

# Data Validation Exercise before Entry into UCSR

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## 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: string (str3)

unique values: 1                      missing "": 0/101

tabulation:	Freq.	Value
	101	"HIV"

---

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

---

type: string (str3), but longest is str2

unique values: 1                      missing "": 0/101

tabulation:	Freq.	Value
	101	"No"

---

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

---

type: string (str43)

unique values: 25                      missing "": 0/101

examples: "Chiwevu, CM"  
"Hewett, PC"  
"Marseille, E"

"Obiero, W"

warning: variable has embedded blanks

---

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

---

type: numeric (int)

range: [2006,2016]                      units: 1

unique values: 9                              missing .: 2/101

tabulation: Freq. Value

1	2006
3	2007
33	2010
2	2011
2	2012
10	2013
18	2014
17	2015
13	2016
2	.



---

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

---

type: string (str17)

unique values: 1                              missing "": 0/101

tabulation: Freq. Value

101	"service delivered"
-----	---------------------

warning: variable has embedded blanks

---

flags	(unlabeled)
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---

type: string (str1)

unique values: 1                              missing "": 0/101

tabulation: Freq. Value

101	."
-----	----

---

ref_author	Reference Authors
------------	-------------------

---

type: string (str152)

unique values: 28 missing "": 0/101

examples: "Chiwevu CM"  
"Hewett PC, Nalubamba M, Bozzani F, Digitale J, Vu L,  
Yam E, Nambao M"  
"Marseille E, Kahn JG, Beatty S, Jared M, Perchal P"  
"Obiero W, Young MR, Bailey RC"

warning: variable has embedded blanks

---

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

---

type: string (str162)

unique values: 29 missing "": 0/101

examples: "Cost analysis of adult male circumcision with the  
PrePex device versus surgery in Rwanda"  
"Costing of male circumcision in Zambia and the  
impacts of scaling up the male circumcision  
programme"  
"Costs and impacts of scaling up voluntary medical  
male circumcision in Tanzania"  
"How much does it cost to improve access to voluntary  
medical male circumcision among high-risk, low-income  
communities in Uganda?"

warning: variable has embedded blanks

---

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

---

type: string (str123)

unique values: 29 missing "": 0/101

examples: "Journal of Acquired Immune Deficiency Syndrome.  
63(3):e109-12."  
"PLoS ONE 9(5): e83925."  
"The USAID Health Policy Initiative (Unpublished)"  
"Washington (District of Columbia): Futures Group,  
Health Policy Initiative, Task Order 1."

warning: variable has embedded blanks

---

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

---

type: string (str119)

```

unique values: 24                      missing "": 0/101

examples: "<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC401157
5/>."
"<https://www.ncbi.nlm.nih.gov/pubmed/24450374>."
"<https://www.ncbi.nlm.nih.gov/pubmed/27331599>."
"Not available"

warning: variable has embedded blanks

```

```

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

```

```

type: string (str30)

unique values: 11                      missing "": 0/101

examples: "Namibia"
"South Africa"
"Uganda"
"Zambia"

warning: variable has embedded blanks

```

```

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

```

```

type: string (str179)

unique values: 34                      missing "": 4/101

examples: "Harare"
"Lusaka"
"Multiple"
"Ngome Health Center (urban); Mafinga District
Hospital in Mufundi; Iringa Regional Hospital
(urban); Tosamanganga DD Hospital (rural); Lugoda
Hospital"

warning: variable has embedded blanks

```

```

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

```

```

type: numeric (int)

range: [1,158]                      units: 1
unique values: 16                    missing .: 10/101

mean: 6.62637

```

```

std. dev: 17.7662

percentiles:      10%      25%      50%      75%      90%
                  1        1        1        5       17

```

---

```

pop_density
Urbanicity


```

---

```

type: string (str10)

unique values: 5          missing "": 0/101

tabulation: Freq. Value
              1  "." 
              47 "Mixture"
               4 "Peri-urban"
              16 "Rural"
              33 "Urban"

```

---

```

ownership
Ownership

```

---

```

type: string (str17)

unique values: 4          missing "": 3/101

tabulation: Freq. Value
              3 ""
             27 "International NGO"
             11 "Mixed"
               3 "Private"
             57 "Public"

warning: variable has embedded blanks

