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

```
obs:       298,398
vars:            14                          14 Mar 2023 14:40
size:    82,656,246
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              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------------------------------------------------------------------------------
studyid         str7    %9s                   Study identifier
date            int     %9.0g                 Deidentified date
hb              byte    %11.0g     hb         Heart/event present ?
sa              byte    %9.0g                 South Africa?
non_use_cause   byte    %17.0g     cause_of_non_use
                                              Reason for device nonuse
other_cause     str49   %49s                  other_cause
participant_b~n byte    %32.0g     participant_based_reason
                                              Participant reported reason for device nonuse
participant_r~r str200  %200s                 Participant reported reason for device nonuse other specified
fupm            float   %9.0g                 Followup in months
d_adh           byte    %9.0g                 Daily adherence without censoring
d_adhc          byte    %9.0g                 Daily adherence with primary censoring*
d_adhc1         byte    %9.0g                 Daily adherence with secondary censoring*
gap_duration_~1 float   %9.0g                 Duration of gaps with secondary censoring*
gap_duration_~c float   %9.0g                 Duration of gaps with primary censoring*
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*Primary censoring: censoring of days with no heartbeat and no event + non-participart reported device failure"
Secondary censoring: primary censoring + censoring of days for which participant reported device failure"


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studyid                                                                                                                          Study identifier
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                  type:  string (str7)

         unique values:  869                      missing "":  0/298,398

              examples:  "MCT2154"
                         "MCT3316"
                         "MTA1235"
                         "MTA2527"

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date                                                                                                                             Deidentified date
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                  type:  numeric (int)
```

```
                range:  [0,938]                     units:  1
        unique values:  939                     missing .:  0/298,398

                 mean:   467.616
              std. dev:   181.976

           percentiles:        10%       25%       50%       75%       90%
                               226       332       465       599       717
```

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hb — Heart/event present ?

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

                range:  [1,4]                       units:  1
        unique values:  4                       missing .:  0/298,398

           tabulation:  Freq.   Numeric  Label
                        83,596         1  hb no event
                        10,248         2  event no hb
                       194,960         3  both
                         9,594         4  neither
```

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sa — South Africa?

```
                 type:  numeric (byte)

                range:  [0,1]                       units:  1
        unique values:  2                       missing .:  0/298,398

           tabulation:  Freq.  Value
                       165,354  0
                       133,044  1
```

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non_use_cause — Reason for device nonuse

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

                range:  [1,99]                      units:  1
        unique values:  4                       missing .:  294,147/298,398
```

```
            tabulation:  Freq.   Numeric  Label
                           457         1  participant based
                           530         2  lost/stolen
                         3,109         3  device problem
                           155        99  other
                       294,147         .
```

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other_cause — other_cause

```
                  type:  string (str49)

         unique values:  7                       missing "":  294,147/298,398

            tabulation:  Freq.  Value
                       294,147  ""
                         4,096  "---"
                             6  "Battery shutdown"
                             6  "Device battery had run so low"
                            22  "Device battery run low"
                            58  "Device got burnt in the house"
                             3  "House burgled,wisepill taken including
                                medication"
                            60  "Participant forgot the device at the
                                pharmacy"

               warning:  variable has embedded blanks
```

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participant_based_reason — Participant reported reason for device nonuse

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

                 range:  [1,99]                      units:  1
         unique values:  4                       missing .:  297,926/298,398

            tabulation:  Freq.   Numeric  Label
                           360         1  travel without device
                            53         2  concern about being seen with it
                            31         3  device left intentionally
                            28        99  other
                       297,926         .
```

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participant_reason_other — Participant reported reason for device nonuse other specified

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```
                 type:  string (str200)

         unique values:  3                        missing "":  294,147/298,398

            tabulation:  Freq.  Value
                       294,147  ""
                         4,223  "---"
                            12  "Participant claimed to have tested
                                negative on May 05, from a small clinic
                                and was consequently asked to stop
                                taking ART by a nurse from the same
                                clinic. She informed the RA by phone on
                                May 17, 2015 ."
                            16  "Participant left the device with a
                                friend to help her pick medicine"

               warning:  variable has embedded blanks

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fupm                                                                                          Participant total followup time in months
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                 type:  numeric (float)

                range:  [.8870637,12.254621]         units:  1.000e-07
         unique values:  123                      missing .:  0/298,398

                 mean:   11.6162
              std. dev:   1.14083

           percentiles:        10%       25%       50%       75%       90%
                           11.1376   11.7618   11.9589   12.0246   12.0246

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d_adh                                                                                                  Daily adherence without censoring
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                 type:  numeric (byte)

                range:  [0,100]                      units:  10
         unique values:  3                        missing .:  0/298,398

            tabulation:  Freq.  Value
                        93,190  0
                         1,240  50
                       203,968  100

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```

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d_adhc                                                Daily adherence with primary censoring ie censoring days with no heartbeat and n
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                  type:  numeric (byte)

                 range:  [0,100]                      units:  10
         unique values:  3                        missing .:  10,075/298,398

            tabulation:  Freq.  Value
                        83,521  0
                         1,240  50
                       203,562  100
                        10,075  .

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d_adhc1                                               Daily adherence with secondary censoring: primary censoring + participant report
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                  type:  numeric (byte)

                 range:  [0,100]                      units:  10
         unique values:  3                        missing .:  10,820/298,398

            tabulation:  Freq.  Value
                        82,967  0
                         1,238  50
                       203,373  100
                        10,820  .

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gap_duration_days_c1                                    Duration of gaps with primary censoring + participant reported device failure
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                  type:  numeric (float)

                 range:  [.00084491,281.94238]        units:  1.000e-10
         unique values:  55,891                   missing .:  83,836/298,398

                  mean:   1.34187
             std. dev:   3.26258

           percentiles:        10%       25%       50%       75%       90%
                            .95169   .989398   1.00101   1.03208   1.55736

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gap_duration_days_c                                   Duration of gaps with censoring for device technical failure (no hb no event + r
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                  type:  numeric (float)
```

```
        range:  [.00084491,281.94238]        units:  1.000e-10
unique values:  55,877                   missing .:  84,390/298,398

         mean:   1.34528
     std. dev:   3.27693

  percentiles:        10%       25%       50%       75%       90%
                 .951655   .989352   1.00105   1.03227   1.56272
```