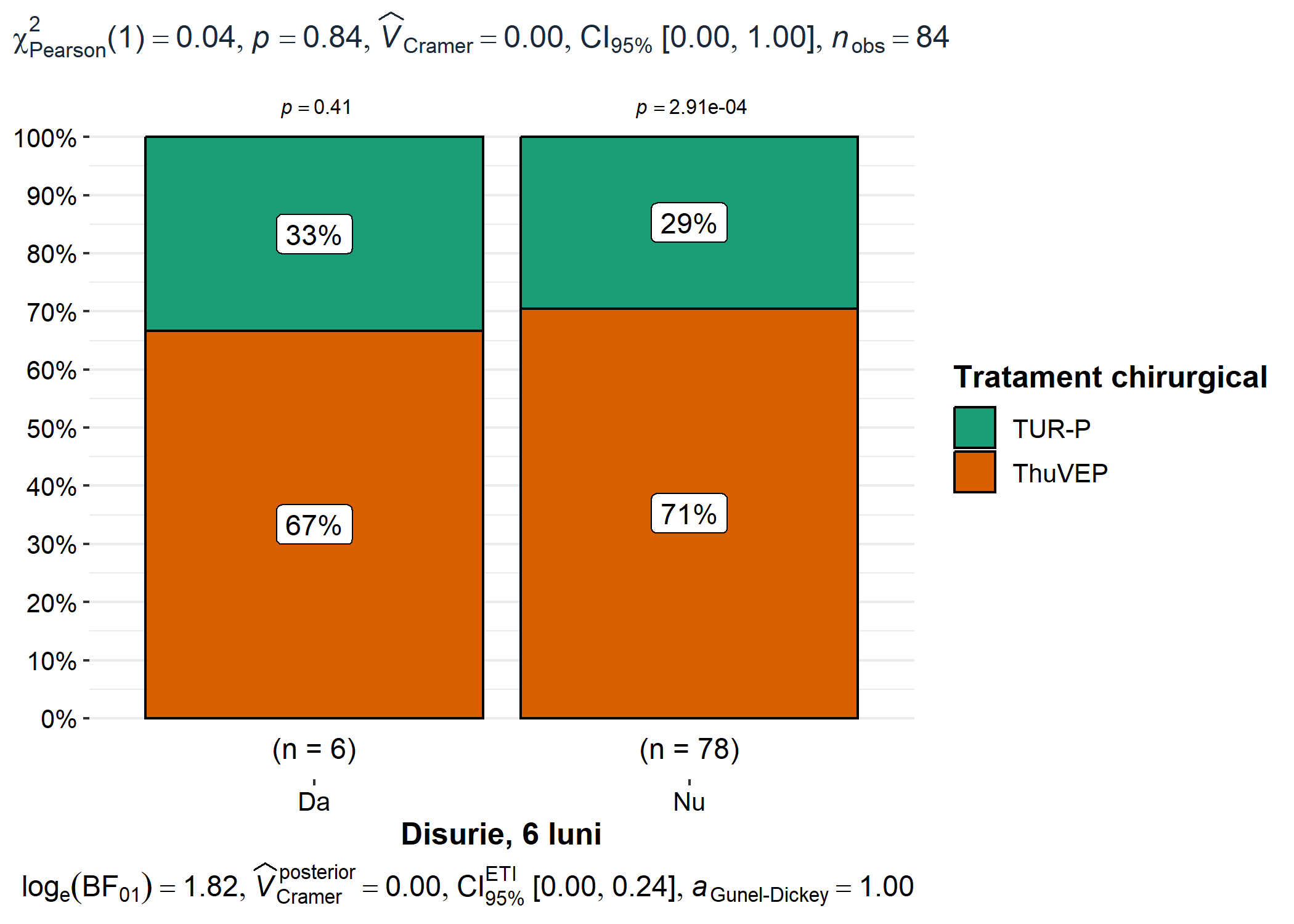