```

---

```

platform
Platform

```

---

```

type: string (str15)

unique values: 4          missing "": 0/101

tabulation: Freq. Value
             83 "Fixed facility"
               6 "Other"
             10 "Outreach"
               2 "Population wide"

warning: variable has embedded blanks

```

---

facility\_cat Platform\_specificity

```
type: string (str68)
unique values: 14 missing "": 0/101
examples: "Hospital - Level Unspecified"
           "Hospital - Primary (district)"
           "Mix of health care facility types"
           "Unspecified health care facility type"
warning: variable has embedded blanks
```

id\_class Intervention Category

```
type: string (str13)
unique values: 2 missing "": 0/101
tabulation: Freq. Value
              2 "Health System"
              99 "Prevention"
warning: variable has embedded blanks
```

id\_type Intervention Type

```
type: string (str4)
unique values: 1 missing "": 0/101
tabulation: Freq. Value
              101 "VMC"
```

id\_int Intervention

```
type: string (str4)
unique values: 1 missing "": 0/101
tabulation: Freq. Value
              101 "VMC"
```

int\_description\_long Intervention Description (Long)

type: string (str1484)

unique values: 46

missing "": 0/101

examples: "From Ally article: The campaign service delivery model occurs at fixed sites but provides services as part of a campaign event. The campaign site is assigned to co-site managers, which are usually the medical officers in charge of the facility and a staff member from the partner supporting the VMMC services in the region. The co-site manager is responsible for the day-to-day activities and oversees all logistics for human resources and supplies in the site. This is combined with a team of VMMC providers offering services in hard-to-reach areas, with services being coordinated from a non-campaign site located at a hospital. Island outreach to the islands of Lake Victoria is one example of a mobile service delivery model. Costing was then carried out for adult VMMC using an ingredients approach, whereby all the inputs were listed and their contribution to the overall cost was then quantified. Different service providers and service delivery models (non-campaign, campaign, and island outreach) were considered, allowing for comparison and validation. The costing was largely informed by the actual costs incurred at the selected sites."

"MC is also a surgical procedure has been shown to reduce mens risk of HIV infection through heterosexual intercourse by at least one-half and possibly as much as two-thirds"

"Method: PrePex device. Three routine follow up visits were included. HCT is included, but no details are given. Staff includes 2 teams composed of 3 nurses and 1 doctor each."

"The main objectives of the costing and modeling exercise were the following:

Determine the median

unit cost of MC

Estimate the impact of MC on major

HIV indicators, such as the number of HIV infections and

the net savings derived from MC (cost of MC

procedures versus antiretroviral treatment [ART])

Estimate the number of annual MC procedures required to reach desired coverage targets

Determine the

total annual cost and total cumulative cost for the modeled period of scale-up

(20102025)

"

warning: variable has embedded and trailing blanks

---

clinical\_monitoring

Clinical monitoring

---

type: string (str2), but longest is str1

unique values: 1 missing "": 0/101

tabulation: Freq. Value  
101 "."

---

demand\_generation

Demand generation

---

type: string (str36)

unique values: 4 missing "": 0/101

tabulation: Freq. Value  
69 "."  
6 "None"  
2 "text all, sporting events, pamphlets"  
24 "yes - type NR"

warning: variable has embedded blanks

---

counseling\_content

Counseling content

---

type: string (str33)

unique values: 11 missing "": 0/101

examples: "."  
."  
"HIV Counseling"  
"None"

warning: variable has leading and embedded blanks

---

staff\_type

Staff type & number

---

type: string (str294)

unique values: 18 missing "": 0/101

examples: "."  
."



```
"."
"Operators (32), Supervisor & AE Management (1),
Trainer (1), Runner (2), CSSD (2), Maintenance (2),
Laundry (2), Recovery (0), Discharge (1),
Registration (1), Customer Care (1), Supply
Management (1), Data Management (1), After care on
site cover (1), Counselling and testing (3), Hot Line
(3)"
```

warning: variable has leading and embedded blanks

---

supportive_care	Supportive care
-----------------	-----------------

---

type: string (str3), but longest is str1

unique values: 1 missing "": 0/101

tabulation:	Freq.	Value
	101	"."

