

Data Validation Exercise before Entry into UCSR

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February 26, 2018

Abstract

Summary. This is a document to validate and check variables before they are integrated into the UCSR.

1 High-level codebook for all variables

disease	Disease
---------	---------

type: numeric (long)
label: disease

range: [1,1] units: 1
unique values: 1 missing .: 0/138

tabulation:	Freq.	Numeric	Label
	138	1	HIV

collapsed	Collapsed
-----------	-----------

type: numeric (float)
label: collapsed

range: [0,0] units: 1
unique values: 1 missing .: 0/138

tabulation:	Freq.	Numeric	Label
	138	0	No

lead_author	Lead Author
-------------	-------------

type: string (str59), but longest is str21

unique values: 22 missing "": 0/138

examples: "Bautista-Arredondo, S"
 "Larson, B"
 "Rosen, S"
 "Settumba, S"

warning: variable has embedded blanks

ref_year	Reference Year
----------	----------------

type: numeric (int)

range: [2008,2016] units: 1
 unique values: 8 missing .: 0/138

tabulation: Freq. Value

27	2008
6	2009
14	2011
4	2012
21	2013
31	2014
33	2015
2	2016

output_unit2	Output unit
--------------	-------------

type: numeric (long)

label: output_unit2

range: [2,3] units: 1
 unique values: 2 missing .: 0/138

tabulation: Freq. Numeric Label

5	2	patient visit
133	3	patient year

title	Title
-------	-------

type: string (str214)

unique values: 23 missing "": 0/138

examples: "Costing Analysis of National HIV Treatment and Care
 Program in Vietnam"
 "Costs of HIV/AIDS treatment in Indonesia by time of
 treatment and stage of disease"
 "Monitoring of HIV viral load, CD4 cell count, and

clinical assessment versus clinical monitoring alone
for antiretroviral therapy in low-resource settings
(Stratall ANRS 12110/ESTHER): a cost-effectiveness
analysis"

"The cost-effectiveness of integrated care for people
living with HIV including antiretroviral treatment in
a primary health care center in Bujumbura, Burundi"

warning: variable has embedded and trailing blanks

journal_etc	Journal
-------------	---------

type: string (str57)

unique values: 23 missing "": 0/138

examples: "BMC Health Serv Res. 2015; 15: 440"
"J Acquir Immune Defic Syndr. 2014 Jan 1;65(1):e1-7"
"PLoS Med. 2011 Sep;8(9):e1001095"
"Trop Med Int Health. 2008 Aug;13(8):1005-15"

warning: variable has embedded blanks

url	URL
-----	-----

type: string (str97), but longest is str79

unique values: 23 missing "": 0/138

examples: "<<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4590258/>>."
"<<https://www.ncbi.nlm.nih.gov/pubmed/18631314>>."
"<<https://www.ncbi.nlm.nih.gov/pubmed/21765366>>."
"<<https://www.ncbi.nlm.nih.gov/pubmed/23846564>>."



iso_name	Country
----------	---------

type: string (str30), but longest is str14

unique values: 18 missing "": 0/138


examples: "Indonesia"
"Lesotho"
"South Africa"
"Uganda"



warning: variable has embedded blanks

location	Location
----------	----------

type: string (str55)

unique values: 25 missing "": 2/138 

examples: "Bujumbura"
"Gauteng Province"
"Mexico City, Cuernavaca, Guadalajara"
"mixed"

warning: variable has embedded and trailing blanks

no_sites	Sites
----------	-------

type: string (str2)


unique values: 13 missing "": 0/138

examples: "1"
"1"
"11"
"3"

pop_density	Urbanicity
-------------	------------

type: numeric (long)
label: pop_density, but 1 nonmissing value is not labeled


range: [1,5] units: 1
unique values: 5 missing .: 0/138

tabulation:	Freq.	Numeric	Label	
	2	1	.	
	40	2	mixture	
	2	3	peri-urban	
	23	4	rural	
	71	5	urban	

ownership	Ownership
-----------	-----------

type: numeric (long)
label: ownership

range: [1,5] units: 1
unique values: 5 missing .: 10/138

tabulation:	Freq.	Numeric	Label	
	6	1	in-country NGO	
	19	2	international NGO	
	11	3	mixed	
	8	4	private	
	84	5	public	
	10	.		

platform	Platform
----------	----------

```

type: numeric (float)
label: platform

range: [1,5]                units: 1
unique values: 2            missing .: 0/138

```

tabulation:	Freq.	Numeric	Label
	133	1	Fixed facility
	5	5	Other

facility_cat	Platform specificity
--------------	----------------------

```

type: numeric (float)
label: facility_cat

range: [101,501]           units: 1
unique values: 11          missing .: 0/138

```

```

examples: 104  Clinic at hospital (intervention- or disease-specific)
          104  Clinic at hospital (intervention- or disease-specific)
          107  Hospital - Secondary (regional, specialist)
          110  Mix of health care facility types

```

id_class	Intervention Category
----------	-----------------------

```

type: numeric (long)
label: id_class

range: [1,1]                units: 1
unique values: 1            missing .: 0/138

```

tabulation:	Freq.	Numeric	Label
	138	1	Treatment and Care

id_int	Intervention
--------	--------------

```

        type: numeric (long)
        label: id_int

        range: [1,1]
        unique values: 1
        units: 1
        missing .: 0/138

```

```

        tabulation: Freq.  Numeric  Label
                   138      1  Adult ART

```

```

int_description_long                                Intervention Description (Long)

