Supplement 1

Demopgraphics

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Import and check data

```
demo <- read_rds('data-cleaned/data-demographics.rds')</pre>
# Check
## Demographics
dim(demo)
## [1] 595
names (demo)
## [1] "ID"
                            "Sex"
                                                 "Age"
## [4] "Employment_status" "CD4_recent"
                                                 "ART_currently"
## [7] "Education"
glimpse(demo)
## Rows: 595
## Columns: 7
## $ ID
                        <chr> "RPB73", "RPB74", "RPB75", "RPB76", "RPB77", "RPB...
```

Basic descriptive statistics

Full cohort

Descriptives

```
demo %>%
    # Remove ID column
select(-ID) %>%
    # Convert character to factor
mutate_if(is.character, factor) %>%
skim()
```

Table 1: Data summary

Name Number of rows Number of columns	Piped data 595 6
Column type frequency: factor numeric	4 2
Group variables	 None

Variable type: factor

skim_variable	n_missing	complete_rate	n_unique	top_counts
Sex	0	1.00	2	Fem: 479, Mal: 116
Employment_status	49	0.92	4	Une: 329, Ful: 131, Par: 52, Oth: 34
ART_currently	5	0.99	2	Yes: 459, No: 131
Education	37	0.94	3	Sec: 393, Pri: 100, Ter: 65

Variable type: numeric

skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100
Age	8	0.99	37.31	9.06	19	31	36.0	42.00	76
CD4_recent	99	0.83	337.17	400.32	1	155	261.5	437.75	7300

By site

Sample size

Table 4: Sample size by study site

ID	Count
DD	60
NM	240
RESI	99
RPA	20
RPB	102
RPC	14
RPD	10
STIG	50

Descriptives

Table 5: Data summary

Name Number of rows Number of columns	Piped data 595 7
Column type frequency: factor numeric	4 2
Group variables	_ ID

Variable type: factor

skim_variable	ID	n_missing	complete_rate	n_unique	top_counts
Sex	DD	0	1.00	2	Fem: 39, Mal: 21
Sex	NM	0	1.00	2	Fem: 185, Mal: 55
Sex	RESI	0	1.00	2	Fem: 65, Mal: 34
Sex	RPA	0	1.00	1	Fem: 20, Mal: 0
Sex	RPB	0	1.00	1	Fem: 102, Mal: 0
Sex	RPC	0	1.00	1	Fem: 14, Mal: 0
Sex	RPD	0	1.00	1	Fem: 10, Mal: 0
Sex	STIG	0	1.00	2	Fem: 44, Mal: 6
Employment_status	DD	0	1.00	4	Une: 36, Ful: 17, Par: 6, Oth: 1
Employment_status	NM	49	0.80	4	Une: 126, Ful: 55, Par: 9, Oth: 1
Employment_status	RESI	0	1.00	4	Une: 47, Ful: 35, Par: 16, Oth: 1
Employment_status	RPA	0	1.00	3	Une: 12, Oth: 4, Par: 4, Ful: 0
Employment_status	RPB	0	1.00	4	Une: 72, Oth: 20, Par: 7, Ful: 3
Employment_status	RPC	0	1.00	4	Une: 8, Oth: 4, Ful: 1, Par: 1
Employment_status	RPD	0	1.00	3	Une: 6, Oth: 2, Par: 2, Ful: 0
Employment_status	STIG	0	1.00	4	Une: 22, Ful: 20, Par: 7, Oth: 1
ART_currently	DD	0	1.00	2	Yes: 58, No: 2
ART_currently	NM	3	0.99	2	Yes: 131, No: 106
ART_currently	RESI	1	0.99	2	Yes: 95, No: 3
ART_currently	RPA	0	1.00	2	Yes: 18, No: 2
ART_currently	RPB	0	1.00	1	Yes: 102, No: 0
ART_currently	RPC	0	1.00	2	No: 12, Yes: 2
ART_currently	RPD	0	1.00	2	No: 6, Yes: 4
ART_currently	STIG	1	0.98	1	Yes: 49, No: 0
Education	DD	2	0.97	3	Sec: 40, Pri: 9, Ter: 9
Education	NM	27	0.89	3	Sec: 160, Pri: 45, Ter: 8
Education	RESI	4	0.96	3	Sec: 61, Pri: 19, Ter: 15
Education	RPA	0	1.00	3	Sec: 14, Pri: 5, Ter: 1
Education	RPB	2	0.98	3	Sec: 74, Ter: 15, Pri: 11
Education	RPC	0	1.00	3	Sec: 11, Ter: 2, Pri: 1
Education	RPD	0	1.00	3	Sec: 7, Ter: 2, Pri: 1
Education	STIG	2	0.96	3	Sec: 26, Ter: 13, Pri: 9