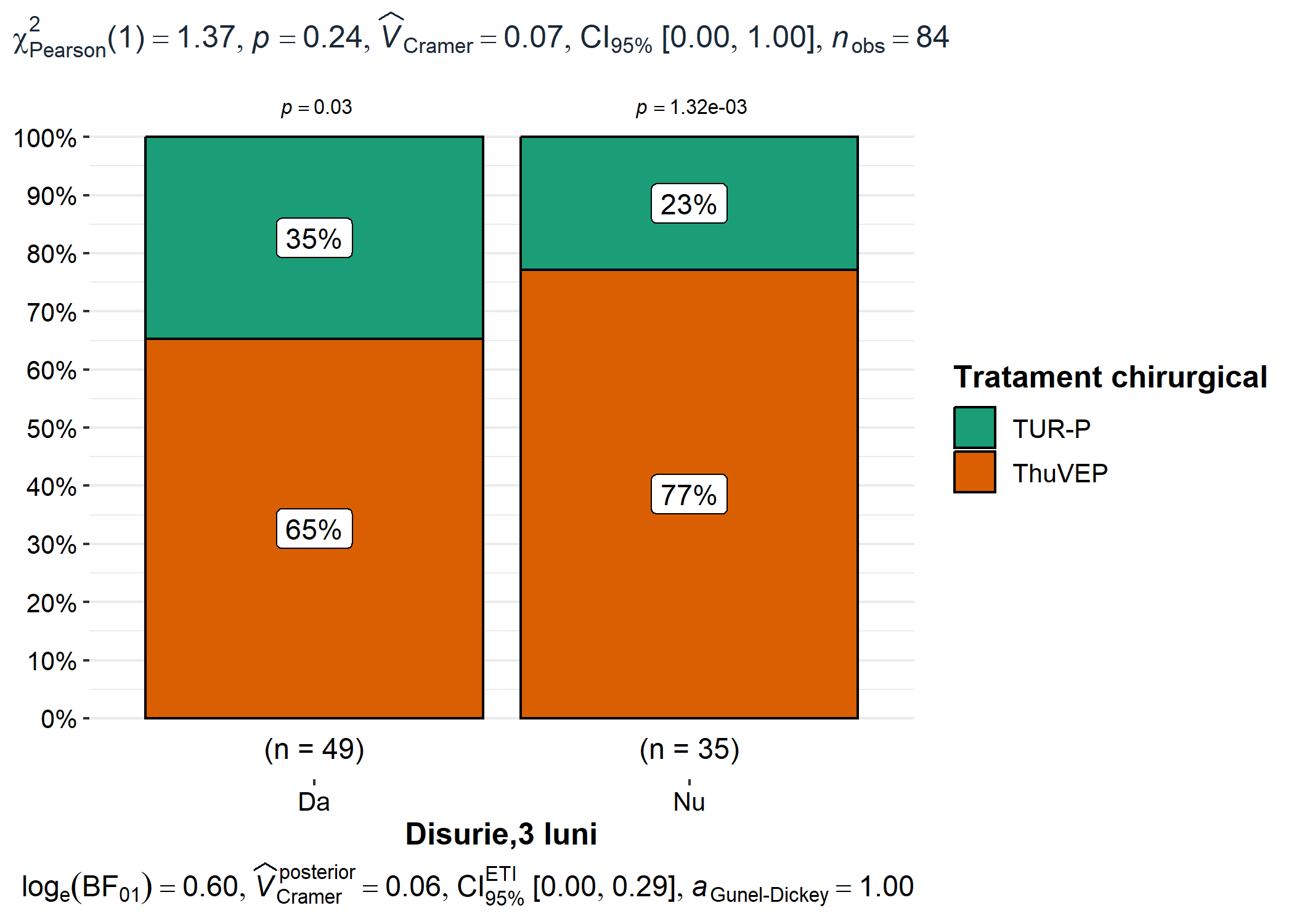
