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 |  | 0.2511 | 0.1559 | 0.0361 | 0.3356 | 0.3231 | -0.0242 | 0.8962 | 0.8870 | 0.4925 | 0.4806 | 0.4216 | 0.4135 | 0.0472 | 0.2278 | 0.0439 | 0.2223 | 0.2052 | 0.0238 | 0.2973 | 0.1865 | 0.1855 | 0.4141 | 0.4115 | 0.4436 | 0.4395 | 0.4629 | 0.0084 | 0.987 | 0.974 | 0.974 | 0.969 | 0.952 |
| BGl\_C | 0.2511 |  | 0.2220 | 0.2588 | 0.3035 | 0.3238 | 0.0501 | 0.2555 | 0.2360 | 0.1422 | 0.1382 | 0.1206 | 0.1215 | 0.0725 | 0.3012 | 0.2373 | 0.1713 | 0.1976 | 0.2326 | 0.3105 | 0.0431 | 0.0830 | 0.4506 | 0.3880 | 0.4463 | 0.4922 | 0.4449 | 0.2578 | 0.960 | 0.974 | 0.856 | 0.947 | 0.043 |
| BiW\_C | 0.1559 | 0.2220 |  | 0.8934 | 0.1101 | 0.0658 | 0.1915 | 0.2257 | 0.1695 | -0.0199 | -0.0566 | 0.2952 | 0.2902 | 0.2836 | 0.5461 | 0.5304 | -0.1241 | -0.0745 | 0.5423 | -0.0949 | 0.2736 | 0.3849 | 0.4534 | 0.3381 | 0.4201 | 0.4662 | 0.4157 | 0.0084 | 0.917 | 0.944 | 0.849 | 0.962 | 0.538 |
| BiW\_L | 0.0361 | 0.2588 | 0.8934 |  | 0.1441 | 0.1134 | 0.2797 | 0.1163 | 0.0512 | -0.1171 | -0.1642 | 0.1277 | 0.1246 | 0.2145 | 0.5086 | 0.5795 | -0.0920 | -0.0323 | 0.5602 | -0.1117 | 0.2266 | 0.3305 | 0.5121 | 0.3746 | 0.5009 | 0.5168 | 0.4570 | 0.0084 | 0.924 | 0.915 | 0.692 | 0.926 | 0.689 |
| ChCh\_C | 0.3356 | 0.3035 | 0.1101 | 0.1441 |  | 0.3175 | -0.0358 | 0.3311 | 0.3086 | 0.1758 | 0.1341 | 0.0932 | 0.0892 | 0.0532 | 0.2124 | 0.1736 | 0.3057 | 0.3267 | 0.1441 | 0.1574 | 0.0129 | 0.0729 | 0.3829 | 0.3584 | 0.4339 | 0.4022 | 0.3257 | 0.0213 | 0.984 | 0.968 | 0.924 | 0.949 | 0.966 |
| GoSub\_C | 0.3231 | 0.3238 | 0.0658 | 0.1134 | 0.3175 |  | 0.0219 | 0.2826 | 0.2637 | 0.2612 | 0.2601 | 0.0850 | 0.0804 | 0.0182 | 0.2186 | 0.1063 | 0.1708 | 0.2101 | 0.1201 | 0.1762 | 0.0054 | -0.1844 | 0.4293 | 0.7850 | 0.4860 | 0.4528 | 0.4851 | 0.0630 | 0.937 | 0.950 | 0.919 | 0.944 | 0.923 |
| NRB\_L | -0.0242 | 0.0501 | 0.1915 | 0.2797 | -0.0358 | 0.0219 |  | -0.0199 | -0.0762 | -0.1206 | -0.1150 | -0.0786 | -0.0766 | 0.0142 | 0.2751 | 0.3499 | -0.1670 | -0.1293 | 0.3484 | -0.2132 | 0.0550 | 0.0368 | 0.1661 | 0.1486 | 0.2109 | 0.1606 | 0.0954 | 0.0074 | 0.830 | 0.757 | 0.384 | 0.915 | 0.245 |
| ProA\_L | 0.8962 | 0.2555 | 0.2257 | 0.1163 | 0.3311 | 0.2826 | -0.0199 |  | 0.9712 | 0.4381 | 0.4197 | 0.4312 | 0.4222 | 0.0787 | 0.2569 | 0.0975 | 0.1913 | 0.1746 | 0.0722 | 0.2774 | 0.2127 | 0.2293 | 0.4206 | 0.3991 | 0.4547 | 0.4403 | 0.4609 | 0.0079 | 0.986 | 0.974 | 0.961 | 0.982 | 0.950 |
