exploring measurement vars pt 2

2022-08-05

library(tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──  
## ✔ ggplot2 3.3.6 ✔ purrr 0.3.4  
## ✔ tibble 3.1.8 ✔ dplyr 1.0.9  
## ✔ tidyr 1.2.0 ✔ stringr 1.4.0  
## ✔ readr 2.1.2 ✔ forcats 0.5.1  
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()

library(readxl)  
library(officer)

##   
## Attaching package: 'officer'  
##   
## The following object is masked from 'package:readxl':  
##   
## read\_xlsx

library(flextable)

##   
## Attaching package: 'flextable'  
##   
## The following object is masked from 'package:purrr':  
##   
## compose

library(extrafont)

## Registering fonts with R

library(corrr)  
library(ggcorrplot)  
library(writexl)

#times new roman tables  
my\_ft\_theme <- function(ft, ...) {  
 # Remove vertical cell padding  
 ft <- padding(ft, padding.top = 0, padding.bottom = 0, part = "all")  
   
 # Change font to TNR 11  
 ft <- font(ft, fontname = "Times New Roman", part = "all")  
 ft <- fontsize(ft, part = "all", size = 12)  
 ft  
}

correlation\_data\_full<-read\_excel("C:\\Users\\19177\\OneDrive - Colostate\\Desktop\\Dissertation\\headscan\_dissertation\\correlation\_data\_full.xlsx")  
  
measureNAs<-read\_excel("C:\\Users\\19177\\OneDrive - Colostate\\Desktop\\Dissertation\\headscan\_dissertation\\measureNAs.xlsx")  
  
questionable\_measures<-read\_excel("C:\\Users\\19177\\OneDrive - Colostate\\Desktop\\Dissertation\\headscan\_dissertation\\questionable\_measures.xlsx")  
  
isabel\_intra<-read\_excel("C:\\Users\\19177\\OneDrive - Colostate\\Desktop\\Dissertation\\headscan\_dissertation\\isabel\_intra.xlsx")  
  
kayna\_intra<-read\_excel("C:\\Users\\19177\\OneDrive - Colostate\\Desktop\\Dissertation\\headscan\_dissertation\\kayna\_intra.xlsx")  
  
chandler\_intra<-read\_excel("C:\\Users\\19177\\OneDrive - Colostate\\Desktop\\Dissertation\\headscan\_dissertation\\chandler\_intra.xlsx")  
  
jared\_intra<-read\_excel("C:\\Users\\19177\\OneDrive - Colostate\\Desktop\\Dissertation\\headscan\_dissertation\\jared\_intra.xlsx")  
  
interRR<-read\_excel("C:\\Users\\19177\\OneDrive - Colostate\\Desktop\\Dissertation\\headscan\_dissertation\\interRR.xlsx")

measureNAs<-measureNAs[-3]  
  
correlation\_data\_full <- correlation\_data\_full %>%   
 rename(measure\_name = "term")  
  
isabel\_intra <- isabel\_intra %>%   
 rename(measure\_name = "measure",  
 coderA\_intra\_icc = "icc\_value")  
  
isabel\_intra<-isabel\_intra[-1]  
  
  
kayna\_intra <- kayna\_intra %>%   
 rename(measure\_name = "measure",  
 coderB\_intra\_icc = "icc\_value")  
  
kayna\_intra<-kayna\_intra[-1]  
  
  
chandler\_intra <- chandler\_intra %>%   
 rename(measure\_name = "measure",  
 coderC\_intra\_icc = "icc\_value")  
  
chandler\_intra<-chandler\_intra[-1]  
  
  
jared\_intra <- jared\_intra %>%   
 rename(measure\_name = "measure",  
 coderD\_intra\_icc = "icc\_value")  
  
jared\_intra<-jared\_intra[-1]  
  
  
interRR <- interRR %>%   
 rename(measure\_name = "measure")

cor\_icc\_nas <- full\_join(correlation\_data\_full, measureNAs, by = "measure\_name")  
cor\_icc\_nas <- full\_join(cor\_icc\_nas, isabel\_intra, by = "measure\_name")  
cor\_icc\_nas <- full\_join(cor\_icc\_nas, kayna\_intra, by = "measure\_name")  
cor\_icc\_nas <- full\_join(cor\_icc\_nas, chandler\_intra, by = "measure\_name")  
cor\_icc\_nas <- full\_join(cor\_icc\_nas, jared\_intra, by = "measure\_name")  
cor\_icc\_nas <- full\_join(cor\_icc\_nas, interRR, by = "measure\_name")

cor\_icc\_nas <- cor\_icc\_nas %>%   
 rename(cor\_AA\_C = "AA\_C",  
 cor\_BGl\_C = "BGl\_C",  
 cor\_BiW\_L = "BiW\_L",  
 cor\_BiW\_C = "BiW\_C",  
 cor\_ChCh\_C = "ChCh\_C",  
 cor\_GoSub\_C = "GoSub\_C",  
 cor\_NRB\_L = "NRB\_L",  
 cor\_ProA\_L = "ProA\_L",  
 cor\_ProA\_C = "ProA\_C",  
 cor\_ProS\_L = "ProS\_L",  
 cor\_ProS\_C = "ProS\_C",  
 cor\_SelP\_L = "SelP\_L",  
 cor\_SelP\_C = "SelP\_C",  
 cor\_SelDH\_C = "SelDH\_C",  
 cor\_SelM\_L = "SelM\_L",  
 cor\_SnasM\_L = "SnasM\_L",  
 cor\_SnasM\_C = "SnasM\_C",  
 cor\_SmanM\_L = "SmanM\_L",  
 cor\_SmanM\_C = "SmanM\_C",  
 cor\_TrHO\_C = "TrHO\_C",  
 cor\_TrEJ\_C = "TrEJ\_C",  
 cor\_TrGo\_C = "TrGo\_C",  
 cor\_TrSel\_C = "TrSel\_C",  
 cor\_TrSman\_C = "TrSman\_C",  
 cor\_TrSnas\_C = "TrSnas\_C",  
 cor\_TrTr\_C = "TrTr\_C",  
 cor\_TrTr\_L = "TrTr\_L")

cor\_icc\_nas <- cor\_icc\_nas %>% mutate(across(where(is.numeric), round, digits=4))

#Size 12 Table TNR  
flextable(cor\_icc\_nas) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("Values for each Measurement Location") #%>%