```

```

        type: string (str1165), but longest is str1071

        unique values: 31
        missing "": 0/138

        examples: "ART treatment and support care"
                  "Integrated care center offered out-patient visits,
                  pharmacy and lab services, voluntary counseling and
                  testing, adherence counseling, and psychological,
                  social, and food support"
                  "Patients visited the clinic monthly to take ART, and
                  underwent CD4 cell count, viral load, and routine
                  laboratory tests approx every 6 mo."
                  "Standard of care was nurse driven and doctor
                  supported. Patients queued to have their folders
                  retrieved by administrative clerks on arrival for
                  their monthly scheduled appointments. Patients then
                  queued to be seen by a nurse who prescribed their
                  medication and again at the pharmacy where their
                  medication was individually dispensed. In Waiting
                  Times Surveys conducted in similar settings, waiting
                  times for patients range from 20 to 215 min"

        warning: variable has embedded and trailing blanks

```

```

clinical_monitoring                                Clinical monitoring

```

```

        type: string (str62)

        unique values: 20
        missing "": 0/138

        examples: "CD4, VL"
                  "CD4, VL, complete blood count"
                  "CD4, hematology, biochemistry"
                  "yes - details NR"

        warning: variable has embedded blanks

```

demand_generation Demand generation

```
type: numeric (long)
label: demand_generation

range: [1,1] units: 1
unique values: 1 missing .: 0/138

tabulation: Freq. Numeric Label
             138      1 nr
```

counseling_content Counseling content

```
type: numeric (long)
label: counseling_content

range: [1,6] units: 1
unique values: 6 missing .: 0/138

tabulation: Freq. Numeric Label
             3      1 counseling - details nr
            25      2 initial counseling, ongoing
                  counseling
             2      3 none
            75      4 nr
             8      5 ongoing adherence counseling
            25      6 yes - details nr
```



staff_type Staff type & number

```
type: string (str115)

unique values: 20 missing "": 0/138

examples: "NR"
          "Physician (4), Nurse (2), Other - specify:
          Laboratory (1), Other - specify: Administration and
          Cleaning Service (6)"
          "Physician (NR), Nurse (NR)"
          "physician (0.8), nurse (7.7), community health
          worker (5.9), other (2.4)"

warning: variable has leading and embedded blanks
```

supportive_care Supportive care

```
type: string (str60)
```

```

unique values: 11                                missing "": 0/138

examples: "OI prophylaxis"
          "OI treatment"
          "OI treatment"
          "nutritional support, OI prophylaxis, OI treatment"

warning: variable has embedded blanks

```

```

visits                                                    Visit type & number

```

```

type: string (str58), but longest is str41

unique values: 33                                missing "": 0/138

examples: "12/yr"
          "NR"
          "NR"
          "NR"

warning: variable has embedded blanks

```

```

referrals                                                    Referrals

```

```

type: string (str25)

unique values: 4                                missing "": 2/138

tabulation: Freq. Value
              2  ""
             123  "NR"
              8  "Nurse (#NR), Doctor (#NR)"
              1  "yes - hospital"
              4  "yes - social worker"

warning: variable has embedded blanks

```

```

method                                                    Method

```

```

type: numeric (long)
label: method

range: [1,1]                                units: 1
unique values: 1                            missing .: 0/138

tabulation: Freq. Numeric Label
              138         1  n/a

```

id_tech	Technology
---------	------------

```

      type: numeric (long)
      label: id_tech

      range: [1,22]          units: 1
unique values: 19          missing .: 30/138

      examples: 8      TDF + FTC + EFV; TDF + FTC + LPV/r
                17      d4t + 3TC + NVP (most common)
                21      first line; second line
                .

```



treatment_phase	Treatment phase
-----------------	-----------------

```

      type: numeric (long)
      label: treatment_phase

      range: [1,3]          units: 1
unique values: 3          missing .: 0/138

      tabulation: Freq.  Numeric  Label
                  56         1  initiation
                  51         2  initiation and maintenance
                  31         3  maintenance

```

arv_regimen	ARV Regimen
-------------	-------------

```

      type: numeric (long)
      label: arv_regimen

      range: [1,7]          units: 1
unique values: 7          missing .: 0/138

      tabulation: Freq.  Numeric  Label
                  34         1  first line
                  63         2  first line, second line
                   8         3  first line, second line, third
                              line
                   6         4  mixed
                  23         5  nr
                   1         6  second line
                   3         7  yes, details nr

```



treatment	Treatment
-----------	-----------



```

type: string (str122)

unique values: 9                                missing "": 0/138

tabulation: Freq. Value
1 "AZT + 3TC + NVP, D4T+ 3TC+ EFV, D4T +
3TC + NVP or DDI + 3TC + NVP"
6 "AZT+3TC+NVP; d4T+3TC+NVP; AZT+3TC+EFV;
d4T+3TC+EFV; 3TC+ddI+NVP; AZT+3TC+ABC;
d4T+3TC+ABC; d4T+ddI+EFV; AZT+3TC+NFPV;
Other"
4 "EFV + ZDV/3TC; NVP + ZDV/3TC; ABC + TDF
+ LPV/r"
87 "N/A"
1 "TDF ; AZT + 3TC ; LPV+R; ATZ; DRV; 3TC;
FPV; NVP; RTV; RAL; AZT; D4T"
6 "TDF+FTC; AZT+3TC; ABC+3TC; d4T+3TC;
NNRTI or PI; NVP; EFV; LPV/r"
8 "d4T+3TC+EFV; d4T+3TC+NVP;
AZT+ddI+LPV/r"
22 "first line; second line"
3 "yes, details NR"

warning: variable has embedded blanks

