Comparaison des accouchements

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# Mémoire de fin d'étude

« Existe-t-il une différence de prise en charge du travail et de l'accouchement des femmes à bas risque obstétrical, entre une maternité de niveau I et une maternité de niveau III ? »

étude quantitative rétrospective

# Saisie et correction des données

Les données sont saisies dans un classeur excel comprenant 3 onglets:

* données du CH Thann (niveau III)
* données du CH Mulhouse (niveau I)
* dictionnaire des termes

## Modifications apportées

* ajout d'une colonne **mat** pour caractériser l'origine des données: mat = {"THAN", "MULH"}.
* la feuille Mulhouse comporte une colonne sans nom, appelée X (col.81). Remplacée par *mat*. Une donnée est perdue (reprise au bloc).
* la colonne **expect** est appelée **expec** dans la feuille Mulhouse. Correction pour harmoniser les nom..
* la première colonne **N°** est renommée **No**.

path <- "../"  
file1 <- paste0(path, "Data/tableur mémoire 6 THANN.csv")  
file2 <- paste0(path, "Data/tableur mémoire 6 MUL.csv")  
than <- read.csv2(file1)  
  
# rename col n°  
n <- names(than)  
n[1] <- "no"  
names(than) <- n  
than$mat <- "THANN"  
  
mul <- read.csv2(file2)  
# rename colonne X de mul:  
n <- names(mul)  
n[81] <- "mat"  
n[13] <- "expect"  
n[1] <- "no"  
names(mul) <- n  
mul$mat <- "MULH"  
  
  
# fusion  
acc <- rbind(than, mul)  
names(acc)

[1] "no" "nacct" "age" "taille" "poids\_at"   
 [6] "imc\_calc" "ppd" "gest" "pare" "hu\_adm"   
[11] "dil\_adm" "dil\_salle" "expect" "anta\_expec" "vvp"   
[16] "solut" "kt\_obtu" "deambu" "position\_w" "nb\_tv"   
[21] "rupt\_mb" "dil\_ram" "indic\_ram" "coul\_la\_w" "tps\_oeuf"   
[26] "po" "indic\_po" "dys\_dyn" "deb\_po" "med\_w"   
[31] "monito" "surv\_foet" "arcf\_w" "arcf\_interW" "pose\_apd"   
[36] "apd\_oui" "gest\_doul" "duree\_4" "duree\_5" "duree\_sdn"   
[41] "duree\_4\_dc" "duree\_5\_dc" "dur\_dc\_ee" "dur\_dc\_acc" "terme"   
[46] "voie\_acct" "indic\_cesa" "position\_a" "mode\_acct" "instru"   
[51] "indic\_inst" "present" "arcf\_expul" "arcf\_interE" "coul\_la\_ac"   
[56] "duree\_ee" "perinee" "mode\_deliv" "deliv\_comp" "dur\_acc\_de"   
[61] "ru" "ru\_oui" "pertes\_sg" "hdd" "pdn\_nne"   
[66] "sexe\_nne" "sa\_1" "sa\_5" "sa\_10" "ph\_cordon"   
[71] "rea\_nne" "aspi\_nne" "indic\_aspi" "instil" "alim"   
[76] "evt\_acc" "evt\_h12" "evt\_h12\_de" "interv\_med" "sortie"   
[81] "mat"

str(acc)