**Table 1**: Values for each Measurement Location

| **measure\_name** | **cor\_AA\_C** | **cor\_BGl\_C** | **cor\_BiW\_C** | **cor\_BiW\_L** | **cor\_ChCh\_C** | **cor\_GoSub\_C** | **cor\_NRB\_L** | **cor\_ProA\_L** | **cor\_ProA\_C** | **cor\_ProS\_C** | **cor\_ProS\_L** | **cor\_SelP\_C** | **cor\_SelP\_L** | **cor\_SelDH\_C** | **cor\_SelM\_L** | **cor\_SnasM\_C** | **cor\_SmanM\_C** | **cor\_SmanM\_L** | **cor\_SnasM\_L** | **cor\_TrHO\_C** | **cor\_TrEJ\_C** | **cor\_TrGo\_C** | **cor\_TrSel\_C** | **cor\_TrSman\_C** | **cor\_TrSnas\_C** | **cor\_TrTr\_C** | **cor\_TrTr\_L** | **measureNAprops** | **coderA\_intra\_icc** | **coderB\_intra\_icc** | **coderC\_intra\_icc** | **coderD\_intra\_icc** | **inter\_icc** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AA\_C |  | 0.2505 | 0.1560 | 0.0363 | 0.3353 | 0.3369 | -0.0276 | 0.8962 | 0.8869 | 0.4921 | 0.4802 | 0.4215 | 0.4135 | 0.0598 | 0.2277 | 0.0396 | 0.2214 | 0.2042 | 0.0237 | 0.2973 | 0.1861 | 0.1878 | 0.4138 | 0.4148 | 0.4440 | 0.4396 | 0.4633 | 0.0084 | 0.987 | 0.974 | 0.974 | 0.969 | 0.952 |
| BGl\_C | 0.2505 |  | 0.2220 | 0.2590 | 0.3032 | 0.3643 | 0.0444 | 0.2551 | 0.2355 | 0.1418 | 0.1377 | 0.1203 | 0.1213 | 0.0823 | 0.3011 | 0.2568 | 0.1706 | 0.1970 | 0.2326 | 0.3105 | 0.0427 | 0.0752 | 0.4504 | 0.3987 | 0.4464 | 0.4921 | 0.4450 | 0.2579 | 0.960 | 0.974 | 0.856 | 0.947 | 0.043 |
| BiW\_C | 0.1560 | 0.2220 |  | 0.8934 | 0.1101 | 0.0818 | 0.1967 | 0.2258 | 0.1696 | -0.0199 | -0.0566 | 0.2953 | 0.2902 | 0.2934 | 0.5461 | 0.5442 | -0.1241 | -0.0744 | 0.5423 | -0.0949 | 0.2737 | 0.3999 | 0.4535 | 0.3312 | 0.4201 | 0.4662 | 0.4157 | 0.0084 | 0.917 | 0.944 | 0.849 | 0.962 | 0.538 |
| BiW\_L | 0.0363 | 0.2590 | 0.8934 |  | 0.1442 | 0.1385 | 0.2855 | 0.1164 | 0.0513 | -0.1170 | -0.1641 | 0.1278 | 0.1247 | 0.2225 | 0.5087 | 0.6019 | -0.0919 | -0.0321 | 0.5602 | -0.1117 | 0.2266 | 0.3457 | 0.5123 | 0.3750 | 0.5009 | 0.5168 | 0.4570 | 0.0084 | 0.924 | 0.915 | 0.692 | 0.926 | 0.689 |
| ChCh\_C | 0.3353 | 0.3032 | 0.1101 | 0.1442 |  | 0.3502 | -0.0346 | 0.3309 | 0.3083 | 0.1756 | 0.1337 | 0.0930 | 0.0891 | 0.0653 | 0.2123 | 0.1756 | 0.3054 | 0.3264 | 0.1441 | 0.1574 | 0.0126 | 0.0745 | 0.3827 | 0.3660 | 0.4340 | 0.4022 | 0.3258 | 0.0213 | 0.984 | 0.968 | 0.924 | 0.949 | 0.966 |
| GoSub\_C | 0.3369 | 0.3643 | 0.0818 | 0.1385 | 0.3502 |  | 0.0284 | 0.2991 | 0.2808 | 0.2840 | 0.2777 | 0.0744 | 0.0701 | 0.0123 | 0.2446 | 0.1366 | 0.1528 | 0.1980 | 0.1462 | 0.1801 | 0.0133 | -0.2364 | 0.4698 | 0.8045 | 0.5454 | 0.4999 | 0.5297 | 0.0630 | 0.937 | 0.950 | 0.919 | 0.944 | 0.923 |
| NRB\_L | -0.0276 | 0.0444 | 0.1967 | 0.2855 | -0.0346 | 0.0284 |  | -0.0234 | -0.0806 | -0.1234 | -0.1194 | -0.0743 | -0.0729 | 0.0139 | 0.2774 | 0.3628 | -0.1686 | -0.1293 | 0.3516 | -0.2263 | 0.0575 | 0.0467 | 0.1649 | 0.1501 | 0.2108 | 0.1574 | 0.0834 | 0.0074 | 0.830 | 0.757 | 0.384 | 0.915 | 0.245 |
| ProA\_L | 0.8962 | 0.2551 | 0.2258 | 0.1164 | 0.3309 | 0.2991 | -0.0234 |  | 0.9712 | 0.4379 | 0.4193 | 0.4311 | 0.4222 | 0.0933 | 0.2568 | 0.0929 | 0.1908 | 0.1740 | 0.0722 | 0.2774 | 0.2124 | 0.2332 | 0.4204 | 0.3995 | 0.4549 | 0.4403 | 0.4610 | 0.0079 | 0.986 | 0.974 | 0.961 | 0.982 | 0.950 |
| ProA\_C | 0.8869 | 0.2355 | 0.1696 | 0.0513 | 0.3083 | 0.2808 | -0.0806 | 0.9712 |  | 0.4551 | 0.4372 | 0.4156 | 0.4077 | 0.0709 | 0.2007 | 0.0230 | 0.2119 | 0.1839 | 0.0095 | 0.2944 | 0.1901 | 0.2175 | 0.3719 | 0.3640 | 0.4036 | 0.3911 | 0.4251 | 0.0079 | 0.975 | 0.960 | 0.945 | 0.964 | 0.931 |
| ProS\_C | 0.4921 | 0.1418 | -0.0199 | -0.1170 | 0.1756 | 0.2840 | -0.1234 | 0.4379 | 0.4551 |  | 0.8963 | 0.1866 | 0.1927 | 0.0637 | 0.0997 | -0.0476 | 0.1485 | 0.1419 | -0.0609 | 0.2184 | 0.1145 | 0.0144 | 0.1355 | 0.2625 | 0.1427 | 0.1650 | 0.2129 | 0.0154 | 0.969 | 0.941 | 0.686 | 0.967 | 0.850 |
| ProS\_L | 0.4802 | 0.1377 | -0.0566 | -0.1641 | 0.1337 | 0.2777 | -0.1194 | 0.4193 | 0.4372 | 0.8963 |  | 0.1814 | 0.1873 | 0.0619 | 0.1042 | -0.0798 | 0.1192 | 0.1107 | -0.0497 | 0.2223 | 0.1169 | -0.0057 | 0.1059 | 0.2397 | 0.0948 | 0.1418 | 0.1846 | 0.0094 | 0.961 | 0.931 | 0.955 | 0.975 | 0.938 |
| SelP\_C | 0.4215 | 0.1203 | 0.2953 | 0.1278 | 0.0930 | 0.0744 | -0.0743 | 0.4311 | 0.4156 | 0.1866 | 0.1814 |  | 0.9931 | 0.5561 | 0.4982 | 0.1172 | -0.0344 | -0.0350 | 0.1503 | 0.0917 | 0.2309 | 0.2231 | 0.2389 | 0.2094 | 0.2171 | 0.2634 | 0.2562 | 0.0074 | 0.991 | 0.977 | 0.962 | 0.992 | 0.850 |