| ProA\_C | 0.8870 | 0.2360 | 0.1695 | 0.0512 | 0.3086 | 0.2637 | -0.0762 | 0.9712 |  | 0.4554 | 0.4375 | 0.4157 | 0.4078 | 0.0567 | 0.2009 | 0.0291 | 0.2126 | 0.1846 | 0.0095 | 0.2944 | 0.1904 | 0.2150 | 0.3722 | 0.3643 | 0.4034 | 0.3911 | 0.4249 | 0.0079 | 0.975 | 0.960 | 0.945 | 0.964 | 0.931 |
| ProS\_C | 0.4925 | 0.1422 | -0.0199 | -0.1171 | 0.1758 | 0.2612 | -0.1206 | 0.4381 | 0.4554 |  | 0.8963 | 0.1868 | 0.1928 | 0.0512 | 0.0998 | -0.0454 | 0.1490 | 0.1425 | -0.0608 | 0.2184 | 0.1148 | 0.0159 | 0.1358 | 0.2631 | 0.1426 | 0.1651 | 0.2128 | 0.0154 | 0.969 | 0.941 | 0.686 | 0.967 | 0.850 |
| ProS\_L | 0.4806 | 0.1382 | -0.0566 | -0.1642 | 0.1341 | 0.2601 | -0.1150 | 0.4197 | 0.4375 | 0.8963 |  | 0.1816 | 0.1874 | 0.0492 | 0.1044 | -0.0752 | 0.1199 | 0.1115 | -0.0496 | 0.2223 | 0.1173 | -0.0029 | 0.1063 | 0.2424 | 0.0947 | 0.1419 | 0.1845 | 0.0094 | 0.961 | 0.931 | 0.955 | 0.975 | 0.938 |
| SelP\_C | 0.4216 | 0.1206 | 0.2952 | 0.1277 | 0.0932 | 0.0850 | -0.0786 | 0.4312 | 0.4157 | 0.1868 | 0.1816 |  | 0.9931 | 0.4814 | 0.4983 | 0.1193 | -0.0341 | -0.0347 | 0.1503 | 0.0917 | 0.2310 | 0.2111 | 0.2391 | 0.2097 | 0.2171 | 0.2635 | 0.2561 | 0.0074 | 0.991 | 0.977 | 0.962 | 0.992 | 0.850 |
| SelP\_L | 0.4135 | 0.1215 | 0.2902 | 0.1246 | 0.0892 | 0.0804 | -0.0766 | 0.4222 | 0.4078 | 0.1928 | 0.1874 | 0.9931 |  | 0.4867 | 0.5074 | 0.1190 | -0.0415 | -0.0399 | 0.1537 | 0.0880 | 0.2315 | 0.2085 | 0.2345 | 0.2063 | 0.2096 | 0.2596 | 0.2472 | 0.0074 | 0.991 | 0.978 | 0.970 | 0.992 | 0.968 |
| SelDH\_C | 0.0472 | 0.0725 | 0.2836 | 0.2145 | 0.0532 | 0.0182 | 0.0142 | 0.0787 | 0.0567 | 0.0512 | 0.0492 | 0.4814 | 0.4867 |  | 0.3751 | 0.2270 | -0.1576 | -0.1149 | 0.2557 | -0.1174 | 0.1144 | 0.0242 | 0.0681 | 0.0702 | 0.0374 | 0.0898 | 0.0622 | 0.0069 | 0.926 | 0.920 | 0.503 | 0.943 | 0.825 |
| SelM\_L | 0.2278 | 0.3012 | 0.5461 | 0.5086 | 0.2124 | 0.2186 | 0.2751 | 0.2569 | 0.2009 | 0.0998 | 0.1044 | 0.4983 | 0.5074 | 0.3751 |  | 0.8020 | -0.1012 | -0.0359 | 0.8641 | -0.0887 | 0.1974 | 0.2071 | 0.4028 | 0.4292 | 0.3867 | 0.4369 | 0.3723 | 0.1111 | 0.995 | 0.969 | 0.977 | 0.997 | 0.873 |