'data.frame': 96 obs. of 81 variables:  
 $ no : int 1 2 3 4 5 6 7 8 9 10 ...  
 $ nacct : int 350 351 352 353 354 360 361 406 302 304 ...  
 $ age : int 31 28 25 28 34 25 22 22 35 32 ...  
 $ taille : int 170 176 170 158 169 159 163 178 142 164 ...  
 $ poids\_at : int 62 60 67 62 63 76 58 85 46 89 ...  
 $ imc\_calc : num 21.4 19.4 23.2 24.8 22.1 ...  
 $ ppd : int 10 8 13 18 14 16 NA NA 10 2 ...  
 $ gest : int 3 3 2 2 3 2 3 1 3 4 ...  
 $ pare : int 2 0 1 1 1 0 1 0 2 2 ...  
 $ hu\_adm : int 33 29 34 35 33 34 NA 33 32 32 ...  
 $ dil\_adm : Factor w/ 10 levels "1.5","10","2",..: 7 1 5 4 4 5 9 3 9 9 ...  
 $ dil\_salle : int 6 3 6 8 4 4 8 5 8 8 ...  
 $ expect : Factor w/ 3 levels "non","oui","non ": 1 2 2 2 2 1 1 2 1 1 ...  
 $ anta\_expec : Factor w/ 13 levels "aucun","co","homeo",..: NA 3 1 1 1 NA NA 5 NA NA ...  
 $ vvp : Factor w/ 2 levels "oui","non": 1 1 1 1 1 1 1 1 1 1 ...  
 $ solut : Factor w/ 1 level "oui": 1 1 1 1 1 1 1 1 1 1 ...  
 $ kt\_obtu : Factor w/ 2 levels "non","oui": 1 1 1 1 2 1 1 1 1 1 ...  
 $ deambu : Factor w/ 2 levels "non","oui": 1 NA NA NA NA 1 NA NA NA NA ...  
 $ position\_w : Factor w/ 3 levels "non","on","oui": 1 3 3 2 1 3 1 1 1 1 ...  
 $ nb\_tv : int 4 7 4 2 3 5 2 9 2 2 ...  
 $ rupt\_mb : Factor w/ 4 levels "RAM","RSMA","RSMW",..: 1 1 1 3 3 3 3 2 3 1 ...  
 $ dil\_ram : int 8 3 8 NA NA NA NA NA NA 9 ...  
 $ indic\_ram : Factor w/ 2 levels "non","oui": 1 1 1 NA NA NA NA NA NA 1 ...  
 $ coul\_la\_w : Factor w/ 3 levels "LAC","LAT","LAM": 1 1 1 1 1 1 1 1 1 1 ...  
 $ tps\_oeuf : int 45 430 30 200 90 75 60 900 180 16 ...  
 $ po : Factor w/ 2 levels "non","oui": 1 2 1 1 1 1 1 2 1 1 ...  
 $ indic\_po : Factor w/ 2 levels "non","oui": NA 2 NA NA NA NA NA 2 NA NA ...  
 $ dys\_dyn : Factor w/ 2 levels "oui","non": NA 1 NA NA NA NA NA 1 NA NA ...  
 $ deb\_po : int NA 36 NA NA NA NA NA 78 NA NA ...  
 $ med\_w : Factor w/ 18 levels "","clamoxyl",..: 10 8 NA NA NA NA NA 11 NA NA ...  
 $ monito : Factor w/ 2 levels "continu","discontinu": 1 1 1 1 1 1 1 1 1 1 ...  
 $ surv\_foet : Factor w/ 1 level "non": 1 1 1 1 1 1 1 1 1 1 ...  
 $ arcf\_w : Factor w/ 2 levels "non","oui": 1 2 1 2 1 1 1 1 1 1 ...  
 $ arcf\_interW: Factor w/ 2 levels "non","oui": NA 1 NA 1 NA NA NA NA NA NA ...  
 $ pose\_apd : Factor w/ 2 levels "non","oui": 1 2 2 1 1 1 1 2 1 1 ...  
 $ apd\_oui : int NA 3 6 NA NA NA NA 5 NA NA ...  
 $ gest\_doul : Factor w/ 13 levels "Acupuncture , ballon, bouillote",..: NA 1 NA NA NA NA NA NA NA NA ...  
 $ duree\_4 : int NA 780 NA NA 50 NA NA 165 NA NA ...  
 $ duree\_5 : int NA NA NA NA NA NA NA 270 NA NA ...  
 $ duree\_sdn : int 72 480 220 25 40 190 24 690 40 25 ...  
 $ duree\_4\_dc : int NA 120 NA NA 114 150 NA NA NA NA ...  
 $ duree\_5\_dc : int NA 90 300 NA NA NA NA NA NA NA ...  
 $ dur\_dc\_ee : int NA NA 6 NA NA 5 NA NA 2 NA ...  
 $ dur\_dc\_acc : int NA 40 10 10 8 40 8 NA 5 9 ...  
 $ terme : int 40 41 41 40 40 39 41 40 39 40 ...  
 $ voie\_acct : Factor w/ 2 levels "cesar","VB": 2 2 2 2 2 2 2 1 2 2 ...  