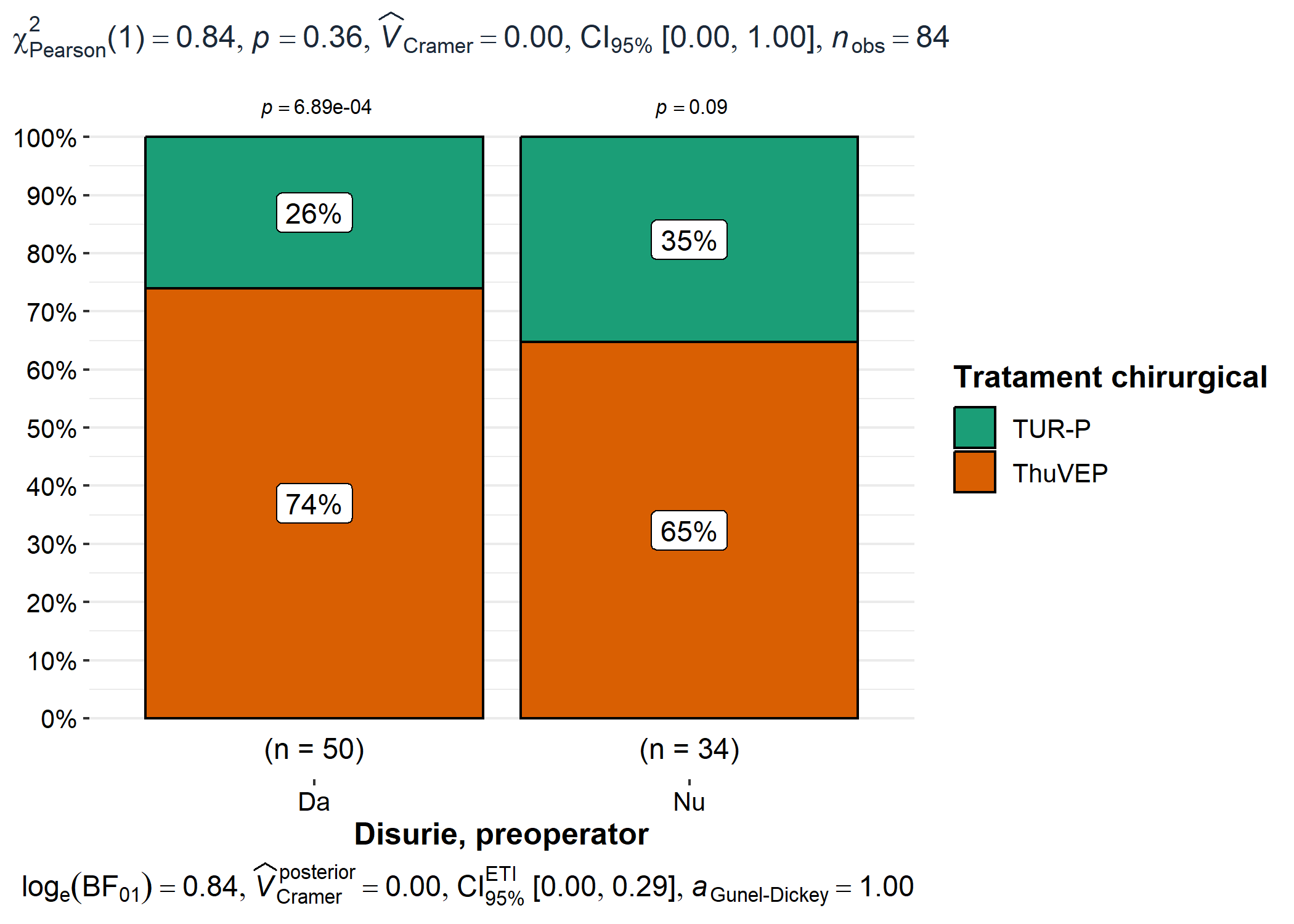
# Dataset formation