| SnasM\_C | 0.0439 | 0.2373 | 0.5304 | 0.5795 | 0.1736 | 0.1063 | 0.3499 | 0.0975 | 0.0291 | -0.0454 | -0.0752 | 0.1193 | 0.1190 | 0.2270 | 0.8020 |  | -0.1434 | -0.0779 | 0.9466 | -0.1800 | 0.1068 | 0.1573 | 0.3028 | 0.2913 | 0.3212 | 0.3171 | 0.2482 | 0.1170 | 0.980 | 0.921 | 0.963 | 0.989 | 0.809 |
| SmanM\_C | 0.2223 | 0.1713 | -0.1241 | -0.0920 | 0.3057 | 0.1708 | -0.1670 | 0.1913 | 0.2126 | 0.1490 | 0.1199 | -0.0341 | -0.0415 | -0.1576 | -0.1012 | -0.1434 |  | 0.9614 | -0.1693 | 0.3184 | -0.0783 | 0.1458 | 0.2550 | 0.1761 | 0.3019 | 0.2708 | 0.2538 | 0.1393 | 0.457 | 0.740 | 0.885 | 0.970 | 0.329 |
| SmanM\_L | 0.2052 | 0.1976 | -0.0745 | -0.0323 | 0.3267 | 0.2101 | -0.1293 | 0.1746 | 0.1846 | 0.1425 | 0.1115 | -0.0347 | -0.0399 | -0.1149 | -0.0359 | -0.0779 | 0.9614 |  | -0.0977 | 0.2673 | -0.0923 | 0.1210 | 0.2815 | 0.2229 | 0.3350 | 0.3014 | 0.2813 | 0.1200 | 0.522 | 0.692 | 0.879 | 0.964 | 0.299 |
| SnasM\_L | 0.0238 | 0.2326 | 0.5423 | 0.5602 | 0.1441 | 0.1201 | 0.3484 | 0.0722 | 0.0095 | -0.0608 | -0.0496 | 0.1503 | 0.1537 | 0.2557 | 0.8641 | 0.9466 | -0.1693 | -0.0977 |  | -0.2198 | 0.1262 | 0.1515 | 0.2919 | 0.3074 | 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 | 0.1762 | -0.2132 | 0.2774 | 0.2944 | 0.2184 | 0.2223 | 0.0917 | 0.0880 | -0.1174 | -0.0887 | -0.1800 | 0.3184 | 0.2673 | -0.2198 |  | 0.0009 | 0.0355 | 0.2811 | 0.1149 | 0.2078 | 0.3105 | 0.2930 | 0.1403 | 0.981 | 0.970 | 0.857 | 0.964 | 0.871 |
| TrEJ\_C | 0.1865 | 0.0431 | 0.2736 | 0.2266 | 0.0129 | 0.0054 | 0.0550 | 0.2127 | 0.1904 | 0.1148 | 0.1173 | 0.2310 | 0.2315 | 0.1144 | 0.1974 | 0.1068 | -0.0783 | -0.0923 | 0.1262 | 0.0009 |  | 0.3478 | 0.2134 | 0.2062 | 0.2226 | 0.2106 | 0.2028 | 0.0164 | 0.979 | 0.935 | 0.946 | 0.823 | 0.776 |
| TrGo\_C | 0.1855 | 0.0830 | 0.3849 | 0.3305 | 0.0729 | -0.1844 | 0.0368 | 0.2293 | 0.2150 | 0.0159 | -0.0029 | 0.2111 | 0.2085 | 0.0242 | 0.2071 | 0.1573 | 0.1458 | 0.1210 | 0.1515 | 0.0355 | 0.3478 |  | 0.2952 | 0.2100 | 0.3155 | 0.2828 | 0.2913 | 0.0397 | 0.971 | 0.969 | 0.871 | 0.777 | 0.880 |
| TrSel\_C | 0.4141 | 0.4506 | 0.4534 | 0.5121 | 0.3829 | 0.4293 | 0.1661 | 0.4206 | 0.3722 | 0.1358 | 0.1063 | 0.2391 | 0.2345 | 0.0681 | 0.4028 | 0.3028 | 0.2550 | 0.2815 | 0.2919 | 0.2811 | 0.2134 | 0.2952 |  | 0.6548 | 0.8902 | 0.9540 | 0.7114 | 0.0154 | 0.993 | 0.990 | 0.993 | 0.732 | 0.866 |