---

visits	Visit type & number
--------	---------------------

---

type: string (str33)

unique values: 11 missing "": 0/101

examples: "."  
"."  
"."  
"."

warning: variable has embedded blanks

---


referrals	Referrals
-----------	-----------

---

type: string (str16)

unique values: 2 missing "": 0/101

tabulation:	Freq.	Value
	98	"."
	3	"yes - details NR"



warning: variable has embedded blanks

---

method	Method
--------	--------

---

```

type: string (str8)
unique values: 4 missing "": 0/101
tabulation: Freq. Value
              3  "."
             19  "Device"
              3  "Mixed"
             76  "Surgical"

```

---

```

id_tech Technology

```

---

```

type: string (str40)
unique values: 12 missing "": 26/101
examples: ""
          "Dorsal slit and Forceps-guided"
          "dorsal slit"
          "forceps guided"
warning: variable has embedded blanks

```

---

```

treatment_phase Treatment phase

```

---

```

type: string (str3), but longest is str1
unique values: 1 missing "": 0/101
tabulation: Freq. Value
             101  "."

```

---

```

arv_regimen ARV Regimen

```

---

```

type: string (str3), but longest is str1
unique values: 1 missing "": 0/101
tabulation: Freq. Value
             101  "."

```

---

```

treatment Treatment

```

---

```

type: string (str3), but longest is str1

```

```

unique values: 1                                missing "": 0/101

tabulation: Freq. Value
            101 "."

```

---

```

screening_diagnoses                                Screening and diagnosis

```

---

```

type: string (str16)

unique values: 4                                missing "": 2/101

tabulation: Freq. Value
            2  ""
            64  "."
            25  "HIV testing"
            1  "None"
            9  "TB/HIV screening"

```



```

warning: variable has embedded blanks

```

---

```

community_awareness                                Community awareness

```

---

```

type: string (str2), but longest is str1

unique values: 1                                missing "": 0/101

tabulation: Freq. Value
            101 "."

```

---

```

id_activities                                        Costed activities

```

---

```

type: string (str147)

unique values: 23                                missing "": 0/101

examples: "."
          "HIV testing; counseling; follow-up examination(s);
          training; circumcision procedure; supply chain; waste
          management"
          "demand generation; HIV testing; counseling; condom
          distribution; training; monitoring and evaluation;
          circumcision procedure"
          "demand generation; HIV testing; counseling;
          training; monitoring and evaluation; circumcision
          procedure; complications"

```

```

warning: variable has leading and embedded blanks

```

---

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

---

```

type: numeric (byte)

range: [1,12]          units: 1
unique values: 8       missing .: 22/101

```

```

tabulation: Freq. Value
              45  1
              1  3
             13  4
              4  5
              2  7
              2  8
              9 11
              3 12
             22  .

```

---

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

---

```

type: numeric (int)

range: [2007,2014]     units: 1
unique values: 8       missing .: 13/101

```

```

tabulation: Freq. Value
              1 2007
             14 2008
             26 2009
              9 2010
             10 2011
              5 2012
             12 2013
             11 2014
             13  .

```

---

end_month	End Month
-----------	-----------

---

```

type: numeric (byte)

range: [1,12]          units: 1
unique values: 10       missing .: 23/101

mean: 8.87179
std. dev: 3.67992

percentiles:      10%      25%      50%      75%      90%
                  4        6      11.5      12       12

```

---

end_year	End Year
----------	----------

---

```

type: numeric (int)

range: [2007,2015]          units: 1
unique values: 9             missing .: 16/101

```

```

tabulation: Freq. Value
              1  2007
              7  2008
             18  2009
              7  2010
             18  2011
              8  2012
             12  2013
             11  2014
              3  2015
             16  .

```

---

period_portrayed	Total Months
------------------	--------------

---

```

type: numeric (double)

range: [1,72]              units: .01
unique values: 13           missing .: 33/101

```

```

mean: 13.3574
std. dev: 12.9447

```

```

percentiles:      10%      25%      50%      75%      90%
                  2        4        12        17        24

```

---

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

---

```

type: numeric (int)

range: [2008,2014]          units: 1
unique values: 6             missing .: 66/101

```

```

tabulation: Freq. Value
              2  2008
              5  2009
              8  2010
              8  2011
             10  2013
              2  2014
             66  .

```

---

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

---

type: numeric (double)

range: [.06,.8]                      units: .001  
unique values: 7                      missing .: 64/101

tabulation: Freq. Value

1	.06
2	.1
18	.15
9	.186
2	.23
3	.26
2	.8
64	.

