Codebook for Publicly Available META Study Dataset
The Measuring Early Treatment Adherence (META) study

---
studyid — Participant's unique identifier
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type: string (str8), but longest is str7

unique values: 904 — missing "": 0/2,694

examples: "MCT2121"
"MCT3277"
"MTA1215"
"MTA2501"

---
sa — Country
---

type: numeric (float)
label: sa

range: [0,1] — units: 1
unique values: 2 — missing .: 0/2,694

tabulation:

Freq.	Numeric	Label
1,433	0	Mbarara
1,261	1	Cape Town

---
group — Group placement
---

type: numeric (byte)
label: group

range: [1,3] — units: 1
unique values: 3 — missing .: 0/2,694

tabulation:

Freq.	Numeric	Label
1,005	1	early initiators
607	2	pregnant
1,082	3	late initiators

---
age_calculation — Age at study enrollment
---

type: numeric (byte)

range: [0,67] — units: 1
unique values: 50 — missing .: 0/2,694

mean: 32.5475
std. dev: 9.55574

percentiles:

10%	25%	50%	75%	90%
22	26	31	38	46

---
female — D4. Gender
---

type: numeric (float)
label: yesno

```
              range:  [0,1]                       units:  1
        unique values:  2                       missing .:  0/2,694

           tabulation:  Freq.   Numeric  Label
                          837         0  No
                        1,857         1  Yes

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married                                                                                                                  Is participant married to one or more partners?
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                 type:  numeric (float)
                label:  yesno

              range:  [0,1]                       units:  1
        unique values:  2                       missing .:  18/2,694

           tabulation:  Freq.   Numeric  Label
                        1,692         0  No
                          984         1  Yes
                           18         .

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heduc_sec                                                                                                                  Secondary as highest level of education
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                 type:  numeric (float)
                label:  yesno

              range:  [0,1]                       units:  1
        unique values:  2                       missing .:  18/2,694

           tabulation:  Freq.   Numeric  Label
                          732         0  No
                        1,944         1  Yes
                           18         .

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employed                                                                                                                Is participant in paid or non paid employment or school
-------------------------------------------------------------------------------------------------------------------------------------------------------------

                 type:  numeric (float)
                label:  yesno

              range:  [0,1]                       units:  1
        unique values:  2                       missing .:  18/2,694

           tabulation:  Freq.   Numeric  Label
                          963         0  No
                        1,713         1  Yes
                           18         .

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cd4_count                                                                                                 2. Based on the prescription form, what is the participant's most recent CD4 cou
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                 type:  numeric (int)

              range:  [1,1382]                    units:  1
        unique values:  437                     missing .:  265/2,694

                 mean:   344.609
            std. dev:   226.326

          percentiles:        10%       25%       50%       75%       90%
                               61       143       383       471       621

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blogvl                                                                                                                                  Baseline viral load (log)
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                 type:  numeric (float)
```

```
               range:  [1.5185139,6.967731]         units:  1.000e-07
        unique values:  833                      missing .:  9/2,694

                mean:   4.21565
            std. dev:   1.18146

          percentiles:        10%       25%       50%       75%       90%
                           2.42975   3.56015    4.4463   5.03931   5.50566
```

---

firstpostv_over30 — Was first HIV positive test conducted over 30 days before enrollment?

```
                type:  numeric (float)
               label:  yesno

               range:  [0,1]                        units:  1
        unique values:  2                        missing .:  358/2,694

           tabulation:  Freq.   Numeric  Label
                        1,097         0  No
                        1,239         1  Yes
                          358         .
```

---

literate — Literate in English or local language

```
                type:  numeric (float)
               label:  yesno

               range:  [0,1]                        units:  1
        unique values:  2                        missing .:  36/2,694

           tabulation:  Freq.   Numeric  Label
                          237         0  No
                        2,421         1  Yes
                           36         .
```

---

can_read_english — 6a. Able to read English

```
                type:  numeric (byte)
               label:  yesno

               range:  [0,1]                        units:  1
        unique values:  2                        missing .:  18/2,694

           tabulation:  Freq.   Numeric  Label
                          912         0  No
                        1,764         1  Yes
                           18         .
```

---

can_read_local — 6b. Able to read Runyankole:

```
                type:  numeric (byte)
               label:  yesno

               range:  [0,1]                        units:  1
        unique values:  2                        missing .:  36/2,694

           tabulation:  Freq.   Numeric  Label
                          330         0  No
                        2,328         1  Yes
                           36         .
```