| SelP\_L | 0.4135 | 0.1213 | 0.2902 | 0.1247 | 0.0891 | 0.0701 | -0.0729 | 0.4222 | 0.4077 | 0.1927 | 0.1873 | 0.9931 |  | 0.5650 | 0.5074 | 0.1173 | -0.0417 | -0.0402 | 0.1537 | 0.0880 | 0.2314 | 0.2213 | 0.2344 | 0.2052 | 0.2096 | 0.2596 | 0.2473 | 0.0074 | 0.991 | 0.978 | 0.970 | 0.992 | 0.968 |
| SelDH\_C | 0.0598 | 0.0823 | 0.2934 | 0.2225 | 0.0653 | 0.0123 | 0.0139 | 0.0933 | 0.0709 | 0.0637 | 0.0619 | 0.5561 | 0.5650 |  | 0.4378 | 0.2415 | -0.1526 | -0.1057 | 0.2680 | -0.1004 | 0.1133 | 0.0488 | 0.0838 | 0.0808 | 0.0551 | 0.1097 | 0.0706 | 0.0069 | 0.926 | 0.920 | 0.503 | 0.943 | 0.825 |
| SelM\_L | 0.2277 | 0.3011 | 0.5461 | 0.5087 | 0.2123 | 0.2446 | 0.2774 | 0.2568 | 0.2007 | 0.0997 | 0.1042 | 0.4982 | 0.5074 | 0.4378 |  | 0.8082 | -0.1015 | -0.0362 | 0.8641 | -0.0887 | 0.1973 | 0.2221 | 0.4027 | 0.4346 | 0.3867 | 0.4369 | 0.3724 | 0.1111 | 0.995 | 0.969 | 0.977 | 0.997 | 0.873 |
| SnasM\_C | 0.0396 | 0.2568 | 0.5442 | 0.6019 | 0.1756 | 0.1366 | 0.3628 | 0.0929 | 0.0230 | -0.0476 | -0.0798 | 0.1172 | 0.1173 | 0.2415 | 0.8082 |  | -0.1730 | -0.1060 | 0.9453 | -0.1807 | 0.1128 | 0.1713 | 0.3083 | 0.3023 | 0.3287 | 0.3255 | 0.2535 | 0.1171 | 0.980 | 0.921 | 0.963 | 0.989 | 0.809 |
| SmanM\_C | 0.2214 | 0.1706 | -0.1241 | -0.0919 | 0.3054 | 0.1528 | -0.1686 | 0.1908 | 0.2119 | 0.1485 | 0.1192 | -0.0344 | -0.0417 | -0.1526 | -0.1015 | -0.1730 |  | 0.9613 | -0.1695 | 0.3184 | -0.0788 | 0.0939 | 0.2546 | 0.1820 | 0.3022 | 0.2708 | 0.2541 | 0.1394 | 0.457 | 0.740 | 0.885 | 0.970 | 0.329 |
| SmanM\_L | 0.2042 | 0.1970 | -0.0744 | -0.0321 | 0.3264 | 0.1980 | -0.1293 | 0.1740 | 0.1839 | 0.1419 | 0.1107 | -0.0350 | -0.0402 | -0.1057 | -0.0362 | -0.1060 | 0.9613 |  | -0.0978 | 0.2673 | -0.0929 | 0.0675 | 0.2811 | 0.2294 | 0.3353 | 0.3014 | 0.2816 | 0.1200 | 0.522 | 0.692 | 0.879 | 0.964 | 0.299 |
| SnasM\_L | 0.0237 | 0.2326 | 0.5423 | 0.5602 | 0.1441 | 0.1462 | 0.3516 | 0.0722 | 0.0095 | -0.0609 | -0.0497 | 0.1503 | 0.1537 | 0.2680 | 0.8641 | 0.9453 | -0.1695 | -0.0978 |  | -0.2198 | 0.1262 | 0.1654 | 0.2919 | 0.3134 | 0.2963 | 0.3105 | 0.2348 | 0.1116 | 0.954 | 0.849 | 0.899 | 0.986 | 0.521 |
| TrHO\_C | 0.2973 | 0.3105 | -0.0949 | -0.1117 | 0.1574 | 0.1801 | -0.2263 | 0.2774 | 0.2944 | 0.2184 | 0.2223 | 0.0917 | 0.0880 | -0.1004 | -0.0887 | -0.1807 | 0.3184 | 0.2673 | -0.2198 |  | 0.0009 | 0.0168 | 0.2811 | 0.1145 | 0.2078 | 0.3105 | 0.2930 | 0.1399 | 0.981 | 0.970 | 0.857 | 0.964 | 0.871 |
| TrEJ\_C | 0.1861 | 0.0427 | 0.2737 | 0.2266 | 0.0126 | 0.0133 | 0.0575 | 0.2124 | 0.1901 | 0.1145 | 0.1169 | 0.2309 | 0.2314 | 0.1133 | 0.1973 | 0.1128 | -0.0788 | -0.0929 | 0.1262 | 0.0009 |  | 0.3635 | 0.2132 | 0.2050 | 0.2226 | 0.2105 | 0.2029 | 0.0164 | 0.979 | 0.935 | 0.946 | 0.823 | 0.776 |
| TrGo\_C | 0.1878 | 0.0752 | 0.3999 | 0.3457 | 0.0745 | -0.2364 | 0.0467 | 0.2332 | 0.2175 | 0.0144 | -0.0057 | 0.2231 | 0.2213 | 0.0488 | 0.2221 | 0.1713 | 0.0939 | 0.0675 | 0.1654 | 0.0168 | 0.3635 |  | 0.3117 | 0.2732 | 0.3280 | 0.2972 | 0.3007 | 0.0397 | 0.971 | 0.969 | 0.871 | 0.777 | 0.880 |
| TrSel\_C | 0.4138 | 0.4504 | 0.4535 | 0.5123 | 0.3827 | 0.4698 | 0.1649 | 0.4204 | 0.3719 | 0.1355 | 0.1059 | 0.2389 | 0.2344 | 0.0838 | 0.4027 | 0.3083 | 0.2546 | 0.2811 | 0.2919 | 0.2811 | 0.2132 | 0.3117 |  | 0.6627 | 0.8903 | 0.9541 | 0.7115 | 0.0154 | 0.993 | 0.990 | 0.993 | 0.732 | 0.866 |
| TrSman\_C | 0.4148 | 0.3987 | 0.3312 | 0.3750 | 0.3660 | 0.8045 | 0.1501 | 0.3995 | 0.3640 | 0.2625 | 0.2397 | 0.2094 | 0.2052 | 0.0808 | 0.4346 | 0.3023 | 0.1820 | 0.2294 | 0.3134 | 0.1145 | 0.2050 | 0.2732 | 0.6627 |  | 0.7370 | 0.6803 | 0.6961 | 0.0655 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |
| TrSnas\_C | 0.4440 | 0.4464 | 0.4201 | 0.5009 | 0.4340 | 0.5454 | 0.2108 | 0.4549 | 0.4036 | 0.1427 | 0.0948 | 0.2171 | 0.2096 | 0.0551 | 0.3867 | 0.3287 | 0.3022 | 0.3353 | 0.2963 | 0.2078 | 0.2226 | 0.3280 | 0.8903 | 0.7370 |  | 0.8753 | 0.7053 | 0.0352 | 0.971 | 0.988 | 0.983 | 0.740 | 0.991 |
| TrTr\_C | 0.4396 | 0.4921 | 0.4662 | 0.5168 | 0.4022 | 0.4999 | 0.1574 | 0.4403 | 0.3911 | 0.1650 | 0.1418 | 0.2634 | 0.2596 | 0.1097 | 0.4369 | 0.3255 | 0.2708 | 0.3014 | 0.3105 | 0.3105 | 0.2105 | 0.2972 | 0.9541 | 0.6803 | 0.8753 |  | 0.7415 | 0.0188 | 0.997 | 0.989 | 0.993 | 0.932 | 0.958 |
| TrTr\_L | 0.4633 | 0.4450 | 0.4157 | 0.4570 | 0.3258 | 0.5297 | 0.0834 | 0.4610 | 0.4251 | 0.2129 | 0.1846 | 0.2562 | 0.2473 | 0.0706 | 0.3724 | 0.2535 | 0.2541 | 0.2816 | 0.2348 | 0.2930 | 0.2029 | 0.3007 | 0.7115 | 0.6961 | 0.7053 | 0.7415 |  | 0.0169 | 0.998 | 0.992 | 0.995 | 0.995 | 0.989 |