| TrSman\_C | 0.4115 | 0.3880 | 0.3381 | 0.3746 | 0.3584 | 0.7850 | 0.1486 | 0.3991 | 0.3643 | 0.2631 | 0.2424 | 0.2097 | 0.2063 | 0.0702 | 0.4292 | 0.2913 | 0.1761 | 0.2229 | 0.3074 | 0.1149 | 0.2062 | 0.2100 | 0.6548 |  | 0.7238 | 0.6719 | 0.6826 | 0.0654 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |
| TrSnas\_C | 0.4436 | 0.4463 | 0.4201 | 0.5009 | 0.4339 | 0.4860 | 0.2109 | 0.4547 | 0.4034 | 0.1426 | 0.0947 | 0.2171 | 0.2096 | 0.0374 | 0.3867 | 0.3212 | 0.3019 | 0.3350 | 0.2963 | 0.2078 | 0.2226 | 0.3155 | 0.8902 | 0.7238 |  | 0.8753 | 0.7053 | 0.0352 | 0.971 | 0.988 | 0.983 | 0.740 | 0.991 |
| TrTr\_C | 0.4395 | 0.4922 | 0.4662 | 0.5168 | 0.4022 | 0.4528 | 0.1606 | 0.4403 | 0.3911 | 0.1651 | 0.1419 | 0.2635 | 0.2596 | 0.0898 | 0.4369 | 0.3171 | 0.2708 | 0.3014 | 0.3105 | 0.3105 | 0.2106 | 0.2828 | 0.9540 | 0.6719 | 0.8753 |  | 0.7414 | 0.0188 | 0.997 | 0.989 | 0.993 | 0.932 | 0.958 |
| TrTr\_L | 0.4629 | 0.4449 | 0.4157 | 0.4570 | 0.3257 | 0.4851 | 0.0954 | 0.4609 | 0.4249 | 0.2128 | 0.1845 | 0.2561 | 0.2472 | 0.0622 | 0.3723 | 0.2482 | 0.2538 | 0.2813 | 0.2348 | 0.2930 | 0.2028 | 0.2913 | 0.7114 | 0.6826 | 0.7053 | 0.7414 |  | 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 |  | 0.2511 | 0.1559 | 0.0361 | 0.3356 | 0.3231 | -0.0242 | 0.8962 | 0.8870 | 0.4925 | 0.4806 | 0.4216 | 0.4135 | 0.0472 | 0.2278 | 0.0439 | 0.2223 | 0.2052 | 0.0238 | 0.2973 | 0.1865 | 0.1855 | 0.4141 | 0.4115 | 0.4436 | 0.4395 | 0.4629 | 0.0084 | 0.987 | 0.974 | 0.974 | 0.969 | 0.952 |
| BGl\_C | 0.2511 |  | 0.2220 | 0.2588 | 0.3035 | 0.3238 | 0.0501 | 0.2555 | 0.2360 | 0.1422 | 0.1382 | 0.1206 | 0.1215 | 0.0725 | 0.3012 | 0.2373 | 0.1713 | 0.1976 | 0.2326 | 0.3105 | 0.0431 | 0.0830 | 0.4506 | 0.3880 | 0.4463 | 0.4922 | 0.4449 | 0.2578 | 0.960 | 0.974 | 0.856 | 0.947 | 0.043 |
| BiW\_C | 0.1559 | 0.2220 |  | 0.8934 | 0.1101 | 0.0658 | 0.1915 | 0.2257 | 0.1695 | -0.0199 | -0.0566 | 0.2952 | 0.2902 | 0.2836 | 0.5461 | 0.5304 | -0.1241 | -0.0745 | 0.5423 | -0.0949 | 0.2736 | 0.3849 | 0.4534 | 0.3381 | 0.4201 | 0.4662 | 0.4157 | 0.0084 | 0.917 | 0.944 | 0.849 | 0.962 | 0.538 |
| BiW\_L | 0.0361 | 0.2588 | 0.8934 |  | 0.1441 | 0.1134 | 0.2797 | 0.1163 | 0.0512 | -0.1171 | -0.1642 | 0.1277 | 0.1246 | 0.2145 | 0.5086 | 0.5795 | -0.0920 | -0.0323 | 0.5602 | -0.1117 | 0.2266 | 0.3305 | 0.5121 | 0.3746 | 0.5009 | 0.5168 | 0.4570 | 0.0084 | 0.924 | 0.915 | 0.692 | 0.926 | 0.689 |