```

screening_diagnoses

Screening and diagnosis

```

type: numeric (long)
label: screening_diagnoses

range: [1,3]                                units: 1
unique values: 3                            missing .: 0/138

tabulation: Freq. Numeric Label
51          1 n/a
54          2 nr
33          3 yes, details nr

```

community_awareness

Community awareness

```

type: numeric (long)
label: community_awareness

range: [1,1]                                units: 1
unique values: 1                            missing .: 0/138

tabulation: Freq. Numeric Label
138         1 nr

```

id_activities	Costed activities
---------------	-------------------

```

type: string (str146), but longest is str130
unique values: 19 missing "": 0/138
examples: "adherence support; clinical monitoring; ART
           administration"
           "adherence support; clinical monitoring; ART
           administration; supportive care"
           "clinical monitoring; ART administration"
           "clinical monitoring; ART administration; supportive
           care"
warning: variable has leading and embedded blanks

```

start_month	Start Month
-------------	-------------

```

type: numeric (byte)
label: non_standard, but 5 nonmissing values are not labeled

range: [1,99] units: 1
unique values: 7 missing .: 41/138

tabulation: Freq. Numeric Label
              48         1
              1         2
              15         4
              1         7
              2         8
              6         88 Open
              24         99 Mixed
              41         .

```

start_year	Start Year
------------	------------

```

type: numeric (int)
label: non_standard, but 8 nonmissing values are not labeled

range: [88,2011] units: 1
unique values: 10 missing .: 45/138

examples: 99 Mixed
           2005
           2009
           .

```

end_month End Month

type: numeric (byte)
label: non_standard, but 6 nonmissing values are not labeled

range: [1,99] units: 1
unique values: 8 missing .: 49/138

tabulation:	Freq.	Numeric	Label
	9	1	
	1	2	
	15	3	
	1	6	
	2	7	
	31	12	
	6	88	Open
	24	99	Mixed
	49	.	

end_year End Year

type: numeric (int)
label: non_standard, but 7 nonmissing values are not labeled

range: [88,2011] units: 1
unique values: 9 missing .: 45/138

tabulation:	Freq.	Numeric	Label
	6	88	Open
	24	99	Mixed
	20	2005	
	2	2006	
	9	2007	
	14	2008	
	4	2009	
	7	2010	
	7	2011	
	45	.	

period_portrayed Total Months

type: numeric (double)
label: non_standard, but 10 nonmissing values are not labeled

range: [6,288] units: 1.000e-07
unique values: 11 missing .: 2/138

examples: 12
12

12
36


year_intro	Year introduced at study site
------------	-------------------------------

type: string (str9), but longest is str4

unique values: 5 missing "": 119/138

tabulation: Freq. Value

119	" "
10	"2003"
1	"2005"
2	"2006"
1	"2007"
5	"99"



coverage	Coverage
----------	----------

type: numeric (byte)

range: [.,.] units: .

unique values: 0 missing .: 138/138

tabulation: Freq. Value

138	.
-----	---

id_pop_dem_std	Target group (demographic)
----------------	----------------------------

type: numeric (long)


label: id_pop_dem_std

range: [1,2] units: 1

unique values: 2 missing .: 0/138

tabulation: Freq. Numeric Label

87	1	adults
51	2	general populations



id_pop_clin_std	Target group (clinical)
-----------------	-------------------------

type: numeric (long)

label: id_pop_clin_std

range: [1,1] units: 1

unique values: 1 missing .: 135/138

tabulation:	Freq.	Numeric	Label
	3	1	hiv positive
	135	.	

pop_age	Average Age
---------	-------------

type: string (str31)

unique values: 20 missing "": 0/138

examples: "31-34 (depending on care phase)"
 "35.14"
 "43"
 "NR"

warning: variable has embedded blanks

pop_sex	Gender
---------	--------

type: numeric (long)

label: pop_sex, but 1 nonmissing value is not labeled

range: [1,32] units: 1

unique values: 31 missing : 0/138

examples: 1 .
 2 .4
 9 52% female
 22 70% women

pop_ses	SES
---------	-----

type: string (str25)

unique values: 5 missing "": 0/138

tabulation:	Freq.	Value
	2	"63% earning"
	2	"64.8% above middle income"
	8	"70% worked in agriculture"
	1	"84.1% farmers"
	125	"NR"

warning: variable has embedded blanks

pop_education	Education
---------------	-----------

```

-----
type: string (str93)

unique values: 14                                missing "": 0/138

examples: "31%; 10%; 25% (primary or less)
53%; 52%; 50%
(preporatory or less)
16%; 38% 17% (higher ed.)"
"NR"
"NR"
"NR"

warning: variable has embedded blanks

```

```

-----
hiv_prev                                HIV Prevalence
-----

```

```

type: string (str17)

unique values: 6                                missing "": 0/138

tabulation: Freq. Value
              2  ".003"
              13 ".0045"
              2  ".022"
              20 ".16666666666666667"
              2  ".37"
              99 "NR"

```



```

-----
tb_prev                                TB Prevalence
-----

```

```

type: string (str3)

unique values: 2                                missing "": 0/138

tabulation: Freq. Value
              67 "N/A"
              71 "NR"