---

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

---

type: string (str41)

unique values: 5                      missing "": 0/101

tabulation: Freq. Value

11	"Adolescent Boys and Adult Men"
2	"Adolescent Boys and Young Men, ages 15-29"
5	"Infants, ages 1month - 2 yrs"
82	"Men"
1	"Neonates, ages birth - 1 month"

warning: variable has embedded blanks

---

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

---

type: string (str12)

unique values: 2                      missing "": 0/101

tabulation: Freq. Value

100	"HIV negative"
1	"HiV negative"

warning: variable has embedded blanks

---

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

---

```

-----
                type: string (str8)

unique values: 10                                missing "": 0/101

examples: "."
           "."
           "."
           "20.6"

warning: variable has embedded blanks

```

```

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

```

```

                type: string (str5)

unique values: 1                                missing "": 0/101

tabulation: Freq. Value
              101  "Males"

```

```

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

```

```

                type: string (str63)

unique values: 4                                missing "": 0/101

tabulation: Freq. Value
              96  "."
              3  "46% working, 7.7 mean number of assets,
                82.9% have mobile phone"
              1  "66.3% employed"
              1  "73.1% employed"

warning: variable has embedded blanks

```

```

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

```

```

                type: string (str56)

unique values: 3                                missing "": 0/101

tabulation: Freq. Value
              95  "."
              3  "9.2 mean grade completed "
              3  "Mothers completing secondary education:
                83% (Mavhu 2015)"

```

warning: variable has embedded and trailing blanks

---

hiv\_prev HIV Prevalence

---

type: numeric (double)

range: [.03,.2]                      units: .001  
unique values: 9                      missing : 73/101

tabulation: Freq. Value

2	.03
3	.048
3	.061
1	.09
2	.091
1	.11
9	.122
2	.19
5	.2
73	.

---

tb\_prev TB Prevalence

---

type: string (str3), but longest is str1

unique values: 1                      missing "": 0/101

tabulation: Freq. Value

101	."
-----	----

---

tb\_rx\_resistance TB Drug Resistance

---

type: string (str3), but longest is str1

unique values: 1                      missing "": 0/101

tabulation: Freq. Value

101	."
-----	----

---

costing\_purpose Costing Purpose

---

type: string (str286)

unique values: 30                      missing "": 0/101



examples: "To compare fixed vs mobile delivery costs"  
 "To derive the unit cost of delivering medical male  
 circumcision in South Africa at the facility level;  
 Assess costs from a client perspective; and Identify  
 the level of spending currently incurred for demand  
 creation"  
 "To estimate the current costs of providing a  
 comprehensive package of services for medical male  
 circumcision"  
 "To evaluate the logistic and financial feasibility  
 of various approaches, including the use of the  
 PrePex™ device"

warning: variable has embedded blanks

---

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

---

type: string (str15)

unique values: 2                      missing "": 2/101

tabulation: Freq. Value

2	"
70	"Cross-sectional"
29	"Longitudinal"

---

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

---

type: string (str11)

unique values: 3                      missing "": 38/101

tabulation: Freq. Value

38	"
58	"."
1	"Convenience"
4	"Purposive"

---

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

---

type: string (str11)

unique values: 3                      missing "": 43/101

tabulation: Freq. Value

43	"
23	"."
5	"Convenience"

30 "Purposive"

---

site\_sampling

Site Sampling

---

type: string (str11)

unique values: 2

missing "": 47/101

tabulation:	Freq.	Value
	47	"
	53	"Purposive"
	1	"convenience"

---

px\_sampling

Patient Sampling

---

type: string (str14)

unique values: 5

missing "": 54/101

tabulation:	Freq.	Value
	54	"
	35	"."
	4	"Convenience"
	2	"Entire program"
	5	"Random"
	1	"convenience"

warning: variable has embedded blanks

---

sample\_size\_derived

Sample size formally derived

---

type: string (str3)

unique values: 2

missing "": 59/101

tabulation:	Freq.	Value
	59	"
	28	"No"
	14	"Yes"

---

controls

Controls

---

type: string (str3)

unique values: 2

missing "": 35/101

```

tabulation: Freq. Value
              35  ""
              60  "No"
              6   "Yes"