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enrollment_date — Study enrollment date

```
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                type:  numeric daily date (float)

               range:  [20152,20726]                 units:  1
     or equivalently:  [05mar2015,29sep2016]         units:  days
       unique values:  325                       missing .:  0/2,694

                mean:   20438.9 = 16dec2015 (+ 23 hours)
           std. dev:   149.184

         percentiles:        10%       25%       50%       75%       90%
                           20255     20306     20422     20573     20648
                       16jun2015 06aug2015 30nov2015 29apr2016 13jul2016

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visno                                                                                                                                                                                        Visit type
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

                type:  numeric (float)
               label:  visno

               range:  [0,2]                         units:  1
       unique values:  3                         missing .:  9/2,694

          tabulation:  Freq.   Numeric  Label
                         895         0  Baseline
                         895         1  Month6
                         895         2  Month12
                           9         .

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suppressed_impute                                                                                                                  Virally suppressed (VL<400) considering the lost + died as unsuppressed.
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

                type:  numeric (float)
               label:  yesno

               range:  [0,1]                         units:  1
       unique values:  2                         missing .:  48/2,694

          tabulation:  Freq.   Numeric  Label
                       1,089         0  No
                       1,557         1  Yes
                          48         .

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smoke_cigarette                                                                                                                                                       Have you ever smoked cigarettes?
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

                type:  numeric (byte)
               label:  freq_drug

               range:  [0,2]                         units:  1
       unique values:  3                         missing .:  228/2,694

          tabulation:  Freq.   Numeric  Label
                       2,059         0  Never
                         183         1  Yes-formerly
                         224         2  Yes-now
                         228         .

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smoke_marijuana                                                                                                                                                        Have you ever smoked marijuana?
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

                type:  numeric (byte)
               label:  freq_drug

               range:  [0,2]                         units:  1
       unique values:  3                         missing .:  228/2,694
```

```
            tabulation:  Freq.   Numeric  Label
                         2,387         0  Never
                            59         1  Yes-formerly
                            20         2  Yes-now
                           228         .
```

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auditc_yesno — Audit score>3 and female or auditc score>4 and male

---

```
                  type:  numeric (float)
                 label:  yesno

                 range:  [0,1]                    units:  1
         unique values:  2                        missing .:  229/2,694

            tabulation:  Freq.   Numeric  Label
                         2,064         0  No
                           401         1  Yes
                           229         .
```

---

other_meds_besides_art — 4. Is the patient taking other medications besides ART?

```
                  type:  numeric (byte)
                 label:  yesno

                 range:  [0,1]                    units:  1
         unique values:  2                        missing .:  265/2,694

            tabulation:  Freq.   Numeric  Label
                         1,014         0  No
                         1,415         1  Yes
                           265         .
```

---

regular_income — 3. Do you yourself have a regular income?

```
                  type:  numeric (byte)
                 label:  yesno

                 range:  [0,1]                    units:  1
         unique values:  2                        missing .:  221/2,694

            tabulation:  Freq.   Numeric  Label
                         1,720         0  No
                           753         1  Yes
                           221         .
```

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running_water — 1a. Is there running water?

```
                  type:  numeric (byte)
                 label:  yesno

                 range:  [0,1]                    units:  1
         unique values:  2                        missing .:  221/2,694

            tabulation:  Freq.   Numeric  Label
                           832         0  No
                         1,641         1  Yes
                           221         .
```

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annual_income_usd — Total annual income in USD at 2015 exchange rate

---

```
                  type:  numeric (float)
```

```
            range:  [0,28215.377]               units:  1.000e-10
      unique values:  225                       missing .:  221/2,694

             mean:   1075.76
         std. dev:   1804.66

      percentiles:        10%       25%       50%       75%       90%
                            0         0    370.37   1410.77   3197.74
```

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annual_spent_usd — Total annual expendicture in USD at 2015 exchange rate

---

```
            type:  numeric (float)

            range:  [0,5.839e+08]               units:  1.000e-07
      unique values:  900                       missing .:  249/2,694

             mean:    240219
         std. dev:   1.2e+07

      percentiles:        10%       25%       50%       75%       90%
                            0   291.559   940.513   1815.19   2915.59
```

PCS_12 — MOSHIV12 Physical health score

```
            type:  numeric (float)

            range:  [16.461403,65.209824]       units:  1.000e-06
      unique values:  1,391                     missing .:  262/2,694

             mean:   41.5499
         std. dev:   6.54901

      percentiles:        10%       25%       50%       75%       90%
                       34.4069   38.1599   40.8773   44.2702   50.2356
```

MCS_12 — MOSHIV12 Mental health score

```
            type:  numeric (float)

            range:  [7.5740099,64.59005]        units:  1.000e-07
      unique values:  1,391                     missing .:  262/2,694

             mean:   46.5395
         std. dev:   11.5494

      percentiles:        10%       25%       50%       75%       90%
                       29.9994   37.8611   48.7673   56.6952   59.4872
```