| ChCh\_C | 0.3356 | 0.3035 | 0.1101 | 0.1441 |  | 0.3175 | -0.0358 | 0.3311 | 0.3086 | 0.1758 | 0.1341 | 0.0932 | 0.0892 | 0.0532 | 0.2124 | 0.1736 | 0.3057 | 0.3267 | 0.1441 | 0.1574 | 0.0129 | 0.0729 | 0.3829 | 0.3584 | 0.4339 | 0.4022 | 0.3257 | 0.0213 | 0.984 | 0.968 | 0.924 | 0.949 | 0.966 |
| GoSub\_C | 0.3231 | 0.3238 | 0.0658 | 0.1134 | 0.3175 |  | 0.0219 | 0.2826 | 0.2637 | 0.2612 | 0.2601 | 0.0850 | 0.0804 | 0.0182 | 0.2186 | 0.1063 | 0.1708 | 0.2101 | 0.1201 | 0.1762 | 0.0054 | -0.1844 | 0.4293 | 0.7850 | 0.4860 | 0.4528 | 0.4851 | 0.0630 | 0.937 | 0.950 | 0.919 | 0.944 | 0.923 |
| NRB\_L | -0.0242 | 0.0501 | 0.1915 | 0.2797 | -0.0358 | 0.0219 |  | -0.0199 | -0.0762 | -0.1206 | -0.1150 | -0.0786 | -0.0766 | 0.0142 | 0.2751 | 0.3499 | -0.1670 | -0.1293 | 0.3484 | -0.2132 | 0.0550 | 0.0368 | 0.1661 | 0.1486 | 0.2109 | 0.1606 | 0.0954 | 0.0074 | 0.830 | 0.757 | 0.384 | 0.915 | 0.245 |
| ProA\_L | 0.8962 | 0.2555 | 0.2257 | 0.1163 | 0.3311 | 0.2826 | -0.0199 |  | 0.9712 | 0.4381 | 0.4197 | 0.4312 | 0.4222 | 0.0787 | 0.2569 | 0.0975 | 0.1913 | 0.1746 | 0.0722 | 0.2774 | 0.2127 | 0.2293 | 0.4206 | 0.3991 | 0.4547 | 0.4403 | 0.4609 | 0.0079 | 0.986 | 0.974 | 0.961 | 0.982 | 0.950 |
| ProA\_C | 0.8870 | 0.2360 | 0.1695 | 0.0512 | 0.3086 | 0.2637 | -0.0762 | 0.9712 |  | 0.4554 | 0.4375 | 0.4157 | 0.4078 | 0.0567 | 0.2009 | 0.0291 | 0.2126 | 0.1846 | 0.0095 | 0.2944 | 0.1904 | 0.2150 | 0.3722 | 0.3643 | 0.4034 | 0.3911 | 0.4249 | 0.0079 | 0.975 | 0.960 | 0.945 | 0.964 | 0.931 |
| ProS\_C | 0.4925 | 0.1422 | -0.0199 | -0.1171 | 0.1758 | 0.2612 | -0.1206 | 0.4381 | 0.4554 |  | 0.8963 | 0.1868 | 0.1928 | 0.0512 | 0.0998 | -0.0454 | 0.1490 | 0.1425 | -0.0608 | 0.2184 | 0.1148 | 0.0159 | 0.1358 | 0.2631 | 0.1426 | 0.1651 | 0.2128 | 0.0154 | 0.969 | 0.941 | 0.686 | 0.967 | 0.850 |
| ProS\_L | 0.4806 | 0.1382 | -0.0566 | -0.1642 | 0.1341 | 0.2601 | -0.1150 | 0.4197 | 0.4375 | 0.8963 |  | 0.1816 | 0.1874 | 0.0492 | 0.1044 | -0.0752 | 0.1199 | 0.1115 | -0.0496 | 0.2223 | 0.1173 | -0.0029 | 0.1063 | 0.2424 | 0.0947 | 0.1419 | 0.1845 | 0.0094 | 0.961 | 0.931 | 0.955 | 0.975 | 0.938 |
| SelP\_C | 0.4216 | 0.1206 | 0.2952 | 0.1277 | 0.0932 | 0.0850 | -0.0786 | 0.4312 | 0.4157 | 0.1868 | 0.1816 |  | 0.9931 | 0.4814 | 0.4983 | 0.1193 | -0.0341 | -0.0347 | 0.1503 | 0.0917 | 0.2310 | 0.2111 | 0.2391 | 0.2097 | 0.2171 | 0.2635 | 0.2561 | 0.0074 | 0.991 | 0.977 | 0.962 | 0.992 | 0.850 |