#set\_header\_labels(values = list(measure\_name = "Measurement Location",  
 #measureNAprops = "Proportion of NA values",  
 #measureNAsums = "Count of NA values"))  
  
#Autofit Width Table TNR  
flextable(cor\_icc\_nas) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("Values for each Measurement Location") %>%   
 fit\_to\_width(10)

**Table** **2**: Values for each Measurement Location

| **measure\_name** | **cor\_AA\_C** | **cor\_BGl\_C** | **cor\_BiW\_C** | **cor\_BiW\_L** | **cor\_ChCh\_C** | **cor\_GoSub\_C** | **cor\_NRB\_L** | **cor\_ProA\_L** | **cor\_ProA\_C** | **cor\_ProS\_C** | **cor\_ProS\_L** | **cor\_SelP\_C** | **cor\_SelP\_L** | **cor\_SelDH\_C** | **cor\_SelM\_L** | **cor\_SnasM\_C** | **cor\_SmanM\_C** | **cor\_SmanM\_L** | **cor\_SnasM\_L** | **cor\_TrHO\_C** | **cor\_TrEJ\_C** | **cor\_TrGo\_C** | **cor\_TrSel\_C** | **cor\_TrSman\_C** | **cor\_TrSnas\_C** | **cor\_TrTr\_C** | **cor\_TrTr\_L** | **measureNAprops** | **coderA\_intra\_icc** | **coderB\_intra\_icc** | **coderC\_intra\_icc** | **coderD\_intra\_icc** | **inter\_icc** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AA\_C |  | 0.2505 | 0.1560 | 0.0363 | 0.3353 | 0.3369 | -0.0276 | 0.8962 | 0.8869 | 0.4921 | 0.4802 | 0.4215 | 0.4135 | 0.0598 | 0.2277 | 0.0396 | 0.2214 | 0.2042 | 0.0237 | 0.2973 | 0.1861 | 0.1878 | 0.4138 | 0.4148 | 0.4440 | 0.4396 | 0.4633 | 0.0084 | 0.987 | 0.974 | 0.974 | 0.969 | 0.952 |
| BGl\_C | 0.2505 |  | 0.2220 | 0.2590 | 0.3032 | 0.3643 | 0.0444 | 0.2551 | 0.2355 | 0.1418 | 0.1377 | 0.1203 | 0.1213 | 0.0823 | 0.3011 | 0.2568 | 0.1706 | 0.1970 | 0.2326 | 0.3105 | 0.0427 | 0.0752 | 0.4504 | 0.3987 | 0.4464 | 0.4921 | 0.4450 | 0.2579 | 0.960 | 0.974 | 0.856 | 0.947 | 0.043 |
| BiW\_C | 0.1560 | 0.2220 |  | 0.8934 | 0.1101 | 0.0818 | 0.1967 | 0.2258 | 0.1696 | -0.0199 | -0.0566 | 0.2953 | 0.2902 | 0.2934 | 0.5461 | 0.5442 | -0.1241 | -0.0744 | 0.5423 | -0.0949 | 0.2737 | 0.3999 | 0.4535 | 0.3312 | 0.4201 | 0.4662 | 0.4157 | 0.0084 | 0.917 | 0.944 | 0.849 | 0.962 | 0.538 |
| BiW\_L | 0.0363 | 0.2590 | 0.8934 |  | 0.1442 | 0.1385 | 0.2855 | 0.1164 | 0.0513 | -0.1170 | -0.1641 | 0.1278 | 0.1247 | 0.2225 | 0.5087 | 0.6019 | -0.0919 | -0.0321 | 0.5602 | -0.1117 | 0.2266 | 0.3457 | 0.5123 | 0.3750 | 0.5009 | 0.5168 | 0.4570 | 0.0084 | 0.924 | 0.915 | 0.692 | 0.926 | 0.689 |
| ChCh\_C | 0.3353 | 0.3032 | 0.1101 | 0.1442 |  | 0.3502 | -0.0346 | 0.3309 | 0.3083 | 0.1756 | 0.1337 | 0.0930 | 0.0891 | 0.0653 | 0.2123 | 0.1756 | 0.3054 | 0.3264 | 0.1441 | 0.1574 | 0.0126 | 0.0745 | 0.3827 | 0.3660 | 0.4340 | 0.4022 | 0.3258 | 0.0213 | 0.984 | 0.968 | 0.924 | 0.949 | 0.966 |
| GoSub\_C | 0.3369 | 0.3643 | 0.0818 | 0.1385 | 0.3502 |  | 0.0284 | 0.2991 | 0.2808 | 0.2840 | 0.2777 | 0.0744 | 0.0701 | 0.0123 | 0.2446 | 0.1366 | 0.1528 | 0.1980 | 0.1462 | 0.1801 | 0.0133 | -0.2364 | 0.4698 | 0.8045 | 0.5454 | 0.4999 | 0.5297 | 0.0630 | 0.937 | 0.950 | 0.919 | 0.944 | 0.923 |
| NRB\_L | -0.0276 | 0.0444 | 0.1967 | 0.2855 | -0.0346 | 0.0284 |  | -0.0234 | -0.0806 | -0.1234 | -0.1194 | -0.0743 | -0.0729 | 0.0139 | 0.2774 | 0.3628 | -0.1686 | -0.1293 | 0.3516 | -0.2263 | 0.0575 | 0.0467 | 0.1649 | 0.1501 | 0.2108 | 0.1574 | 0.0834 | 0.0074 | 0.830 | 0.757 | 0.384 | 0.915 | 0.245 |
| ProA\_L | 0.8962 | 0.2551 | 0.2258 | 0.1164 | 0.3309 | 0.2991 | -0.0234 |  | 0.9712 | 0.4379 | 0.4193 | 0.4311 | 0.4222 | 0.0933 | 0.2568 | 0.0929 | 0.1908 | 0.1740 | 0.0722 | 0.2774 | 0.2124 | 0.2332 | 0.4204 | 0.3995 | 0.4549 | 0.4403 | 0.4610 | 0.0079 | 0.986 | 0.974 | 0.961 | 0.982 | 0.950 |
| ProA\_C | 0.8869 | 0.2355 | 0.1696 | 0.0513 | 0.3083 | 0.2808 | -0.0806 | 0.9712 |  | 0.4551 | 0.4372 | 0.4156 | 0.4077 | 0.0709 | 0.2007 | 0.0230 | 0.2119 | 0.1839 | 0.0095 | 0.2944 | 0.1901 | 0.2175 | 0.3719 | 0.3640 | 0.4036 | 0.3911 | 0.4251 | 0.0079 | 0.975 | 0.960 | 0.945 | 0.964 | 0.931 |
| ProS\_C | 0.4921 | 0.1418 | -0.0199 | -0.1170 | 0.1756 | 0.2840 | -0.1234 | 0.4379 | 0.4551 |  | 0.8963 | 0.1866 | 0.1927 | 0.0637 | 0.0997 | -0.0476 | 0.1485 | 0.1419 | -0.0609 | 0.2184 | 0.1145 | 0.0144 | 0.1355 | 0.2625 | 0.1427 | 0.1650 | 0.2129 | 0.0154 | 0.969 | 0.941 | 0.686 | 0.967 | 0.850 |
| ProS\_L | 0.4802 | 0.1377 | -0.0566 | -0.1641 | 0.1337 | 0.2777 | -0.1194 | 0.4193 | 0.4372 | 0.8963 |  | 0.1814 | 0.1873 | 0.0619 | 0.1042 | -0.0798 | 0.1192 | 0.1107 | -0.0497 | 0.2223 | 0.1169 | -0.0057 | 0.1059 | 0.2397 | 0.0948 | 0.1418 | 0.1846 | 0.0094 | 0.961 | 0.931 | 0.955 | 0.975 | 0.938 |
| SelP\_C | 0.4215 | 0.1203 | 0.2953 | 0.1278 | 0.0930 | 0.0744 | -0.0743 | 0.4311 | 0.4156 | 0.1866 | 0.1814 |  | 0.9931 | 0.5561 | 0.4982 | 0.1172 | -0.0344 | -0.0350 | 0.1503 | 0.0917 | 0.2309 | 0.2231 | 0.2389 | 0.2094 | 0.2171 | 0.2634 | 0.2562 | 0.0074 | 0.991 | 0.977 | 0.962 | 0.992 | 0.850 |