```

---

```

econ_perspective_actual                                     Perspective

```

---

```

type: string (str8)

unique values: 2                                     missing "": 0/101

tabulation: Freq. Value
              92  "Provider"
              9   "Society"

```

---

```

econ_costing                                               Economic / Financial

```

---

```

type: string (str8)

unique values: 1                                     missing "": 0/101

tabulation: Freq. Value
              101 "economic"

```

---

```

real_world                                               Real World / Per Protocol

```

---

```

type: string (str13)

unique values: 4                                     missing "": 0/101

tabulation: Freq. Value
              2   "N/A (modeled)"
              3   "Real World"
              8   "per protocol"
             88   "real world"

```

```

warning: variable has embedded blanks

```

---

```

asd_costs                                               Above Service Costs Included

```

---

```

type: string (str19)

unique values: 5                                     missing "": 11/101

tabulation: Freq. Value
              11  ""

```

```

2 "No costs included"
1 "no cost included"
69 "no costs included"
17 "some costs included"
1 "yes"

```

warning: variable has embedded blanks

---

```
list_asd_costs
```

---

Above Service Cost List

type: string (str104)

unique values: 4 missing "": 91/101

```

tabulation: Freq. Value
91 ""
2 "Shared hospital costs above the level
of the program (HR, IT, finance and
hospital administration costs)"
2 "above facility management and
supervision"
2 "non-facility based technical assistant
Overhead, waste management and supply
chain"
4 "non-facility-based overheads"

```

warning: variable has embedded blanks

---

```
omitted_costs
```

---

Omitted Costs

type: string (str191)

unique values: 23 missing "": 0/101

```

examples: "Demand generation, Other - patient insurance fees"
"Patient costs"
"Patient costs"
"Vehicle/transport, Demand creation, Other - waste
management, Patient costs"

```

warning: variable has embedded blanks

---

```
sensitivity_analysis
```

---

Sensitivity Analysis

type: string (str13)

unique values: 3 missing "": 0/101

```

        tabulation: Freq. Value
                     78 "None"
                     14 "comprehensive"
                     9  "limited"

-----
scale                                                                 Economies of scale
-----

        type: string (str12)

unique values: 4                                missing "": 0/101

        tabulation: Freq. Value
                     4  "acknowledged"
                     14 "analyzed"
                     47 "discussed"
                     36 "ignored"

-----
research_costs                                                         Research Costs Included
-----

        type: string (str8)

unique values: 1                                missing "": 20/101

        tabulation: Freq. Value
                     20 ""
                     81 "excluded"

-----
unrelated_costs                                                         Unrelated Costs Included
-----

        type: string (str1), but longest is str0

unique values: 0                                missing "": 101/101

        tabulation: Freq. Value
                     101 ""

-----
overhead                                                                Overhead Costs Included
-----

        type: string (str3)

unique values: 2                                missing "": 0/101

        tabulation: Freq. Value
                     10 "no"
                     91 "yes"

```

---

overhead_costs	Overhead Costs List
----------------	---------------------

---

```

type: string (str119)

unique values: 25          missing "": 3/101

examples: "."
          "capital, maintenance and utilities, training,
          support personnel"
          "equipment, utilities, land and buildings"
          "renovations, electricity, water, facility space,
          administration and support "

warning: variable has embedded and trailing blanks

```

---

pot_distortions	Potential distortions
-----------------	-----------------------

---

```

type: string (str336)

unique values: 4          missing "": 0/101

tabulation: Freq. Value
              96  "."
              1  "Many indirect cost not included"
              2  "Unit costs sensitive to resource
                  utilisation rates; If each staff role is
                  not fully utilized, unit cost will
                  increase; Costs based on current local
                  prices and subject to future inflation
                  and exchange rate variations; Success
                  depends on centres being fully utilised
                  (growing concern that the number of men
                  attending beginning to decline)"
              2  "research setting (RCT)"

warning: variable has embedded blanks

```

---

volunteer_time	Valuing Volunteer Time
----------------	------------------------

---

```

type: string (str3), but longest is str1

unique values: 1          missing "": 90/101

tabulation: Freq. Value
              90  ""
              11  "."