| SelP\_L | 0.4135 | 0.1215 | 0.2902 | 0.1246 | 0.0892 | 0.0804 | -0.0766 | 0.4222 | 0.4078 | 0.1928 | 0.1874 | 0.9931 |  | 0.4867 | 0.5074 | 0.1190 | -0.0415 | -0.0399 | 0.1537 | 0.0880 | 0.2315 | 0.2085 | 0.2345 | 0.2063 | 0.2096 | 0.2596 | 0.2472 | 0.0074 | 0.991 | 0.978 | 0.970 | 0.992 | 0.968 |
| SelDH\_C | 0.0472 | 0.0725 | 0.2836 | 0.2145 | 0.0532 | 0.0182 | 0.0142 | 0.0787 | 0.0567 | 0.0512 | 0.0492 | 0.4814 | 0.4867 |  | 0.3751 | 0.2270 | -0.1576 | -0.1149 | 0.2557 | -0.1174 | 0.1144 | 0.0242 | 0.0681 | 0.0702 | 0.0374 | 0.0898 | 0.0622 | 0.0069 | 0.926 | 0.920 | 0.503 | 0.943 | 0.825 |
| SelM\_L | 0.2278 | 0.3012 | 0.5461 | 0.5086 | 0.2124 | 0.2186 | 0.2751 | 0.2569 | 0.2009 | 0.0998 | 0.1044 | 0.4983 | 0.5074 | 0.3751 |  | 0.8020 | -0.1012 | -0.0359 | 0.8641 | -0.0887 | 0.1974 | 0.2071 | 0.4028 | 0.4292 | 0.3867 | 0.4369 | 0.3723 | 0.1111 | 0.995 | 0.969 | 0.977 | 0.997 | 0.873 |
| SnasM\_C | 0.0439 | 0.2373 | 0.5304 | 0.5795 | 0.1736 | 0.1063 | 0.3499 | 0.0975 | 0.0291 | -0.0454 | -0.0752 | 0.1193 | 0.1190 | 0.2270 | 0.8020 |  | -0.1434 | -0.0779 | 0.9466 | -0.1800 | 0.1068 | 0.1573 | 0.3028 | 0.2913 | 0.3212 | 0.3171 | 0.2482 | 0.1170 | 0.980 | 0.921 | 0.963 | 0.989 | 0.809 |
| SmanM\_C | 0.2223 | 0.1713 | -0.1241 | -0.0920 | 0.3057 | 0.1708 | -0.1670 | 0.1913 | 0.2126 | 0.1490 | 0.1199 | -0.0341 | -0.0415 | -0.1576 | -0.1012 | -0.1434 |  | 0.9614 | -0.1693 | 0.3184 | -0.0783 | 0.1458 | 0.2550 | 0.1761 | 0.3019 | 0.2708 | 0.2538 | 0.1393 | 0.457 | 0.740 | 0.885 | 0.970 | 0.329 |
| SmanM\_L | 0.2052 | 0.1976 | -0.0745 | -0.0323 | 0.3267 | 0.2101 | -0.1293 | 0.1746 | 0.1846 | 0.1425 | 0.1115 | -0.0347 | -0.0399 | -0.1149 | -0.0359 | -0.0779 | 0.9614 |  | -0.0977 | 0.2673 | -0.0923 | 0.1210 | 0.2815 | 0.2229 | 0.3350 | 0.3014 | 0.2813 | 0.1200 | 0.522 | 0.692 | 0.879 | 0.964 | 0.299 |
| SnasM\_L | 0.0238 | 0.2326 | 0.5423 | 0.5602 | 0.1441 | 0.1201 | 0.3484 | 0.0722 | 0.0095 | -0.0608 | -0.0496 | 0.1503 | 0.1537 | 0.2557 | 0.8641 | 0.9466 | -0.1693 | -0.0977 |  | -0.2198 | 0.1262 | 0.1515 | 0.2919 | 0.3074 | 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 | 0.1762 | -0.2132 | 0.2774 | 0.2944 | 0.2184 | 0.2223 | 0.0917 | 0.0880 | -0.1174 | -0.0887 | -0.1800 | 0.3184 | 0.2673 | -0.2198 |  | 0.0009 | 0.0355 | 0.2811 | 0.1149 | 0.2078 | 0.3105 | 0.2930 | 0.1403 | 0.981 | 0.970 | 0.857 | 0.964 | 0.871 |