| SelP\_L | 0.4135 | 0.1213 | 0.2902 | 0.1247 | 0.0891 | 0.0701 | -0.0729 | 0.4222 | 0.4077 | 0.1927 | 0.1873 | 0.9931 |  | 0.5650 | 0.5074 | 0.1173 | -0.0417 | -0.0402 | 0.1537 | 0.0880 | 0.2314 | 0.2213 | 0.2344 | 0.2052 | 0.2096 | 0.2596 | 0.2473 | 0.0074 | 0.991 | 0.978 | 0.970 | 0.992 | 0.968 |
| SelDH\_C | 0.0598 | 0.0823 | 0.2934 | 0.2225 | 0.0653 | 0.0123 | 0.0139 | 0.0933 | 0.0709 | 0.0637 | 0.0619 | 0.5561 | 0.5650 |  | 0.4378 | 0.2415 | -0.1526 | -0.1057 | 0.2680 | -0.1004 | 0.1133 | 0.0488 | 0.0838 | 0.0808 | 0.0551 | 0.1097 | 0.0706 | 0.0069 | 0.926 | 0.920 | 0.503 | 0.943 | 0.825 |
| SelM\_L | 0.2277 | 0.3011 | 0.5461 | 0.5087 | 0.2123 | 0.2446 | 0.2774 | 0.2568 | 0.2007 | 0.0997 | 0.1042 | 0.4982 | 0.5074 | 0.4378 |  | 0.8082 | -0.1015 | -0.0362 | 0.8641 | -0.0887 | 0.1973 | 0.2221 | 0.4027 | 0.4346 | 0.3867 | 0.4369 | 0.3724 | 0.1111 | 0.995 | 0.969 | 0.977 | 0.997 | 0.873 |
| SnasM\_C | 0.0396 | 0.2568 | 0.5442 | 0.6019 | 0.1756 | 0.1366 | 0.3628 | 0.0929 | 0.0230 | -0.0476 | -0.0798 | 0.1172 | 0.1173 | 0.2415 | 0.8082 |  | -0.1730 | -0.1060 | 0.9453 | -0.1807 | 0.1128 | 0.1713 | 0.3083 | 0.3023 | 0.3287 | 0.3255 | 0.2535 | 0.1171 | 0.980 | 0.921 | 0.963 | 0.989 | 0.809 |
| SmanM\_C | 0.2214 | 0.1706 | -0.1241 | -0.0919 | 0.3054 | 0.1528 | -0.1686 | 0.1908 | 0.2119 | 0.1485 | 0.1192 | -0.0344 | -0.0417 | -0.1526 | -0.1015 | -0.1730 |  | 0.9613 | -0.1695 | 0.3184 | -0.0788 | 0.0939 | 0.2546 | 0.1820 | 0.3022 | 0.2708 | 0.2541 | 0.1394 | 0.457 | 0.740 | 0.885 | 0.970 | 0.329 |
| SmanM\_L | 0.2042 | 0.1970 | -0.0744 | -0.0321 | 0.3264 | 0.1980 | -0.1293 | 0.1740 | 0.1839 | 0.1419 | 0.1107 | -0.0350 | -0.0402 | -0.1057 | -0.0362 | -0.1060 | 0.9613 |  | -0.0978 | 0.2673 | -0.0929 | 0.0675 | 0.2811 | 0.2294 | 0.3353 | 0.3014 | 0.2816 | 0.1200 | 0.522 | 0.692 | 0.879 | 0.964 | 0.299 |
| SnasM\_L | 0.0237 | 0.2326 | 0.5423 | 0.5602 | 0.1441 | 0.1462 | 0.3516 | 0.0722 | 0.0095 | -0.0609 | -0.0497 | 0.1503 | 0.1537 | 0.2680 | 0.8641 | 0.9453 | -0.1695 | -0.0978 |  | -0.2198 | 0.1262 | 0.1654 | 0.2919 | 0.3134 | 0.2963 | 0.3105 | 0.2348 | 0.1116 | 0.954 | 0.849 | 0.899 | 0.986 | 0.521 |
| TrHO\_C | 0.2973 | 0.3105 | -0.0949 | -0.1117 | 0.1574 | 0.1801 | -0.2263 | 0.2774 | 0.2944 | 0.2184 | 0.2223 | 0.0917 | 0.0880 | -0.1004 | -0.0887 | -0.1807 | 0.3184 | 0.2673 | -0.2198 |  | 0.0009 | 0.0168 | 0.2811 | 0.1145 | 0.2078 | 0.3105 | 0.2930 | 0.1399 | 0.981 | 0.970 | 0.857 | 0.964 | 0.871 |
| TrEJ\_C | 0.1861 | 0.0427 | 0.2737 | 0.2266 | 0.0126 | 0.0133 | 0.0575 | 0.2124 | 0.1901 | 0.1145 | 0.1169 | 0.2309 | 0.2314 | 0.1133 | 0.1973 | 0.1128 | -0.0788 | -0.0929 | 0.1262 | 0.0009 |  | 0.3635 | 0.2132 | 0.2050 | 0.2226 | 0.2105 | 0.2029 | 0.0164 | 0.979 | 0.935 | 0.946 | 0.823 | 0.776 |
| TrGo\_C | 0.1878 | 0.0752 | 0.3999 | 0.3457 | 0.0745 | -0.2364 | 0.0467 | 0.2332 | 0.2175 | 0.0144 | -0.0057 | 0.2231 | 0.2213 | 0.0488 | 0.2221 | 0.1713 | 0.0939 | 0.0675 | 0.1654 | 0.0168 | 0.3635 |  | 0.3117 | 0.2732 | 0.3280 | 0.2972 | 0.3007 | 0.0397 | 0.971 | 0.969 | 0.871 | 0.777 | 0.880 |
| TrSel\_C | 0.4138 | 0.4504 | 0.4535 | 0.5123 | 0.3827 | 0.4698 | 0.1649 | 0.4204 | 0.3719 | 0.1355 | 0.1059 | 0.2389 | 0.2344 | 0.0838 | 0.4027 | 0.3083 | 0.2546 | 0.2811 | 0.2919 | 0.2811 | 0.2132 | 0.3117 |  | 0.6627 | 0.8903 | 0.9541 | 0.7115 | 0.0154 | 0.993 | 0.990 | 0.993 | 0.732 | 0.866 |
| TrSman\_C | 0.4148 | 0.3987 | 0.3312 | 0.3750 | 0.3660 | 0.8045 | 0.1501 | 0.3995 | 0.3640 | 0.2625 | 0.2397 | 0.2094 | 0.2052 | 0.0808 | 0.4346 | 0.3023 | 0.1820 | 0.2294 | 0.3134 | 0.1145 | 0.2050 | 0.2732 | 0.6627 |  | 0.7370 | 0.6803 | 0.6961 | 0.0655 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |
| TrSnas\_C | 0.4440 | 0.4464 | 0.4201 | 0.5009 | 0.4340 | 0.5454 | 0.2108 | 0.4549 | 0.4036 | 0.1427 | 0.0948 | 0.2171 | 0.2096 | 0.0551 | 0.3867 | 0.3287 | 0.3022 | 0.3353 | 0.2963 | 0.2078 | 0.2226 | 0.3280 | 0.8903 | 0.7370 |  | 0.8753 | 0.7053 | 0.0352 | 0.971 | 0.988 | 0.983 | 0.740 | 0.991 |
| TrTr\_C | 0.4396 | 0.4921 | 0.4662 | 0.5168 | 0.4022 | 0.4999 | 0.1574 | 0.4403 | 0.3911 | 0.1650 | 0.1418 | 0.2634 | 0.2596 | 0.1097 | 0.4369 | 0.3255 | 0.2708 | 0.3014 | 0.3105 | 0.3105 | 0.2105 | 0.2972 | 0.9541 | 0.6803 | 0.8753 |  | 0.7415 | 0.0188 | 0.997 | 0.989 | 0.993 | 0.932 | 0.958 |
| TrTr\_L | 0.4633 | 0.4450 | 0.4157 | 0.4570 | 0.3258 | 0.5297 | 0.0834 | 0.4610 | 0.4251 | 0.2129 | 0.1846 | 0.2562 | 0.2473 | 0.0706 | 0.3724 | 0.2535 | 0.2541 | 0.2816 | 0.2348 | 0.2930 | 0.2029 | 0.3007 | 0.7115 | 0.6961 | 0.7053 | 0.7415 |  | 0.0169 | 0.998 | 0.992 | 0.995 | 0.995 | 0.989 |