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fi_severe — Severe food insecurity

```
            type:  numeric (float)
           label:  yesno

            range:  [0,1]                       units:  1
      unique values:  2                         missing .:  223/2,694

         tabulation:  Freq.   Numeric  Label
                     1,474         0  No
                       997         1  Yes
                       223         .
```

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denial_score — Denial score

```
                type:  numeric (float)

               range:  [2,8]                        units:  1
        unique values:  7                           missing .:  264/2,694

           tabulation:  Freq.  Value
                        1,610  2
                          234  3
                          237  4
                          131  5
                          112  6
                           52  7
                           54  8
                          264  .
```

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coping_score_wr — Maladaptive coping score

```
                type:  numeric (float)

               range:  [1,3.5714285]                units:  1.000e-07
        unique values:  19                          missing .:  264/2,694

                mean:   2.28336
            std. dev:   .330279

          percentiles:        10%       25%       50%       75%       90%
                          1.85714   2.14286   2.28571   2.42857   2.71429
```

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struct_barrier_score — Structural barrier score

```
                type:  numeric (float)

               range:  [0,38]                       units:  1
        unique values:  35                          missing .:  227/2,694

                mean:   4.54682
            std. dev:   6.93497

          percentiles:        10%       25%       50%       75%       90%
                                0         0         0         8        16
```

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sex_money — In the past 6 months, have you had sex because your partner gave you or you expe

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```
                type:  numeric (int)
               label:  yesnorefused

               range:  [0,999]                      units:  1
        unique values:  3                           missing .:  223/2,694

           tabulation:  Freq.   Numeric  Label
                        2,318         0  No
                          150         1  Yes
                            3       999  Refused
                          223         .
```

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forced_sex — Has anyone ever physically forced you to have sex when you did not want to?

```
                type:  numeric (int)
               label:  yesnorefused

               range:  [0,999]                      units:  1
        unique values:  5                           missing .:  223/2,694
```

tabulation:	Freq.	Numeric	Label
	2,168	0	No
	90	1	Yes
	207	2	No partner in referent period
	5	888	Do not know
	1	999	Refused
	223	.	

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slapped — Have any of your sexual partners ever Pushed, pulled, slapped, or held you down?

---

type:	numeric (int)		
label:	yesnorefused		
range:	[0,999]	units:	1
unique values:	5	missing .:	1,045/2,694

tabulation:	Freq.	Numeric	Label
	1,407	0	No
	107	1	Yes
	133	2	No partner in referent period
	1	888	Do not know
	1	999	Refused
	1,045	.	

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told_anyone — 13. Since you were diagnosed with HIV, have you ever told anyone that you are HI

---

type:	numeric (int)		
label:	yesno		
range:	[0,999]	units:	1
unique values:	3	missing .:	222/2,694

tabulation:	Freq.	Numeric	Label
	321	0	No
	2,150	1	Yes
	1	999	Refused
	222	.	

---

disclosed_hh — Has participant disclosed HIV status to people in the home s/he usually live in.

---

type:	numeric (float)		
label:	yesno		
range:	[0,1]	units:	1
unique values:	2	missing .:	223/2,694

tabulation:	Freq.	Numeric	Label
	414	0	No
	2,057	1	Yes
	223	.	

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disclosed_outside_hh — 15. Have you disclosed to anyone outside your household?

---

type:	numeric (byte)		
label:	yesno		
range:	[0,1]	units:	1
unique values:	2	missing .:	223/2,694

tabulation:	Freq.	Numeric	Label
	952	0	No
	1,519	1	Yes
	223	.	

stigma_pna — Perceived negative attitudes score

type:	numeric (float)		
range:	[0,5]	units:	1
unique values:	6	missing .:	222/2,694

tabulation:

Freq.	Value
789	0
257	1
204	2
357	3
442	4
423	5
222	.

stigma_dc — Disclosure concerns score

type:	numeric (float)		
range:	[0,7]	units:	1
unique values:	8	missing .:	222/2,694

tabulation:

Freq.	Value
489	0
283	1
204	2
201	3
207	4
326	5
446	6
316	7
222	.

satisfaction_score — Clinic satisfaction score

type:	numeric (float)		
range:	[1.6153846,4]	units:	1.000e-07
unique values:	32	missing .:	224/2,694
mean:	3.47913		
std. dev:	.494778		

percentiles:

10%	25%	50%	75%	90%
2.84615	3	3.53846	4	4

necessity_score — Necessity of taking ART score

type:	numeric (float)		
range:	[.875,4.875]	units:	.001
unique values:	28	missing .:	222/2,694
mean:	3.99373		
std. dev:	.466406		

percentiles:

10%	25%	50%	75%	90%
3.625	3.625	3.875	4.375	4.5

necessity_tert — Necessity of taking ART score - tertiles