Variable type: numeric

skim_variable	ID	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100
Age	DD	0	1.00	38.63	5.87	27	34.00	38.5	42.00	58
Age	NM	6	0.98	36.79	8.56	20	31.00	36.0	41.00	76
Age	RESI	0	1.00	43.33	9.36	19	35.00	42.0	49.00	66
Age	RPA	0	1.00	30.35	3.70	22	28.75	31.0	33.00	36
Age	RPB	1	0.99	31.18	4.79	20	28.00	31.0	35.00	40
Age	RPC	1	0.93	29.77	4.62	23	27.00	29.0	32.00	40
Age	RPD	0	1.00	29.60	5.42	21	25.50	30.0	33.25	37
Age	STIG	0	1.00	44.90	9.67	25	37.25	44.5	52.50	65
CD4_recent	DD	18	0.70	428.60	255.93	16	256.00	374.5	577.25	1095
CD4_recent	NM	37	0.85	230.86	218.78	1	104.50	187.0	309.50	2000
CD4_recent	RESI	16	0.84	529.69	800.31	11	256.50	405.0	651.00	7300
CD4_recent	RPA	0	1.00	163.40	84.13	26	106.25	162.5	220.25	313
CD4_recent	RPB	3	0.97	385.16	214.73	50	224.50	327.0	501.50	1040

skim_variable	ID	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100
CD4_recent	RPC	1	0.93	197.08	61.50	101	166.00	175.0	246.00	305
CD4_recent	RPD	0	1.00	189.20	54.84	133	152.50	173.0	202.75	295
CD4_recent	STIG	24	0.52	482.88	292.90	50	291.00	434.5	582.00	1138

Session information

sessionInfo()

```
## R version 3.6.3 (2020-02-29)
## Platform: x86_64-apple-darwin15.6.0 (64-bit)
## Running under: macOS Catalina 10.15.4
## Matrix products: default
         /Library/Frameworks/R.framework/Versions/3.6/Resources/lib/libRblas.0.dylib
## BLAS:
## LAPACK: /Library/Frameworks/R.framework/Versions/3.6/Resources/lib/libRlapack.dylib
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
## attached base packages:
## [1] stats
                graphics grDevices utils
                                               datasets methods
                                                                   base
##
## other attached packages:
## [1] knitr 1.28
                           skimr 2.1
                                              forcats 0.5.0
                                                                 stringr 1.4.0
## [5] dplyr_0.8.5
                                                                 tidyr_1.0.2
                           purrr 0.3.3
                                              readr 1.3.1
## [9] tibble_3.0.0
                           ggplot2_3.3.0.9000 tidyverse_1.3.0
##
## loaded via a namespace (and not attached):
## [1] tidyselect_1.0.0 xfun_0.12
                                          repr_1.1.0
                                                           haven_2.2.0
## [5] lattice 0.20-38 colorspace 1.4-1 vctrs 0.2.4
                                                           generics 0.0.2
## [9] htmltools 0.4.0 base64enc 0.1-3 yaml 2.2.1
                                                           utf8 1.1.4
## [13] rlang_0.4.5
                         pillar_1.4.3
                                          withr_2.1.2
                                                           glue_1.3.2
## [17] DBI_1.1.0
                         dbplyr_1.4.2
                                          modelr_0.1.6
                                                           readxl_1.3.1
## [21] lifecycle_0.2.0 munsell_0.5.0
                                          gtable_0.3.0
                                                           cellranger_1.1.0
## [25] rvest_0.3.5
                         evaluate_0.14
                                          fansi_0.4.1
                                                           highr_0.8
## [29] broom_0.5.5
                         Rcpp_1.0.4
                                          backports_1.1.5
                                                           scales_1.1.0
## [33] jsonlite_1.6.1
                         fs_1.3.1
                                          hms_0.5.3
                                                           digest_0.6.25
## [37] stringi_1.4.6
                         grid_3.6.3
                                          cli_2.0.2
                                                           tools_3.6.3
## [41] magrittr_1.5
                         crayon_1.3.4
                                          pkgconfig_2.0.3 ellipsis_0.3.0
## [45] xml2_1.3.0
                         reprex_0.3.0
                                          lubridate_1.7.4
                                                           assertthat_0.2.1
## [49] rmarkdown 2.1
                         httr 1.4.1
                                          rstudioapi 0.11 R6 2.4.1
## [53] nlme_3.1-145
                         compiler_3.6.3
```