| TrEJ\_C | 0.1865 | 0.0431 | 0.2736 | 0.2266 | 0.0129 | 0.0054 | 0.0550 | 0.2127 | 0.1904 | 0.1148 | 0.1173 | 0.2310 | 0.2315 | 0.1144 | 0.1974 | 0.1068 | -0.0783 | -0.0923 | 0.1262 | 0.0009 |  | 0.3478 | 0.2134 | 0.2062 | 0.2226 | 0.2106 | 0.2028 | 0.0164 | 0.979 | 0.935 | 0.946 | 0.823 | 0.776 |
| TrGo\_C | 0.1855 | 0.0830 | 0.3849 | 0.3305 | 0.0729 | -0.1844 | 0.0368 | 0.2293 | 0.2150 | 0.0159 | -0.0029 | 0.2111 | 0.2085 | 0.0242 | 0.2071 | 0.1573 | 0.1458 | 0.1210 | 0.1515 | 0.0355 | 0.3478 |  | 0.2952 | 0.2100 | 0.3155 | 0.2828 | 0.2913 | 0.0397 | 0.971 | 0.969 | 0.871 | 0.777 | 0.880 |
| TrSel\_C | 0.4141 | 0.4506 | 0.4534 | 0.5121 | 0.3829 | 0.4293 | 0.1661 | 0.4206 | 0.3722 | 0.1358 | 0.1063 | 0.2391 | 0.2345 | 0.0681 | 0.4028 | 0.3028 | 0.2550 | 0.2815 | 0.2919 | 0.2811 | 0.2134 | 0.2952 |  | 0.6548 | 0.8902 | 0.9540 | 0.7114 | 0.0154 | 0.993 | 0.990 | 0.993 | 0.732 | 0.866 |
| TrSman\_C | 0.4115 | 0.3880 | 0.3381 | 0.3746 | 0.3584 | 0.7850 | 0.1486 | 0.3991 | 0.3643 | 0.2631 | 0.2424 | 0.2097 | 0.2063 | 0.0702 | 0.4292 | 0.2913 | 0.1761 | 0.2229 | 0.3074 | 0.1149 | 0.2062 | 0.2100 | 0.6548 |  | 0.7238 | 0.6719 | 0.6826 | 0.0654 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |
| TrSnas\_C | 0.4436 | 0.4463 | 0.4201 | 0.5009 | 0.4339 | 0.4860 | 0.2109 | 0.4547 | 0.4034 | 0.1426 | 0.0947 | 0.2171 | 0.2096 | 0.0374 | 0.3867 | 0.3212 | 0.3019 | 0.3350 | 0.2963 | 0.2078 | 0.2226 | 0.3155 | 0.8902 | 0.7238 |  | 0.8753 | 0.7053 | 0.0352 | 0.971 | 0.988 | 0.983 | 0.740 | 0.991 |
| TrTr\_C | 0.4395 | 0.4922 | 0.4662 | 0.5168 | 0.4022 | 0.4528 | 0.1606 | 0.4403 | 0.3911 | 0.1651 | 0.1419 | 0.2635 | 0.2596 | 0.0898 | 0.4369 | 0.3171 | 0.2708 | 0.3014 | 0.3105 | 0.3105 | 0.2106 | 0.2828 | 0.9540 | 0.6719 | 0.8753 |  | 0.7414 | 0.0188 | 0.997 | 0.989 | 0.993 | 0.932 | 0.958 |
| TrTr\_L | 0.4629 | 0.4449 | 0.4157 | 0.4570 | 0.3257 | 0.4851 | 0.0954 | 0.4609 | 0.4249 | 0.2128 | 0.1845 | 0.2561 | 0.2472 | 0.0622 | 0.3723 | 0.2482 | 0.2538 | 0.2813 | 0.2348 | 0.2930 | 0.2028 | 0.2913 | 0.7114 | 0.6826 | 0.7053 | 0.7414 |  | 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 | 0.8870 | 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 | 0.8870 | 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 | 0.8870 | 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 | 0.8870 | 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 |  | 0.8020 | 0.8641 | 0.1111 | 0.995 | 0.969 | 0.977 | 0.997 | 0.873 |
