Supplement 1

Demographics

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1 Import and check data

```
# Import
demo <- read_rds('data-cleaned/data-demographics.rds')</pre>
# Check
## Demographics
dim(demo)
## [1] 596
names (demo)
## [1] "ID"
                                                 "Sex"
## [4] "Age"
                            "Employment_status" "CD4_recent"
## [7] "ART_currently"
                            "Education"
glimpse(demo)
## Rows: 596
## Columns: 8
## $ ID
                        <chr> "RPB73", "RPB74", "RPB75", "RPB76", "RPB77", "RPB...
                       <chr> "RP", "RP", "RP", "RP", "RP", "RP", "RP", "RP", "RP", "...
## $ Site
## $ Sex
                       <chr> "Female", "Female", "Female", "Female", "Female", ...
## $ Age
                        <dbl> 36, 27, 39, 36, 31, 32, 28, 37, 31, 25, 31, 24, 3...
```

2 Basic descriptive statistics

2.1 Full cohort

2.1.1 Descriptives

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

Table 1: Data summary

Name Number of rows Number of columns	Piped data 596 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: 481, Mal: 115
Employment_status	49	0.92	4	Une: 330, Ful: 131, Par: 52, Oth: 34
ART_currently	5	0.99	2	Yes: 460, No: 131
Education	37	0.94	3	Sec: 395, Pri: 99, Ter: 65

Variable type: numeric

skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100
Age	8	0.99	37.28	9.06	19	31	36	42	76
CD4_recent	99	0.83	320.71	238.92	1	155	261	432	1232

2.2 By study site

2.2.1 Sample size

```
demo %>%

# Select ID

select(Site) %>%

# Group by study site

group_by(Site) %>%

summarise(Count = n()) %>%

kable(caption = 'Sample size by study site')
```

Table 4: Sample size by study site

Site	Count
DD	60
NM	239
RESI	99
RP	148
STIG	50

2.2.2 Descriptives

```
demo %>%
    # Convert character to factor
    mutate_if(is.character, factor) %>%
    # Remove ID
    select(-ID) %>%
    # Group by site
    group_by(Site) %>%
    skim()
```

Table 5: Data summary

Name	Piped data
Number of rows	596
Number of columns	7
Column type frequency:	_
factor	4
numeric	2
Group variables	 Site
aroup variables	Oilo

Variable type: factor

skim_variable	Site	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: 184, Mal: 55

skim_variable	Site	n_missing	complete_rate	n_unique	top_counts
Sex	RESI	0	1.00	2	Fem: 66, Mal: 33
Sex	RP	0	1.00	1	Fem: 148, 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	0.79	3	Une: 126, Ful: 55, Par: 9, Oth: 0
Employment_status	RESI	0	1.00	4	Une: 47, Ful: 35, Par: 16, Oth: 1
Employment_status	RP	0	1.00	4	Une: 99, Oth: 31, Par: 14, Ful: 4
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: 130, No: 106
ART_currently	RESI	1	0.99	2	Yes: 95, No: 3
ART_currently	RP	0	1.00	2	Yes: 128, No: 20
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: 44, Ter: 8
Education	RESI	4	0.96	3	Sec: 61, Pri: 19, Ter: 15
Education	RP	2	0.99	3	Sec: 108, Ter: 20, Pri: 18
Education	STIG	2	0.96	3	Sec: 26, Ter: 13, Pri: 9

Variable type: numeric

skim_variable	Site	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	0.97	36.73	8.54	20	31.00	36.0	41.00	76
Age	RESI	0	1.00	43.40	9.32	19	35.00	42.0	49.00	66
Age	RP	2	0.99	30.82	4.72	20	27.00	31.0	34.00	40
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	222.10	180.15	1	103.75	185.5	308.75	963
CD4_recent	RESI	16	0.84	452.76	278.07	11	256.50	405.0	651.00	1232
CD4_recent	RP	4	0.97	322.19	205.43	26	174.00	270.0	415.00	1040
CD4_recent	STIG	24	0.52	482.88	292.90	50	291.00	434.5	582.00	1138

3 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
## LAPACK: /Library/Frameworks/R.framework/Versions/3.6/Resources/lib/libRlapack.dylib
##
## [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
                           purrr_0.3.3
                                              readr_1.3.1
                                                                 tidyr_1.0.2
## [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
                                          backports_1.1.5
                         Rcpp_1.0.4
                                                           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
```