df <- read\_excel("Baza de date Plesacov TURP.xlsx")  
  
  
df %>% select(!c("Nr.", "Cod")) -> df   
   
  
# Identify character variables  
character\_vars <- sapply(df, is.character)  
  
# Convert character variables to factors  
df[character\_vars] <- lapply(df[character\_vars], as.factor)  
  
names(df)

## [1] "Vîrsta"   
## [2] "Statut ECOG"   
## [3] "Durata spitalizării"   
## [4] "Maladii CV"   
## [5] "Maladii TGI"   
## [6] "Maladii TU"   
## [7] "DZ"   
## [8] "Alfa adrenoblocante"   
## [9] "Inhibitorii 5 Alfa reductaza"   
## [10] "Inhibitorii 5 Alfa fosfodiesteraza"   
## [11] "Durata bolii"   
## [12] "Tratament chirurgical"   
## [13] "Durata intervenției"   
## [14] "Prezența cateturului urinar la spitaliare"  
## [15] "VP, preoperator"   
## [16] "VP, 3 luni"   
## [17] "VP, 6 luni"   
## [18] "VP, 12 luni"   
## [19] "UR, preoperator"   
## [20] "UR, 3 luni"   
## [21] "UR,6 luni"   
## [22] "UR, 12 luni"   
## [23] "Qmax, preoperator"   
## [24] "Qmax,3 luni"   
## [25] "Qmax, 6 luni"   
## [26] "Qmax, 12 luni"   
## [27] "Qmean, preoperator"   
## [28] "Qmean, 3 luni"   
## [29] "Qmean, 6 luni"   
## [30] "Qmean, 12 luni"   
## [31] "IPSS, preoperator"   
## [32] "IPSS,3 luni"   
## [33] "IPSS, 6 luni"   
## [34] "IPSS, 12 luni"   
## [35] "QoL, preoperator"   
## [36] "Qol, 3 luni"   
## [37] "Qol, 6 luni"   
## [38] "QoL, 12 luni"   
## [39] "IIEF-5, preoperator"   
## [40] "IIEF-5, 3 luni"   
## [41] "IIEF-5, 6 luni"   
## [42] "IIEF-5, 12 luni"   
## [43] "PSA, preoperator"   
## [44] "PSA, 3 luni"   
## [45] "PSA, 6 luni"   
## [46] "PSA, 12 luni"   
## [47] "Leucociturie, preoperator"   
## [48] "Leucociturie, 3 luni"   
## [49] "Leucociturie, 6 luni"   
## [50] "Leucociturie, 12 luni"   
## [51] "Hb, preoperator"   
## [52] "Hb, 1 zi postoperator"   
## [53] "Urocultura"   
## [54] "Germen patogent"   
## [55] "Perioada aparitiei complicațiilor"   
## [56] "Uretrita"   
## [57] "Prostatita"   
## [58] "Orhoepididimita"   
## [59] "Strictura uretrei"   
## [60] "Scleroza de col a vezicii urinare"   
## [61] "Hemoragie ce necesita hemotransfuzie"   
## [62] "Recateterizare"   
## [63] "Grad"   
## [64] "Durata hematuriei"   
## [65] "Durata cateterizării"   
## [66] "Disurie, preoperator"   
## [67] "Disurie,3 luni"   
## [68] "Disurie, 6 luni"   
## [69] "Disurie, 12 luni"   
## [70] "PZ, preoperator"   
## [71] "PZ, 3 luni"   
## [72] "PZ, 6 luni"   
## [73] "PZ, 12 luni"   
## [74] "PN, preoperator"   
## [75] "PN, 3 luni"   
## [76] "PN, 6 luni"   
## [77] "PN, 12 luni"   
## [78] "DT, preoperator"   
## [79] "DT, 3 luni"   
## [80] "DT, 6 luni"   
## [81] "DT, 12 luni"   
## [82] "GI, preoperator"   
## [83] "GI, 3 luni"   
## [84] "GI, 6 luni"   
## [85] "GI, 12 luni"   
## [86] "UM, preoperator"   
## [87] "UM, 3 luni"   
## [88] "UM, 6 luni"   
## [89] "UM, 12 luni"   
## [90] "RAU, preoperator"   
## [91] "RAU, 3 luni"   
## [92] "RAU, 6 luni"   
## [93] "RAU, 12 luni"

# Outcomes

# https://indrajeetpatil.github.io/ggstatsplot/index.html  
  
# names(df[, 66:93])   
  
for (i in names(df[, 66:93]) ) {  
   
p <- ggbarstats(df, x = "Tratament chirurgical", y = {{ i }})  
  
p <- p +  
 theme(  
 text = element\_text(family = "Roboto", size = 14, color = "black"),  
 plot.title = element\_text(  
 family = "Lobster Two",  
 size = 12,  
 face = "bold",  
 color = "#2a475e"  
 ),  
 plot.subtitle = element\_text(  
 family = "Roboto",  
 size = 12,  
 face = "bold",  
 color = "#1b2838"  
 ),  
 plot.title.position = "plot",  
 axis.text = element\_text(size = 10, color = "black"),  
 axis.title = element\_text(size = 12),  
 legend.text = element\_text(size = 10),  
 legend.title = element\_text(size = 12)  
 )  
  
print(p)  
  
}



library(tidyr)  
  
  
long\_data <- df[, c("Disurie, preoperator", "Disurie,3 luni",  
 "Disurie, 6 luni", "Disurie, 12 luni", "Tratament chirurgical")] %>%  
 pivot\_longer(  
 cols = starts\_with("Disurie"),  
 names\_to = "Disurie",  
 values\_to = "Value"  
)  
  
#long\_data