| SnasM\_C | 0.8020 |  | 0.9466 | 0.1170 | 0.980 | 0.921 | 0.963 | 0.989 | 0.809 |
| SnasM\_L | 0.8641 | 0.9466 |  | 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 |  | 0.8020 | 0.8641 | 0.1111 | 0.995 | 0.969 | 0.977 | 0.997 | 0.873 |
| SnasM\_C | 0.8020 |  | 0.9466 | 0.1170 | 0.980 | 0.921 | 0.963 | 0.989 | 0.809 |
| SnasM\_L | 0.8641 | 0.9466 |  | 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 |  | 0.6548 | 0.8902 | 0.9540 | 0.7114 | 0.0154 | 0.993 | 0.990 | 0.993 | 0.732 | 0.866 |
| TrSman\_C | 0.6548 |  | 0.7238 | 0.6719 | 0.6826 | 0.0654 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |
| TrSnas\_C | 0.8902 | 0.7238 |  | 0.8753 | 0.7053 | 0.0352 | 0.971 | 0.988 | 0.983 | 0.740 | 0.991 |
| TrTr\_C | 0.9540 | 0.6719 | 0.8753 |  | 0.7414 | 0.0188 | 0.997 | 0.989 | 0.993 | 0.932 | 0.958 |
| TrTr\_L | 0.7114 | 0.6826 | 0.7053 | 0.7414 |  | 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 |  | 0.6548 | 0.8902 | 0.9540 | 0.7114 | 0.0154 | 0.993 | 0.990 | 0.993 | 0.732 | 0.866 |
| TrSman\_C | 0.6548 |  | 0.7238 | 0.6719 | 0.6826 | 0.0654 | 0.993 | 0.997 | 0.965 | 0.907 | 0.949 |
| TrSnas\_C | 0.8902 | 0.7238 |  | 0.8753 | 0.7053 | 0.0352 | 0.971 | 0.988 | 0.983 | 0.740 | 0.991 |
| TrTr\_C | 0.9540 | 0.6719 | 0.8753 |  | 0.7414 | 0.0188 | 0.997 | 0.989 | 0.993 | 0.932 | 0.958 |
| TrTr\_L | 0.7114 | 0.6826 | 0.7053 | 0.7414 |  | 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 |  | 0.785 | 0.0630 | 0.937 | 0.950 | 0.919 | 0.944 | 0.923 |
| TrSman\_C | 0.785 |  | 0.0654 | 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 |  | 0.785 | 0.0630 | 0.937 | 0.950 | 0.919 | 0.944 | 0.923 |
| TrSman\_C | 0.785 |  | 0.0654 | 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 |  | 0.9614 | 0.1393 | 0.457 | 0.740 | 0.885 | 0.970 | 0.329 |
| SmanM\_L | 0.9614 |  | 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 |  | 0.9614 | 0.1393 | 0.457 | 0.740 | 0.885 | 0.970 | 0.329 |
| SmanM\_L | 0.9614 |  | 0.1200 | 0.522 | 0.692 | 0.879 | 0.964 | 0.299 |