summarise\_ce\_mimic

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# P = 20

### setwd  
rm(list=ls())  
setwd("/mnt/bmh01-rds/mrc-multi-outcome/Project\_8.2")  
  
### Load workspace  
load("data/ce\_mimic\_P20.RData")  
print(paste("FINISHED", Sys.time()))

## [1] "FINISHED 2025-01-24 14:46:42.573682"

differences <- lapply(data.output, function(x) {  
 diffs <- x$S.boot - x$S.VH  
 qtls <- round(quantile(diffs, p = c(0.025, 0.25, 0.5, 0.75, 0.975), na.rm = TRUE), 3)  
 return(qtls)})  
knitr::kable(t(differences[[1]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.581 | -0.358 | -0.21 | 0 | 0.424 |

knitr::kable(t(differences[[2]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.114 | -0.011 | 0.044 | 0.126 | 0.369 |

knitr::kable(t(differences[[3]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.04 | 0 | 0.026 | 0.068 | 0.167 |

knitr::kable(t(differences[[4]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.026 | -0.001 | 0.011 | 0.026 | 0.07 |

knitr::kable(t(differences[[5]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.018 | -0.006 | 0.001 | 0.007 | 0.018 |

knitr::kable(t(differences[[6]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.012 | -0.006 | -0.003 | 0 | 0.007 |

knitr::kable(t(differences[[7]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.007 | -0.004 | -0.001 | 0 | 0.004 |

### Show there is just one NA being removed from the N = 100 scenario  
n\_miss <- lapply(data.output, function(x) {  
 diffs <- x$S.VH - x$S.boot  
 n\_miss <- sum(is.na(diffs))  
 return(n\_miss)})  
n\_miss

## $`100`  
## [1] 1  
##   
## $`250`  
## [1] 0  
##   
## $`500`  
## [1] 0  
##   
## $`1000`  
## [1] 0  
##   
## $`2000`  
## [1] 0  
##   
## $`5000`  
## [1] 0  
##   
## $`10000`  
## [1] 0

knitr::kable(t(round(data.output.means[[1]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.278 | 0.11 | 0.268 | 0.846 |

knitr::kable(t(round(data.output.means[[2]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.435 | 0.5 | 0.148 | 0.783 |

knitr::kable(t(round(data.output.means[[3]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.627 | 0.664 | 0.112 | 0.747 |

knitr::kable(t(round(data.output.means[[4]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.769 | 0.784 | 0.091 | 0.724 |

knitr::kable(t(round(data.output.means[[5]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.873 | 0.874 | 0.081 | 0.714 |

knitr::kable(t(round(data.output.means[[6]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.945 | 0.943 | 0.074 | 0.706 |

knitr::kable(t(round(data.output.means[[7]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.972 | 0.971 | 0.073 | 0.704 |

# P = 10

##setwd  
rm(list=ls())  
setwd("/mnt/bmh01-rds/mrc-multi-outcome/Project\_8.2")  
#  
##Load workspace  
load("data/ce\_mimic\_P10.RData")  
print(paste("FINISHED", Sys.time()))

## [1] "FINISHED 2025-01-24 14:46:43.051378"

#  
differences <- lapply(data.output, function(x) {  
 diffs <- x$S.boot - x$S.VH  
 qtls <- round(quantile(diffs, p = c(0.025, 0.25, 0.5, 0.75, 0.975), na.rm = TRUE), 3)  
 return(qtls)})  
knitr::kable(t(differences[[1]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.242 | -0.048 | 0.095 | 0.271 | 1.068 |

knitr::kable(t(differences[[2]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.025 | 0.043 | 0.098 | 0.171 | 0.461 |

knitr::kable(t(differences[[3]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.001 | 0.027 | 0.05 | 0.078 | 0.172 |

knitr::kable(t(differences[[4]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| 0.001 | 0.016 | 0.025 | 0.037 | 0.071 |

knitr::kable(t(differences[[5]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.003 | 0.006 | 0.012 | 0.017 | 0.027 |

knitr::kable(t(differences[[6]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.004 | 0.001 | 0.004 | 0.007 | 0.013 |

knitr::kable(t(differences[[7]]))

| 2.5% | 25% | 50% | 75% | 97.5% |
| --- | --- | --- | --- | --- |
| -0.004 | 0 | 0.002 | 0.004 | 0.008 |

#  
##Show there is just one NA being removed from the N = 100 scenario  
n\_miss <- lapply(data.output, function(x) {  
 diffs <- x$S.VH - x$S.boot  
 n\_miss <- sum(is.na(diffs))  
 return(n\_miss)})  
n\_miss

## $`100`  
## [1] 1  
##   
## $`250`  
## [1] 0  
##   
## $`500`  
## [1] 0  
##   
## $`1000`  
## [1] 0  
##   
## $`2000`  
## [1] 0  
##   
## $`5000`  
## [1] 0  
##   
## $`10000`  
## [1] 0

knitr::kable(t(round(data.output.means[[1]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.268 | 0.426 | 0.165 | 0.793 |

knitr::kable(t(round(data.output.means[[2]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.534 | 0.657 | 0.101 | 0.736 |

knitr::kable(t(round(data.output.means[[3]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.728 | 0.787 | 0.084 | 0.717 |

knitr::kable(t(round(data.output.means[[4]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.847 | 0.875 | 0.073 | 0.704 |

knitr::kable(t(round(data.output.means[[5]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.92 | 0.932 | 0.069 | 0.698 |

knitr::kable(t(round(data.output.means[[6]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.967 | 0.971 | 0.065 | 0.694 |

knitr::kable(t(round(data.output.means[[7]],3)))

| S.VH | S.boot | R2.CS.app | C.app |
| --- | --- | --- | --- |
| 0.983 | 0.986 | 0.065 | 0.693 |