 $ indic\_cesa : Factor w/ 5 levels "Stag + hyperT",..: NA NA NA NA NA NA NA 1 NA NA ...  
 $ position\_a : Factor w/ 3 levels "DD","DL + DD",..: 3 1 NA NA NA NA NA NA NA 3 ...  
 $ mode\_acct : Factor w/ 2 levels "VBS","VBI": 1 1 1 1 1 1 1 NA 1 1 ...  
 $ instru : chr NA NA NA NA ...  
 $ indic\_inst : chr NA NA NA NA ...  
 $ present : Factor w/ 2 levels "OP","OS": 1 1 1 1 1 1 1 NA 1 1 ...  
 $ arcf\_expul : Factor w/ 2 levels "non","oui": 1 1 1 1 1 1 1 NA 1 1 ...  
 $ arcf\_interE: Factor w/ 2 levels "non","oui": NA NA NA NA NA NA NA NA NA NA ...  
 $ coul\_la\_ac : Factor w/ 3 levels "LAC","LAT","LAM": 1 1 1 1 1 1 1 1 1 1 ...  
 $ duree\_ee : int 7 NA 4 NA NA 35 NA NA 3 NA ...  
 $ perinee : Factor w/ 12 levels "deux","e + un",..: 3 3 4 5 5 5 4 NA 4 4 ...  
 $ mode\_deliv : Factor w/ 3 levels "DA","DD","DN": 2 2 2 2 2 2 2 1 2 2 ...  
 $ deliv\_comp : Factor w/ 2 levels "comp","incomp": 1 1 1 1 1 1 1 NA 1 1 ...  
 $ dur\_acc\_de : int 3 12 5 10 3 25 NA NA 6 1 ...  
 $ ru : Factor w/ 2 levels "non","oui": 1 2 1 1 1 1 1 2 1 1 ...  
 $ ru\_oui : Factor w/ 6 levels "cesar","mb","DA",..: NA 2 NA NA NA NA NA 1 NA NA ...  
 $ pertes\_sg : Factor w/ 2 levels "<500","500-1000": 1 1 1 1 1 1 1 1 1 1 ...  
 $ hdd : Factor w/ 2 levels "non","oui": 1 1 1 1 1 1 1 1 1 1 ...  
 $ pdn\_nne : int 3300 3390 3430 3470 3060 3310 4090 3580 2970 3610 ...  
 $ sexe\_nne : Factor w/ 2 levels "fem","masc": 2 1 1 1 1 2 2 2 2 2 ...  
 $ sa\_1 : int 10 10 10 10 10 9 8 10 10 10 ...  
 $ sa\_5 : int 10 10 10 10 10 10 10 10 10 10 ...  
 $ sa\_10 : int 10 10 10 10 10 10 10 10 10 10 ...  
 $ ph\_cordon : num 7.22 NA 7.34 7.26 7.38 7.23 7.44 7.32 7.32 7.38 ...  
 $ rea\_nne : Factor w/ 1 level "non": 1 1 1 1 1 1 1 1 1 1 ...  
 $ aspi\_nne : Factor w/ 2 levels "non","oui": 2 1 1 1 1 1 2 2 1 1 ...  
 $ indic\_aspi : Factor w/ 2 levels "non","oui": 1 NA NA NA NA NA 2 1 NA NA ...  
 $ instil : Factor w/ 2 levels "non","oui": 1 2 2 2 2 2 1 1 2 1 ...  
 $ alim : Factor w/ 3 levels "LA","LM","TTB": 1 1 2 2 2 2 1 2 2 1 ...  
 $ evt\_acc : Factor w/ 15 levels "circulaire serrÃ©e sectionnÃ©e Ã  la vulve",..: 3 5 5 5 5 1 5 6 5 5 ...  
 $ evt\_h12 : Factor w/ 2 levels "non","oui": 2 2 1 2 1 2 2 1 1 1 ...  
 $ evt\_h12\_de : Factor w/ 28 levels "BB = Aspiration + nÃ©opuff + O2 Ã  5L â†’ bonne rÃ©cup",..: 4 11 NA 2 NA 11 7 NA NA NA ...  
 $ interv\_med : Factor w/ 8 levels "anesth ","anesth, GO",..: NA NA NA NA NA NA NA 2 NA NA ...  
 $ sortie : int 4 4 4 5 4 4 4 7 4 4 ...  
 $ mat : chr "THANN" "THANN" "THANN" "THANN" ...

# facteurs  
acc$mat <- as.factor(acc$mat)

## Ages des parturientes

Min. 1st Qu. Median Mean 3rd Qu. Max.   
 18.00 25.00 28.00 28.17 32.00 35.00

Existe t-il une différence d'age entre les 2 maternités ?

Welch Two Sample t-test  
  
data: age by mat  
t = -0.6283, df = 92.376, p-value = 0.5313  
alternative hypothesis: true difference in means is not equal to 0  
95 percent confidence interval:  
 -2.385910 1.239057  
sample estimates:  
 mean in group MULH mean in group THANN   
 27.90385 28.47727