```

```

-----
tb_rx_resistance                        TB Drug Resistance
-----

```

```

type: numeric (long)
label: tb_rx_resistance, but 1 nonmissing value is not labeled

range: [1,2]                                units: 1
unique values: 2                            missing .: 0/138

```

tabulation:	Freq.	Numeric	Label
	88	1	.
	50	2	N/A

costing_purpose	Costing Purpose
-----------------	-----------------

```

type: string (str233)

unique values: 23                                missing "": 0/138

examples: "To assess the options and limitations of costs
reduction, improving access, and scaling up services"
"To determine whether the benefits from laboratory
monitoring are large enough to justify the associated
extra cost"
"To inform ART costs specifically in high CD4+ count
(>350) individuals"
"To provide multi-national ART cost data for
investment planning and model inputs"

warning: variable has embedded and trailing blanks

```

timing	Timing
--------	--------

```

type: numeric (long)
label: timing

range: [1,3]                                units: 1
unique values: 3                            missing .: 0/138

tabulation: Freq.  Numeric  Label
              1         1  Cross-sectional
              95         2  cross-sectional
              42         3  longitudinal

```

country_sampling	Country Sampling
------------------	------------------

```

type: numeric (long)
label: country_sampling

range: [1,2]                                units: 1
unique values: 2                            missing .: 26/138

tabulation: Freq.  Numeric  Label
              104         1  N/A
               8         2  purposive
              26         .

```

geo_sampling_incountry	Geographic Area In Country Sampling
------------------------	-------------------------------------

```

      type: numeric (long)
      label: geo_sampling_incountry

      range: [1,5]                units: 1
unique values: 4                missing .: 74/138

```

tabulation:	Freq.	Numeric	Label
	33	1	N/A
	5	3	convenience
	21	4	purposive
	5	5	random
	74	.	

site_sampling	Site Sampling
---------------	---------------

```

      type: numeric (long)
      label: site_sampling

      range: [1,6]                units: 1
unique values: 5                missing .: 63/138

```

tabulation:	Freq.	Numeric	Label
	24	1	N/A
	8	3	convenience
	8	4	entire program
	30	5	purposive
	5	6	random
	63	.	

px_sampling	Patient Sampling
-------------	------------------

```

      type: numeric (long)
      label: px_sampling

      range: [1,4]                units: 1
unique values: 4                missing .: 27/138

```

tabulation:	Freq.	Numeric	Label
	2	1	N/A
	55	2	convenience
	34	3	entire program
	20	4	random
	27	.	

sample_size_derived	Sample size formally derived
---------------------	------------------------------

```

        type: numeric (long)
        label: sample_size_derived

        range: [1,2]
        unique values: 2

        units: 1
        missing .: 91/138

        tabulation: Freq.   Numeric   Label
                     27        1    no
                     20        2    yes
                     91         .

```

```

controlsControls

```

```

        type: numeric (long)
        label: controls

        range: [1,2]
        unique values: 2

        units: 1
        missing .: 77/138

        tabulation: Freq.   Numeric   Label
                     37        1    no
                     24        2    yes
                     77         .

```

```

econ_perspective_actualPerspective

```

```

        type: numeric (long)
        label: econ_perspective_actual

        range: [1,3]
        unique values: 3

        units: 1
        missing .: 0/138

        tabulation: Freq.   Numeric   Label
                     2        1    patient
                    134        2    provider
                     2        3    society

```

```

econ_costingEconomic / Financial

```

```

        type: numeric (long)
        label: econ_costing

        range: [1,2]
        unique values: 2

        units: 1
        missing .: 0/138

        tabulation: Freq.   Numeric   Label

```

93	1	economic
45	2	financial only

real_world	Real World / Per Protocol
------------	---------------------------

```

      type: numeric (long)
      label: real_world

      range: [2,3]                      units: 1
unique values: 2                      missing .: 0/138

      tabulation: Freq.  Numeric  Label
                   28       2    per protocol
                   110      3    real world

```

asd_costs	Above Service Costs Included
-----------	------------------------------

```

      type: numeric (long)
      label: asd_costs

      range: [1,4]                      units: 1
unique values: 4                      missing .: 26/138

      tabulation: Freq.  Numeric  Label
                   1       1    N/A
                   99      2    no costs included
                   3       3    not included
                   9       4    some costs included
                   26      .

```

list_asd_costs	Above Service Cost List
----------------	-------------------------

```

      type: string (str103)

unique values: 5                      missing "": 51/138

      tabulation: Freq.  Value
                   51  ""
                   8   "ART storage at a central facility"
                   1   "Laboratory investigations are requested
                        by providers in the health unit, but
                        done in a central facility"
                   1   "N/A"
                   2   "None"
                   75  "none"

```

warning: variable has embedded blanks



omitted_costs Omitted Costs

type: string (str202), but longest is str150

unique values: 12 missing "": 0/138

examples: "Building/space, Patient costs"
"Patient costs"
"Patient costs"
"Service delivery personnel, Patient costs"

warning: variable has embedded blanks

sensitivity_analysis Sensitivity Analysis

type: numeric (long)
label: sensitivity_analysis

range: [1,3] units: 1

unique values: 3 missing .: 2/138

tabulation:	Freq.	Numeric	Label
	38	1	comprehensive
	16	2	limited
	82	3	none
	2	.	