#%>% set\_header\_labels(values = list(GoSub\_C = "Alare/AlareCont"))

comparing AA\_C, ProA\_L, and ProA\_C

first\_set\_compare <- slice(.data = cor\_icc\_nas, c(1, 8, 9))  
first\_set\_compare <- select(.data = first\_set\_compare, c(1,2,9,10,29,30,31,32,33,34))  
  
#Size 12 Table TNR  
flextable(first\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("AA\_C, ProA\_L, & ProA\_C Comparison") %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_AA\_C = "Correlation w/ AA\_C",  
 cor\_ProA\_L = "Correlation w/ ProA\_L",  
 cor\_ProA\_C = "Correlation w/ ProA\_C",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table 3**: AA\_C, ProA\_L, &amp; ProA\_C Comparison

| **Measurement** | **Correlation w/ AA\_C** | **Correlation w/ ProA\_L** | **Correlation w/ ProA\_C** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AA\_C |  | 0.8962 | 0.8869 | 0.0084 | 0.987 | 0.974 | 0.974 | 0.969 | 0.952 |
| ProA\_L | 0.8962 |  | 0.9712 | 0.0079 | 0.986 | 0.974 | 0.961 | 0.982 | 0.950 |
| ProA\_C | 0.8869 | 0.9712 |  | 0.0079 | 0.975 | 0.960 | 0.945 | 0.964 | 0.931 |

#Autofit Width Table TNR  
flextable(first\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("AA\_C, ProA\_L, & ProA\_C Comparison") %>%   
 fit\_to\_width(7.5) %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_AA\_C = "Correlation w/ AA\_C",  
 cor\_ProA\_L = "Correlation w/ ProA\_L",  
 cor\_ProA\_C = "Correlation w/ ProA\_C",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table** **4**: AA\_C, ProA\_L, &amp; ProA\_C Comparison

| **Measurement** | **Correlation w/ AA\_C** | **Correlation w/ ProA\_L** | **Correlation w/ ProA\_C** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AA\_C |  | 0.8962 | 0.8869 | 0.0084 | 0.987 | 0.974 | 0.974 | 0.969 | 0.952 |
| ProA\_L | 0.8962 |  | 0.9712 | 0.0079 | 0.986 | 0.974 | 0.961 | 0.982 | 0.950 |
| ProA\_C | 0.8869 | 0.9712 |  | 0.0079 | 0.975 | 0.960 | 0.945 | 0.964 | 0.931 |

comparing BiW\_L and BiW\_C

second\_set\_compare <- slice(.data = cor\_icc\_nas, c(3, 4))  
second\_set\_compare <- select(.data = second\_set\_compare, c(1,4,5,29,30,31,32,33,34))  
  
#Size 12 Table TNR  
flextable(second\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("BiW\_C & BiW\_L Comparison") %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_BiW\_C = "Correlation with BiW\_C",  
 cor\_BiW\_L = "Correlation with BiW\_L",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table 5**: BiW\_C &amp; BiW\_L Comparison

| **Measurement** | **Correlation with BiW\_C** | **Correlation with BiW\_L** | **measureNAprops** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BiW\_C |  | 0.8934 | 0.0084 | 0.917 | 0.944 | 0.849 | 0.962 | 0.538 |
| BiW\_L | 0.8934 |  | 0.0084 | 0.924 | 0.915 | 0.692 | 0.926 | 0.689 |

