Analysis of HB CE probabilistic model

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Comparison between base case and two scenarios in terms of Net monetary benefit

|  | Base Case | Scenario 1: Random death | Scenario 2: No treatment failure |
| --- | --- | --- | --- |
| Optimal treament | -1392709 | -1222067 | -1365318 |
| ITR recursive partitioning | -1448848 | -1462515 | -1387446 |
| Difference | 56138 | 240448 | 22128 |

# System information

Sys.info()

sysname release version nodename machine login user   
 "Windows" "10 x64" "build 19045" "M04486" "x86-64" "min1" "min1"

effective\_user “min1”

sessionInfo(package = NULL)

R version 4.3.1 (2023-06-16 ucrt) Platform: x86\_64-w64-mingw32/x64 (64-bit) Running under: Windows 10 x64 (build 19045)

Matrix products: default

locale: [1] LC\_COLLATE=German\_Switzerland.utf8 LC\_CTYPE=German\_Switzerland.utf8  
[3] LC\_MONETARY=German\_Switzerland.utf8 LC\_NUMERIC=C  
[5] LC\_TIME=German\_Switzerland.utf8

time zone: Europe/Zurich tzcode source: internal

attached base packages: [1] stats graphics grDevices utils datasets methods base

other attached packages: [1] MASS\_7.3-60 dplyr\_1.1.2 scales\_1.3.0 flextable\_0.9.3 broom\_1.0.5  
[6] DiagrammeRsvg\_0.1 fastDummies\_1.7.3 glmnet\_4.1-8 Matrix\_1.6-0 rattle\_5.5.1  
[11] bitops\_1.0-7 tibble\_3.2.1 rpart.plot\_3.1.2 rpart\_4.1.19 policytree\_1.2.2  
[16] grf\_2.3.2 mgcv\_1.8-42 nlme\_3.1-162 kableExtra\_1.3.4 rmarkdown\_2.23  
[21] ggrepel\_0.9.3 plyr\_1.8.8 ggpubr\_0.6.0 truncnorm\_1.0-9 lookup\_1.0  
[26] data.table\_1.14.8 pander\_0.6.5 RColorBrewer\_1.1-3 ggplot2\_3.5.1

loaded via a namespace (and not attached): [1] rlang\_1.1.1 magrittr\_2.0.3 compiler\_4.3.1 systemfonts\_1.0.4  
[5] vctrs\_0.6.3 rvest\_1.0.3 stringr\_1.5.1 httpcode\_0.3.0  
[9] pkgconfig\_2.0.3 shape\_1.4.6.1 crayon\_1.5.2 fastmap\_1.1.1  
[13] backports\_1.4.1 ellipsis\_0.3.2 utf8\_1.2.3 promises\_1.2.0.1  
[17] ragg\_1.2.5 purrr\_1.0.1 xfun\_0.39 jsonlite\_1.8.7  
[21] later\_1.3.1 uuid\_1.1-0 R6\_2.5.1 stringi\_1.8.3  
[25] car\_3.1-2 Rcpp\_1.0.11 iterators\_1.0.14 knitr\_1.43  
[29] httpuv\_1.6.11 splines\_4.3.1 tidyselect\_1.2.1 rstudioapi\_0.15.0  
[33] abind\_1.4-5 yaml\_2.3.7 codetools\_0.2-19 curl\_5.0.1  
[37] lattice\_0.21-8 shiny\_1.7.4.1 withr\_3.0.0 askpass\_1.1  
[41] evaluate\_0.21 survival\_3.5-5 zip\_2.3.0 xml2\_1.3.5  
[45] pillar\_1.9.0 carData\_3.0-5 foreach\_1.5.2 generics\_0.1.3  
[49] munsell\_0.5.1 xtable\_1.8-4 glue\_1.6.2 gdtools\_0.3.3  
[53] tools\_4.3.1 gfonts\_0.2.0 webshot\_0.5.5 ggsignif\_0.6.4  
[57] grid\_4.3.1 tidyr\_1.3.0 colorspace\_2.1-0 cli\_3.6.1  
[61] textshaping\_0.3.6 officer\_0.6.2 rsvg\_2.6.1 fontBitstreamVera\_0.1.1 [65] fansi\_1.0.4 viridisLite\_0.4.2 svglite\_2.1.2 V8\_6.0.0  
[69] gtable\_0.3.5 rstatix\_0.7.2 digest\_0.6.33 fontquiver\_0.2.1  
[73] crul\_1.4.0 htmltools\_0.5.5 lifecycle\_1.0.4 httr\_1.4.6  
[77] mime\_0.12 fontLiberation\_0.1.0 openssl\_2.0.6