scale Economies of scale

type: numeric (long)
label: scale

range: [1,3] units: 1

unique values: 3 missing .: 0/138

tabulation:	Freq.	Numeric	Label
	18	1	analyzed
	43	2	discussed
	77	3	ignored

research_costs Research Costs Included

type: numeric (long)
label: research_costs

range: [1,1] units: 1

unique values: 1 missing .: 88/138

tabulation:	Freq.	Numeric	Label
	50	1	excluded
	88	.	

unrelated_costs Unrelated Costs Included

type: numeric (long)
label: unrelated_costs

range: [1,2] units: 1
unique values: 2 missing .: 86/138

tabulation:	Freq.	Numeric	Label
	5	1	no
	47	2	no costs included
	86	.	



overhead Overhead Costs Included

type: numeric (long)
label: overhead, but 1 nonmissing value is not labeled

range: [1,4] units: 1
unique values: 4 missing .: 0/138

tabulation:	Freq.	Numeric	Label
	3	1	.
	5	2	no
	2	3	partial
	128	4	yes

overhead_costs Overhead Costs List

type: string (str164)

unique values: 21 missing "": 4/138

examples: "UNCLEAR. The unit cost of "hospital stay" probably includes overhead (because it's roughly 10x the cost of one physician consultation)."



"administrative and operational costs: utilities, office supplies, rentals, repairs, annual capital costs"

"infrastructure, equipment and furnishings, data capture, programme management"

"rent, electricity, water, office supplies,

motorcycle maintenance and fuel, ART storage,
administrative staff, vehicle maintenance"

warning: variable has embedded and trailing blanks

pot_distortions Potential distortions

type: string (str319)

unique values: 3 missing "": 0/138

tabulation: Freq. Value

1	"AIDS treatment expense data were from county-level hospitals, which were usually second-level hospitals. Thus, the results are likely to have underestimated the costs of hospital care compared with the highest-level hospitals in cities and overestimate the costs compared with town-ship hospitals and village clinics. "
129	"NR"
8	"research setting (RCT)"

warning: variable has embedded and trailing blanks

volunteer_time Valuing Volunteer Time

type: numeric (long)

label: volunteer_time

range: [1,1]

units: 1

unique values: 1

missing .: 124/138

tabulation: Freq. Numeric Label

14	1	N/A
124	.	

family_time Valuing Family Time

type: numeric (long)

label: family_time

range: [1,3]

units: 1

unique values: 3

missing .: 56/138

tabulation: Freq. Numeric Label

78	1	N/A
----	---	-----

2	2	interview
2	3	local paid income
56	.	

px_costs_measured	Patient-Incurred Costs Measured
-------------------	---------------------------------

```

type: numeric (long)
label: px_costs_measured, but 1 nonmissing value is not labeled

range: [1,3]          units: 1
unique values: 3      missing .: 0/138

tabulation: Freq.   Numeric   Label
              42        1      .
              6         2    included
              90        3    not included

```

cat_cost	Catastrophic Cost Calculated
----------	------------------------------

```

type: numeric (long)
label: cat_cost, but 1 nonmissing value is not labeled

range: [1,5]          units: 1
unique values: 4      missing .: 0/138

tabulation: Freq.   Numeric   Label
              47        1      .
              73        2    N/A
              16        4    none
              2         5    yes

```

currency_yr	Reported Currency Year
-------------	------------------------

```

type: numeric (int)

range: [2002,2012]    units: 1
unique values: 9      missing .: 0/138

tabulation: Freq.   Value
              5    2002
              1    2004
             22    2006
              6    2007
              6    2008
             43    2009
             28    2010
             16    2011
             11    2012

```

iso_code	Reported Currency
----------	-------------------

```

      type: numeric (long)
      label: iso_code

      range: [1,3]
      unique values: 2
      units: 1
      missing .. 0/138

      tabulation: Freq.   Numeric   Label
                   1         1   BRL
                   137        3   USD

```



currency_iso	Currency of Data Collection
--------------	-----------------------------

```

      type: numeric (long)
      label: currency_iso

      range: [1,19]
      unique values: 18
      units: 1
      missing .. 0/138

      examples: 7   IDR
                  12  NR
                  15  USD
                  18  ZAR

```

currency_x	Currency Exchange Method
------------	--------------------------

```

      type: numeric (long)
      label: currency_x

      range: [1,2]
      unique values: 2
      units: 1
      missing .. 19/138

      tabulation: Freq.   Numeric   Label
                   6         1   N/A
                   113        2  market only
                   19         .

```

current_x_rate	Currency Exchange Rate
----------------	------------------------

```

      type: numeric (double)

      range: [6.8,20828]
      unique values: 15
      units: .01
      missing .. 55/138

```



```

      mean: 3994.82
    std. dev: 7114.68

percentiles:      10%      25%      50%      75%      90%
                  6.8       7       72.2     4861     18462

```

```
discount_rate
```

```
Discount Rate
```

```

      type: string (str4)

unique values: 9                                missing "": 56/138

tabulation: Freq. Value
              56 ""
              15 ".03"
               4 ".035"
               2 ".05"
               9 ".07"
               2 ".08"
               8 "0"
              35 "3"
               3 "N/A"
               4 "none"

```

```
inflation
```

```
Inflation rate
```

```

      type: numeric (long)
      label: inflation

      range: [1,3]                                units: 1
unique values: 3                                missing .: 0/138

tabulation: Freq. Numeric Label
              1         1 .03
             16         2 N/A
            121         3 NR

```

```
mean_cost
```

```
Mean Unit Cost
```

```

      type: numeric (double)

      range: [9.6090115,8502.0885]                units: 1.000e-07
unique values: 137                                missing .: 0/138

      mean: 1036.2
    std. dev: 1387.09

percentiles:      10%      25%      50%      75%      90%