#Autofit Width Table TNR  
flextable(second\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("BiW\_C & BiW\_L Comparison") %>%   
 fit\_to\_width(7.5) %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_BiW\_C = "Correlation with BiW\_C",  
 cor\_BiW\_L = "Correlation with BiW\_L",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table** **6**: BiW\_C &amp; BiW\_L Comparison

| **Measurement** | **Correlation with BiW\_C** | **Correlation with BiW\_L** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BiW\_C |  | 0.8934 | 0.0084 | 0.917 | 0.944 | 0.849 | 0.962 | 0.538 |
| BiW\_L | 0.8934 |  | 0.0084 | 0.924 | 0.915 | 0.692 | 0.926 | 0.689 |

comparing SnasM\_L, SnasM\_C, SelM\_L

third\_set\_compare <- slice(.data = cor\_icc\_nas, c(15, 16, 19))  
third\_set\_compare <- select(.data = third\_set\_compare, c(1,16,17,20,29, 30,31,32,33,34))  
  
#Size 12 Table TNR  
flextable(third\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("SnasM\_L, SnasM\_C, & SelM\_L Comparison") %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_SnasM\_L = "Correlation w/ SnasM\_L",  
 cor\_SnasM\_C = "Correlation w/ SnasM\_C",  
 cor\_SelM\_L = "Correlation w/ SelM\_L",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table 7**: SnasM\_L, SnasM\_C, &amp; SelM\_L Comparison

| **Measurement** | **Correlation w/ SelM\_L** | **Correlation w/ SnasM\_C** | **Correlation w/ SnasM\_L** | **measureNAprops** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SelM\_L |  | 0.8082 | 0.8641 | 0.1111 | 0.995 | 0.969 | 0.977 | 0.997 | 0.873 |
| SnasM\_C | 0.8082 |  | 0.9453 | 0.1171 | 0.980 | 0.921 | 0.963 | 0.989 | 0.809 |
| SnasM\_L | 0.8641 | 0.9453 |  | 0.1116 | 0.954 | 0.849 | 0.899 | 0.986 | 0.521 |

#Autofit Width Table TNR  
flextable(third\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("SnasM\_L, SnasM\_C, & SelM\_L Comparison") %>%   
 fit\_to\_width(7.5) %>%   
 autofit() %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_SnasM\_L = "Correlation w/ SnasM\_L",  
 cor\_SnasM\_C = "Correlation w/ SnasM\_C",  
 cor\_SelM\_L = "Correlation w/ SelM\_L",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table** **8**: SnasM\_L, SnasM\_C, &amp; SelM\_L Comparison

| **Measurement** | **Correlation w/ SelM\_L** | **Correlation w/ SnasM\_C** | **Correlation w/ SnasM\_L** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SelM\_L |  | 0.8082 | 0.8641 | 0.1111 | 0.995 | 0.969 | 0.977 | 0.997 | 0.873 |
| SnasM\_C | 0.8082 |  | 0.9453 | 0.1171 | 0.980 | 0.921 | 0.963 | 0.989 | 0.809 |
| SnasM\_L | 0.8641 | 0.9453 |  | 0.1116 | 0.954 | 0.849 | 0.899 | 0.986 | 0.521 |

TrSel\_C, TrTr\_C, TrTr\_L, TrSnas\_C, TrSman\_C

fourth\_set\_compare <- slice(.data = cor\_icc\_nas, c(23, 24, 25, 26, 27))  
fourth\_set\_compare <- select(.data = fourth\_set\_compare, c(1,24,25,26,27,28,29,30,31,32,33,34))  
  
#Size 12 Table TNR  
flextable(fourth\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("TrSel\_C, TrSnas\_C, TrTr\_C, & TrTr\_L Comparison") %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_TrSel\_C = "Correlation w/ TrSel\_C",  
 cor\_TrTr\_C = "Correlation w/ TrTr\_C",  
 cor\_TrTr\_L = "Correlation w/ TrTr\_L",  
 cor\_TrSnas\_C = "Correlation w/ TrSnas\_C",  
 cor\_TrSman\_C = "Correlation w/ TrSman\_C",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table 9**: TrSel\_C, TrSnas\_C, TrTr\_C, &amp; TrTr\_L Comparison

| **Measurement** | **Correlation w/ TrSel\_C** | **Correlation w/ TrSman\_C** | **Correlation w/ TrSnas\_C** | **Correlation w/ TrTr\_C** | **Correlation w/ TrTr\_L** | **measureNAprops** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TrSel\_C |  | 0.6627 | 0.8903 | 0.9541 | 0.7115 | 0.0154 | 0.993 | 0.990 | 0.993 | 0.732 | 0.866 |
| TrSman\_C | 0.6627 |  | 0.7370 | 0.6803 | 0.6961 | 0.0655 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |
| TrSnas\_C | 0.8903 | 0.7370 |  | 0.8753 | 0.7053 | 0.0352 | 0.971 | 0.988 | 0.983 | 0.740 | 0.991 |
| TrTr\_C | 0.9541 | 0.6803 | 0.8753 |  | 0.7415 | 0.0188 | 0.997 | 0.989 | 0.993 | 0.932 | 0.958 |
| TrTr\_L | 0.7115 | 0.6961 | 0.7053 | 0.7415 |  | 0.0169 | 0.998 | 0.992 | 0.995 | 0.995 | 0.989 |

#Autofit Width Table TNR  
flextable(fourth\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("TrSel\_C, TrSnas\_C, TrTr\_C, & TrTr\_L Comparison") %>%   
 fit\_to\_width(7.5) %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_TrSel\_C = "Correlation w/ TrSel\_C",  
 cor\_TrTr\_C = "Correlation w/ TrTr\_C",  
 cor\_TrTr\_L = "Correlation w/ TrTr\_L",  
 cor\_TrSnas\_C = "Correlation w/ TrSnas\_C",  
 cor\_TrSman\_C = "Correlation w/ TrSman\_C",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table** **10**: TrSel\_C, TrSnas\_C, TrTr\_C, &amp; TrTr\_L Comparison

| **Measurement** | **Correlation w/ TrSel\_C** | **Correlation w/ TrSman\_C** | **Correlation w/ TrSnas\_C** | **Correlation w/ TrTr\_C** | **Correlation w/ TrTr\_L** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TrSel\_C |  | 0.6627 | 0.8903 | 0.9541 | 0.7115 | 0.0154 | 0.993 | 0.990 | 0.993 | 0.732 | 0.866 |
| TrSman\_C | 0.6627 |  | 0.7370 | 0.6803 | 0.6961 | 0.0655 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |
| TrSnas\_C | 0.8903 | 0.7370 |  | 0.8753 | 0.7053 | 0.0352 | 0.971 | 0.988 | 0.983 | 0.740 | 0.991 |
| TrTr\_C | 0.9541 | 0.6803 | 0.8753 |  | 0.7415 | 0.0188 | 0.997 | 0.989 | 0.993 | 0.932 | 0.958 |
| TrTr\_L | 0.7115 | 0.6961 | 0.7053 | 0.7415 |  | 0.0169 | 0.998 | 0.992 | 0.995 | 0.995 | 0.989 |

GoSub\_C and TrSman\_C

fifth\_set\_compare <- slice(.data = cor\_icc\_nas, c(6,24))  
fifth\_set\_compare <- select(.data = fifth\_set\_compare, c(1,7,25,29,30,31,32,33,34))  
  