```
                type:  numeric (float)
               label:  tertile

               range:  [0,2]                        units:  1
        unique values:  3                           missing .:  222/2,694

           tabulation:  Freq.   Numeric  Label
                          667         0  low
                          934         1  medium
                          871         2  high
                          222         .
```

---

concerns_score — Concerns about taking ART score

```
                type:  numeric (float)

               range:  [1,4.6363635]                units:  1.000e-07
        unique values:  40                          missing .:  222/2,694

                mean:   2.38692
           std. dev:   .575183

          percentiles:        10%       25%       50%       75%       90%
                          1.36364   2.09091   2.36364   2.72727   3.09091
```

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concerns_tert — Concerns about taking ART score - tertiles

```
                type:  numeric (float)
               label:  tertile

               range:  [0,2]                        units:  1
        unique values:  3                           missing .:  222/2,694

           tabulation:  Freq.   Numeric  Label
                          646         0  low
                          991         1  medium
                          835         2  high
                          222         .
```

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depressbi — Depression score >=1.75

```
                type:  numeric (float)
               label:  yesno

               range:  [0,1]                        units:  1
        unique values:  2                           missing .:  223/2,694

           tabulation:  Freq.   Numeric  Label
                        1,914         0  No
                          557         1  Yes
                          223         .
```

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mistrust_score — Medical mistrust score

```
                type:  numeric (float)

               range:  [1,4]                        units:  .01
        unique values:  13                          missing .:  222/2,694

                mean:   1.90807
           std. dev:   .690617

          percentiles:        10%       25%       50%       75%       90%
                                1         1         2      2.25      2.75
```

```
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conspiracy_score                                                                                                                                                  Medical conspiracy score
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                 type:  numeric (float)

                range:  [1,4]                       units:  1.000e-07
        unique values:  19                     missing .:  289/2,694

                 mean:   2.01719
             std. dev:    .62901

          percentiles:        10%       25%       50%       75%       90%
                                1      1.75         2       2.5      2.75

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sexually_active                                                                                                                                  Has had a sexual partner(s) in past 6 months
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                 type:  numeric (float)
                label:  yesno

                range:  [0,1]                       units:  1
        unique values:  2                      missing .:  225/2,694

           tabulation:  Freq.   Numeric  Label
                          454         0  No
                        2,015         1  Yes
                          225         .

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ave_v                                                                                                                  Average visit adherence censoring technical failures (no hb/no event + reported
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

                 type:  numeric (float)

                range:  [0,100]                     units:  1.000e-08
        unique values:  1,241                  missing .:  991/2,694

                 mean:   69.6813
             std. dev:   31.5783

          percentiles:        10%       25%       50%       75%       90%
                           13.6095   49.2754   82.8729   95.2941    98.895

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num7_v                                                                                                                  Number of 7 day gaps per visit censoring technical failures (no hb/no event + re
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

                 type:  numeric (float)

                range:  [0,12]                      units:  1
        unique values:  13                     missing .:  1,000/2,694

                 mean:   1.23377
             std. dev:   1.93507

          percentiles:        10%       25%       50%       75%       90%
                                0         0         0         2         4

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ave_p                                                                                                                                                  Average Wisepilll adherence over course of follow-up
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                 type:  numeric (float)

                range:  [.4854369,100]              units:  1.000e-07
        unique values:  776                    missing .:  87/2,694

                 mean:   69.4662
             std. dev:   29.3092
```

```
          percentiles:        10%       25%       50%       75%       90%
                           19.2635   49.8638   80.2589   94.0054    98.103

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num7_p                                                                                                   Number of 7 day gaps per participant censoring technical failures (no hb/no even
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                  type:  numeric (float)

                 range:  [0,21]                      units:  1
         unique values:  17                      missing .:  993/2,694

                  mean:   2.42328
              std. dev:   3.30946

          percentiles:        10%       25%       50%       75%       90%
                                0         0         1         4         7

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n_p                                                                                                                                  Number of days per visit
-------------------------------------------------------------------------------------------------------------------------------------------------------------

                  type:  numeric (float)

                 range:  [27,375]                    units:  1
         unique values:  126                     missing .:  991/2,694

                  mean:   349.483
              std. dev:    48.757

          percentiles:        10%       25%       50%       75%       90%
                               325       357       366       368       368

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status                                                                                                                                 Follow-up status at study end
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                  type:  numeric (float)
                 label:  status

                 range:  [1,4]                       units:  1
         unique values:  4                       missing .:  0/2,694

            tabulation:  Freq.   Numeric  Label
                         2,415         1  Graduated
                           108         2  Died
                            84         3  Disenrolled
                            87         4  LFTU

.
```