```

199.514 353.783 667.76 1095.19 1690.08

si_personnel

Personnel (SI)

type: numeric (double)

range: [1.1647286,1133.9703] units: 1.000e-15
unique values: 56 missing.: 78/138

mean: 87.9146
std. dev: 154.62

percentiles: 10% 25% 50% 75% 90%
13.5313 24.0171 56.577 80.2195 174.714

si_per_service_delivery

Personnel: Direct Service Delivery (SI)

type: numeric (double)

range: [10.00049,1133.9703] units: 1.000e-15
unique values: 48 missing.: 86/138

mean: 90.7422
std. dev: 161.797

percentiles: 10% 25% 50% 75% 90%
14.8589 30.95 56.694 84.1191 128.128

si_per_support

Personnel: Support (SI)

type: numeric (double)

range: [0,21.88288] units: 1.000e-07
unique values: 9 missing.: 127/138

tabulation: Freq. Value
3 0
1 .111416
1 .22283199
1 .33424801
1 .77991199
1 1.002744
1 1.1141601
1 8.9683027
1 21.88288
127 .

si_per_mixed_unspec Personnel: Mixed Unspecified (SI)

type: numeric (double)

range: [1.1647286,267.45621] units: 1.000e-12
unique values: 10 missing : 128/138

mean: 52.1861
std. dev: 78.8

percentiles: 10% 25% 50% 75% 90%
1.82798 2.97653 33.0142 55.0011 162.307

si_recurrent Recurrent Goods (SI)

type: numeric (double)

range: [3.7961527,6062.1812] units: 1.000e-16
unique values: 99 missing : 32/138

mean: 654.332
std. dev: 1085.01

percentiles: 10% 25% 50% 75% 90%
112.4 165.843 282.44 789.64 1164.7

si_rec_key_drugs Recurring: Supplies (key drugs) (SI)

type: numeric (double)

range: [3.5804622,6062.1812] units: 1.000e-08
unique values: 92 missing : 32/138

mean: 620.322
std. dev: 1088.47

percentiles: 10% 25% 50% 75% 90%
105.981 132.585 198.705 789.301 1015.62

si_rec_med_int_supplies Recurring: Medical Supplies (excluding drugs) (SI)

type: numeric (double)

range: [0,249.19847] units: 1.000e-08
unique values: 62 missing : 62/138

mean: 42.602

si_rec_nonmed_int_supplies	Recurring: Non-medical Supplies (SI)
----------------------------	--------------------------------------

si_rec_building_space	Recurring: Building Space (SI)
-----------------------	--------------------------------

si_rec_other	Recurring: Other (SI)
--------------	-----------------------

```

tabulation:  Freq.  Value
              1   .21569049
              1   .22647502
              1   .26961312
            135   .

```

si_capital Capital (SI)

type: numeric (double)

range: [0,11.648412] units: 1.000e-07

unique values: 6 missing : 125/138

tabulation: Freq. Value

3	0
5	2.1178932
1	2.8255455
1	4.1089039
1	7.2903385
2	11.648412
125	.

si_cap_medical_equip Capital: Equipment (medical) (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing : 138/138

tabulation: Freq. Value

138	.
-----	---

si_cap_nonmed_equip Capital: Equipment (non-medical) (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing : 138/138

tabulation: Freq. Value

138	.
-----	---

si_cap_build Capital: Building/space (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing : 138/138

tabulation: Freq. Value

138	.
-----	---

si_cap_vehicles	Capital: Vehicles (SI)
-----------------	------------------------

```

type: numeric (double)

range: [0,1.0589466]      units: 1.000e-07
unique values: 2          missing .: 130/138

tabulation: Freq. Value
              3  0
              5  1.0589466
             130  .

```

si_cap_other	Capital: Other (SI)
--------------	---------------------

```

type: numeric (double)

range: [0,11.648412]     units: 1.000e-07
unique values: 6          missing .: 125/138

tabulation: Freq. Value
              3  0
              5  1.0589466
              1  2.8255455
              1  4.1089039
              1  7.2903385
              2  11.648412
             125  .

```

si_mixed	Mixed (SI)
----------	------------

```

type: numeric (double)

range: [8.9132805,1205.3613]  units: 1.000e-15
unique values: 93             missing .: 35/138

mean: 222.385
std. dev: 200.607

percentiles:      10%      25%      50%      75%      90%
                  28.9682  59.3149  166.082  312.355  547.482

```

si_pdm	(Patient) Direct, Medical (SI)
--------	--------------------------------

```

type: numeric (double)

range: [2.4215844,2.6417284]  units: 1.000e-07

```

unique values: 2 missing .: 136/138

tabulation: Freq. Value
1 2.4215844
1 2.6417284
136 .

si_pdm_pat_fees (Patient) Direct, Medical: Patient Fees (SI)

type: numeric (double)

range: [2.4215844,2.6417284] units: 1.000e-07
unique values: 2 missing .: 136/138

tabulation: Freq. Value
1 2.4215844
1 2.6417284
136 .

si_pdm_pat_tests (Patient) Direct, Medical: Tests (SI)

type: numeric (float)

range: [.,.] units: .
unique values: 0 missing .: 138/138

tabulation: Freq. Value
138 .

si_pdm_pat_tb_drugs (Patient) Direct, Medical: Non-TB drugs (SI)

type: numeric (float)

range: [.,.] units: .
unique values: 0 missing .: 138/138

tabulation: Freq. Value
138 .