#Size 12 Table TNR  
flextable(fifth\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("TrSel\_C, TrSnas\_C, TrTr\_C, & TrTr\_L Comparison") %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_GoSub\_C = "Correlation w/ GoSub\_C",  
 cor\_TrSman\_C = "Correlation w/ TrSman\_C",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table 11**: TrSel\_C, TrSnas\_C, TrTr\_C, &amp; TrTr\_L Comparison

| **Measurement** | **Correlation w/ GoSub\_C** | **Correlation w/ TrSman\_C** | **measureNAprops** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GoSub\_C |  | 0.8045 | 0.0630 | 0.937 | 0.950 | 0.919 | 0.944 | 0.923 |
| TrSman\_C | 0.8045 |  | 0.0655 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |

#Autofit Width Table TNR  
flextable(fifth\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("TrSel\_C, TrSnas\_C, TrTr\_C, & TrTr\_L Comparison") %>%   
 fit\_to\_width(7.5) %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_GoSub\_C = "Correlation w/ GoSub\_C",  
 cor\_TrSman\_C = "Correlation w/ TrSman\_C",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table** **12**: TrSel\_C, TrSnas\_C, TrTr\_C, &amp; TrTr\_L Comparison

| **Measurement** | **Correlation w/ GoSub\_C** | **Correlation w/ TrSman\_C** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GoSub\_C |  | 0.8045 | 0.0630 | 0.937 | 0.950 | 0.919 | 0.944 | 0.923 |
| TrSman\_C | 0.8045 |  | 0.0655 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |

SelP\_L and SelP\_C

sixth\_set\_compare <- slice(.data = cor\_icc\_nas, c(12,13))  
sixth\_set\_compare <- select(.data = sixth\_set\_compare, c(1,13,14,29,30,31,32,33,34))  
  
#Size 12 Table TNR  
flextable(sixth\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("SelP\_L & SelP\_C Comparison") %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_SelP\_L = "Correlation w/ SelP\_L",  
 cor\_SelP\_C = "Correlation w/ SelP\_C",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table 13**: SelP\_L &amp; SelP\_C Comparison

| **Measurement** | **Correlation w/ SelP\_C** | **Correlation w/ SelP\_L** | **measureNAprops** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SelP\_C |  | 0.9931 | 0.0074 | 0.991 | 0.977 | 0.962 | 0.992 | 0.850 |
| SelP\_L | 0.9931 |  | 0.0074 | 0.991 | 0.978 | 0.970 | 0.992 | 0.968 |

#Autofit Width Table TNR  
flextable(sixth\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("SelP\_L & SelP\_C Comparison") %>%   
 fit\_to\_width(7.5) %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_SelP\_L = "Correlation w/ SelP\_L",  
 cor\_SelP\_C = "Correlation w/ SelP\_C",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table** **14**: SelP\_L &amp; SelP\_C Comparison

| **Measurement** | **Correlation w/ SelP\_C** | **Correlation w/ SelP\_L** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SelP\_C |  | 0.9931 | 0.0074 | 0.991 | 0.977 | 0.962 | 0.992 | 0.850 |
| SelP\_L | 0.9931 |  | 0.0074 | 0.991 | 0.978 | 0.970 | 0.992 | 0.968 |

ProS\_C and ProS\_L

seventh\_set\_compare <- slice(.data = cor\_icc\_nas, c(10,11))  
seventh\_set\_compare <- select(.data = seventh\_set\_compare, c(1,11,12,29,30,31,32,33,34))  
  
#Size 12 Table TNR  
flextable(seventh\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("ProS\_C & ProS\_L Comparison") %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_ProS\_C = "Correlation w/ ProS\_C",  
 cor\_ProS\_L = "Correlation w/ ProS\_L",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table 15**: ProS\_C &amp; ProS\_L Comparison

| **Measurement** | **Correlation w/ ProS\_C** | **Correlation w/ ProS\_L** | **measureNAprops** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ProS\_C |  | 0.8963 | 0.0154 | 0.969 | 0.941 | 0.686 | 0.967 | 0.850 |
| ProS\_L | 0.8963 |  | 0.0094 | 0.961 | 0.931 | 0.955 | 0.975 | 0.938 |

#Autofit Width Table TNR  
flextable(seventh\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("ProS\_C & ProS\_L Comparison") %>%   
 fit\_to\_width(7.5) %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_ProS\_C = "Correlation w/ ProS\_C",  
 cor\_ProS\_L = "Correlation w/ ProS\_L",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table** **16**: ProS\_C &amp; ProS\_L Comparison

| **Measurement** | **Correlation w/ ProS\_C** | **Correlation w/ ProS\_L** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ProS\_C |  | 0.8963 | 0.0154 | 0.969 | 0.941 | 0.686 | 0.967 | 0.850 |
| ProS\_L | 0.8963 |  | 0.0094 | 0.961 | 0.931 | 0.955 | 0.975 | 0.938 |

SmanM\_C and SmanM\_L

eighth\_set\_compare <- slice(.data = cor\_icc\_nas, c(17,18))  
eighth\_set\_compare <- select(.data = eighth\_set\_compare, c(1,18,19,29,30,31,32,33,34))  
  
#Size 12 Table TNR  
flextable(eighth\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("SmanM\_C & SmanM\_L Comparison") %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_SmanM\_C = "Correlation w/ SmanM\_C",  
 cor\_SmanM\_L = "Correlation w/ SmanM\_L",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table 17**: SmanM\_C &amp; SmanM\_L Comparison

| **Measurement** | **Correlation w/ SmanM\_C** | **Correlation w/ SmanM\_L** | **measureNAprops** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SmanM\_C |  | 0.9613 | 0.1394 | 0.457 | 0.740 | 0.885 | 0.970 | 0.329 |
| SmanM\_L | 0.9613 |  | 0.1200 | 0.522 | 0.692 | 0.879 | 0.964 | 0.299 |

#Autofit Width Table TNR  
flextable(eighth\_set\_compare) %>%  
 my\_ft\_theme()%>%   
 bold(part = "header") %>%   
 set\_caption("SmanM\_C & SmanM\_L Comparison") %>%   
 fit\_to\_width(7.5) %>%   
 set\_header\_labels(values = list(measure\_name = "Measurement",  
 cor\_SmanM\_C = "Correlation w/ SmanM\_C",  
 cor\_SmanM\_L = "Correlation w/ SmanM\_L",  
 measureNAprops = "Proportion of NA values",  
 coderA\_intra\_icc = "IntraRR ICC for Coder A",  
 coderB\_intra\_icc = "IntraRR ICC for Coder B",  
 coderC\_intra\_icc = "IntraRR ICC for Coder C",  
 coderD\_intra\_icc = "IntraRR ICC for Coder D",  
 inter\_icc = "InterRR for all coders"))

**Table** **18**: SmanM\_C &amp; SmanM\_L Comparison

| **Measurement** | **Correlation w/ SmanM\_C** | **Correlation w/ SmanM\_L** | **Proportion of NA values** | **IntraRR ICC for Coder A** | **IntraRR ICC for Coder B** | **IntraRR ICC for Coder C** | **IntraRR ICC for Coder D** | **InterRR for all coders** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SmanM\_C |  | 0.9613 | 0.1394 | 0.457 | 0.740 | 0.885 | 0.970 | 0.329 |
| SmanM\_L | 0.9613 |  | 0.1200 | 0.522 | 0.692 | 0.879 | 0.964 | 0.299 |