si_pdm_pat_non_tb_drugs (Patient) Direct, Medical: Non-TB drugs (SI)

type: numeric (float)

range: [.,.] units: .
unique values: 0 missing .: 138/138

tabulation: Freq. Value
138 .

si_pdm_mix (Patient) Direct, Mixed: Mixed (SI)

type: numeric (float)
range: [.,.] units: .
unique values: 0 missing : 138/138

tabulation: Freq. Value
138 .

si_pdn (Patient) Direct, Non-medical (SI)

type: numeric (double)
range: [5.1733851,6.4942493] units: 1.000e-07
unique values: 2 missing : 136/138

tabulation: Freq. Value
1 5.1733851
1 6.4942493
136 .

si_pdn__patient__transport (Patient) Direct, Non-medical: Transport (SI)

type: numeric (double)
range: [5.1733851,6.4942493] units: 1.000e-07
unique values: 2 missing : 136/138

tabulation: Freq. Value
1 5.1733851
1 6.4942493
136 .

si_pdn_accomodation (Patient) Direct, Non-medical: Accomodation (SI)

type: numeric (float)
range: [.,.] units: .
unique values: 0 missing : 138/138

tabulation: Freq. Value
138 .

si_pdn_supplements (Patient) Direct, Non-medical: Supplements (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 138/138

tabulation: Freq. Value

138 .

si_pia (Patient) Indirect, Access (SI)

type: numeric (double)

range: [1.2107922,3.5223045] units: 1.000e-07

unique values: 2 missing .: 136/138

tabulation: Freq. Value

1 1.2107922

1 3.5223045

136 .

si_pia_pat_productivity (Patient) Indirect, Access: Productivity loss (mixed) (SI)

type: numeric (double)

range: [1.2107922,3.5223045] units: 1.000e-07

unique values: 2 missing .: 136/138

tabulation: Freq. Value

1 1.2107922

1 3.5223045

136 .

si_pia_prod_loss_trans (Patient) Indirect, Access: Productivity loss (transport) (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 138/138

tabulation: Freq. Value

138 .

si_pia_prod_loss_visits	(Patient) Indirect, Access: Productivity loss (visits) (SI)
-------------------------	--

type: numeric (float)

range:	[.,.]	units:	.
unique values:	0	missing .:	138/138

tabulation: Freq. Value

138	.
-----	---

si_pia_prod_loss_access_mix	(Patient) Indirect, Access: Productivity loss (access: mixed) (SI)
-----------------------------	---

type: numeric (float)

range:	[.,.]	units:	.
unique values:	0	missing .:	138/138

tabulation: Freq. Value

138	.
-----	---

si_pia_prod_loss_illness	(Patient) Indirect, Access: Productivity loss (illness) (SI)
--------------------------	---

type: numeric (float)

range:	[.,.]	units:	.
unique values:	0	missing .:	138/138

tabulation: Freq. Value

138	.
-----	---

si_pmx	Patient Mixed (SI)
--------	--------------------

type: numeric (double)

range:	[10.566914,12.107923]	units:	1.000e-06
unique values:	2	missing .:	136/138

tabulation: Freq. Value

1	10.566914
1	12.107923
136	.

si_pmx_pat_mixed (Patient) Mixed: Mixed (SI)

type: numeric (double)

range: [10.566914,12.107923] units: 1.000e-06
unique values: 2 missing : 136/138

tabulation: Freq. Value
 1 10.566914
 1 12.107923
 136 .

a_primary_sd Primary Service Delivery (A)

type: numeric (double)

range: [6.5569911,6565.2885] units: 1.000e-14
unique values: 102 missing : 32/138

mean: 830.854
std. dev: 1182.73

percentiles: 10% 25% 50% 75% 90%
 157.893 264.373 404.087 1007.38 1258.49

a_prisd_arv_delivery Primary SD: ARV Delivery (A)

type: numeric (double)

range: [6.5569911,6062.1812] units: 1.000e-15
unique values: 101 missing : 32/138

mean: 649.089
std. dev: 1078.99

percentiles: 10% 25% 50% 75% 90%
 116.987 162.946 273.666 789.301 1015.62

a_prisd_lab_monitoring Primary SD: Routine Lab Monitoring (A)

type: numeric (double)

range: [6.0621727,403.45865] units: 1.000e-15
unique values: 82 missing : 45/138

mean: 109.889

std. dev: 98.0788

percentiles:	10%	25%	50%	75%	90%
	16.1768	37.6446	71.2716	169.31	269.627

a_prisd_unspecified Primary SD: Unspecified (A)

type: numeric (double)

range:	[.20059216,1133.9703]	units:	1.000e-14
unique values:	70	missing .:	59/138

mean: 114.524

std. dev: 129.842

percentiles:	10%	25%	50%	75%	90%
	29.5252	55.708	101.873	139.191	183.787

a_secondary_sd Secondary Service Delivery (A)

type: numeric (double)

range:	[24.893332,738.93889]	units:	1.000e-07
unique values:	10	missing .:	123/138

mean: 177.663

std. dev: 165.352

percentiles:	10%	25%	50%	75%	90%
	40.6154	115.873	162.883	162.883	271.206

a_secsd_unspecified Secondary SD: Unspecified (A)

type: numeric (double)

range:	[24.893332,738.93889]	units:	1.000e-07
unique values:	10	missing .:	123/138

mean: 177.663

std. dev: 165.352

percentiles:	10%	25%	50%	75%	90%
	40.6154	115.873	162.883	162.883	271.206

a_ancillary Ancillary (A)

```

type: numeric (double)

range: [0,249.19847]          units: 1.000e-09
unique values: 51             missing : 73/138

mean: 39.6603
std. dev: 48.6092

percentiles:      10%      25%      50%      75%      90%
                  .471737  4.91345  25.4147  51.7338  85.6192

```

```

a_anc_demand_generation                      Ancillary: Demand Generation (A)

```

```

type: numeric (float)

range: [.,.]          units: .
unique values: 0       missing : 138/138

tabulation: Freq. Value
              138 .

```

```

a_anc_lab_services                          Ancillary: Lab Services (A)

```

```

type: numeric (double)

range: [10.027441,17.82656]    units: 1.000e-08
unique values: 2               missing : 136/138

tabulation: Freq. Value
              1 10.027441
              1 17.82656
            136 .

```

```

a_anc_adherence_retention                  Ancillary (A): Adherence/retention (A)

```

```

type: numeric (double)

range: [1.4882644,66.389229]    units: 1.000e-09
unique values: 15               missing : 114/138

mean: 27.8304
std. dev: 24.4292

percentiles:      10%      25%      50%      75%      90%
                  5.29473  9.20416  16.445  52.2557  66.3892

```

```

a_anc_unspecified                          Ancillary: Unspecified (A)

```

```

-----
                type: numeric (double)

                range: [0,249.19847]                units: 1.000e-09
unique values: 38                                missing .: 88/138

                mean: 37.6427
                std. dev: 51.2069

percentiles:      10%      25%      50%      75%      90%
                  .279414  4.91345  19.23   48.365  90.3568

```

```

-----
a_mix_mixed (sum) a_mix_mixed
-----

```

```

                type: numeric (double)

                range: [.21569049,267.45621]        units: 1.000e-08
unique values: 10                                missing .: 128/138

                mean: 44.4929
                std. dev: 81.111

percentiles:      10%      25%      50%      75%      90%
                  .221083  .269613  14.7255  55.0011  162.307

```

```

-----
a_operational Operational (A)
-----

```

```

                type: numeric (double)

                range: [0,284.37436]                units: 1.000e-07
unique values: 58                                missing .: 63/138

                mean: 51.0355
                std. dev: 51.4579

percentiles:      10%      25%      50%      75%      90%
                  7.29034  23.3974  36.6674  65.7354  100.972

```

```

-----
a_ope_bldg equip Operational: Buildings and Equipment (A)
-----

```

```

                type: numeric (double)

                range: [3.1768396,10.589466]        units: 1.000e-07
unique values: 3                                missing .: 130/138

tabulation: Freq. Value
              3  3.1768396

```

4 6.3536792
1 10.589466
130 .

a_ope_logistics Operational: Logistics (A)

type: numeric (double)

range: [0,26.326763] units: 1.000e-07
unique values: 4 missing .: 124/138

tabulation: Freq. Value
2 0
5 1.0589466
1 2.1178932
6 26.326763
124 .

a_ope_program_mgmt Operational: Program Management (A)

type: numeric (double)

range: [5.44295,5.44295] units: .00001
unique values: 1 missing .: 137/138

tabulation: Freq. Value
1 5.4429498
137 .

a_ope_supervision Operational: Supervision (A)

type: numeric (double)

range: [95.762054,95.762054] units: 1
unique values: 1 missing .: 135/138

tabulation: Freq. Value
3 95.762054
135 .

a_ope_training Operational: Training (A)

type: numeric (double)

range: [0,24.801201] units: 1.000e-07
unique values: 5 missing .: 129/138

```

tabulation: Freq. Value
              2  0
              1  1.3747034
              2  5.6933575
              2  17.068932
              2  24.801201
            129  .

```

a_ope_transportation

Operational: Transportation (A)

```

type: numeric (double)

range: [3.1768398,95.305191]      units: 1.000e-07
unique values: 9                  missing .: 124/138

```

```

tabulation: Freq. Value
              2  3.1768398
              1  4.2357862
              1  5.5036011
              4  7.4126258
              1  7.7050414
              2  9.9064817
              1  11.648413
              1  86.833618
              1  95.305191
            124  .

```

a_ope_massed

Operational: Mass Education (A)

```

type: numeric (float)

range: [.,.]                      units: .
unique values: 0                  missing .: 138/138

```

```

tabulation: Freq. Value
            138  .

```

a_ope_hmis

Operational: HMIS and Record-Keeping (A)

```

type: numeric (float)

range: [.,.]                      units: .
unique values: 0                  missing .: 138/138

```

```

tabulation: Freq. Value
            138  .

```

a_ope_unspecified	Operational: Unspecified (A)
-------------------	------------------------------

type: numeric (double)

range:	[2.8255455,284.37436]	units:	1.000e-10		
unique values:	51	missing .:	80/138		
mean:	51.0426				
std. dev:	53.4979				
percentiles:	10%	25%	50%	75%	90%
	8.91328	23.3974	40.5633	62.393	95.5293

a_mixed	Mixed (A)
---------	-----------

type: numeric (double)

range:	[.21569049,267.45621]	units:	1.000e-08		
unique values:	10	missing .:	128/138		
mean:	44.4929				
std. dev:	81.111				
percentiles:	10%	25%	50%	75%	90%
	.221083	.269613	14.7255	55.0011	162.307