```

---

family\_time Valuing Family Time

```
type: string (str9)
unique values: 2 missing "": 43/101
tabulation: Freq. Value
              43 ""
              49 "."
              9 "interview"
```

px\_costs\_measured Patient-Incurred Costs Measured

```
type: string (str12)
unique values: 3 missing "": 0/101
tabulation: Freq. Value
              7 "."
              9 "included"
             85 "not included"
warning: variable has embedded blanks
```

cat\_cost Catastrophic Cost Calculated

```
type: string (str3), but longest is str1
unique values: 1 missing "": 0/101
tabulation: Freq. Value
             101 "."
```

currency\_yr Reported Currency Year

```
type: numeric (int)
range: [2006,2015] units: 1
unique values: 10 missing .: 0/101
mean: 2010.97
std. dev: 2.41021
percentiles: 10% 25% 50% 75% 90%
              2007 2009 2012 2013 2014
```

---

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

---

```
type: string (str6)
unique values: 4 missing "": 0/101
tabulation: Freq. Value
              1 "Kwacha"
              1 "Maloti"
             90 "USD"
              9 "ZAR"
```

---

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

---

```
type: string (str3)
unique values: 8 missing "": 0/101
tabulation: Freq. Value
              38 "."
              11 "KES"
               2 "MZN"
               7 "NAD"
               8 "TZS"
               9 "UGX"
              14 "USD"
              12 "ZAR"
```

---

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

---

```
type: string (str11)
unique values: 3 missing "": 71/101
tabulation: Freq. Value
              71 ""
               5 "."
              24 "market only"
               1 "mixed"
```

warning: variable has embedded blanks

---

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

---

```
type: numeric (double)
range: [1,4290.1] units: .001
```



```
unique values:  14                               missing .:  46/101
      mean:    628.671
    std. dev:  1031.48

percentiles:    10%      25%      50%      75%      90%
                1        7.9     10.83    1469    2469
```

```

      type:  numeric (double)

      range:  [.03,.06]                units:  .01
unique values:  2                      missing .:  72/101

      tabulation:  Freq.  Value
                   23   .03
                   6   .06
                   72   .

```

```

      type:  string (str64)

unique values:  2                               missing "":  0/101

      tabulation:  Freq.  Value
                   99  "."
                   2  "GDP deflator for South Africa compared
                     to reference year of 2005"

      warning:  variable has embedded blanks

```

```

      type: numeric (double)

      range: [3.2515259,168.17026]          units: 1.000e-08
unique values: 99                          missing : 0/101

      mean: 62.5523
    std. dev: 31.7357

percentiles:       10%        25%         50%         75%         90%
                  23.9851   44.0985   57.9363   77.2312   104.731

```

```

-----
type: numeric (double)

range: [.36474141,73.044065] units: 1.000e-15
unique values: 58 missing : 41/101

mean: 18.0583
std. dev: 12.4901

percentiles:      10%      25%      50%      75%      90%
                  4.59049  8.31241  18.6586  23.0601  28.6283

```

```

-----
si_per_service_delivery Personnel: Direct Service Delivery (SI)
-----

```

```

type: numeric (double)

range: [.3647414,58.169079] units: 1.000e-07
unique values: 55 missing : 44/101

mean: 12.4324
std. dev: 9.24278

percentiles:      10%      25%      50%      75%      90%
                  4.05384  6.03875  11.2142  17.7056  21.9267

```

```

-----
si_per_support Personnel: Support (SI)
-----

```

```

type: numeric (double)

range: [.19800248,40.299169] units: 1.000e-09
unique values: 40 missing : 55/101

mean: 6.6973
std. dev: 7.45557

percentiles:      10%      25%      50%      75%      90%
                  .635692  1.02503  3.8389  11.4049  14.9186

```

```

-----
si_per_mixed_unspec Personnel: Mixed Unspecified (SI)
-----

```

```

type: numeric (double)

range: [15.527563,32.667171] units: 1.000e-06
unique values: 3 missing : 98/101

tabulation: Freq. Value
              1 15.527563

```

```

1 18.580971
1 32.667171
98 .

```

---

```

si_recurrent                                     Recurrent Goods (SI)

```

---

```

type: numeric (double)

range: [1.8669433,35.842525]      units: 1.000e-08
unique values: 56                  missing : 39/101

mean: 18.62
std. dev: 10.2404

percentiles:      10%      25%      50%      75%      90%
                  5.89391  9.90115  16.7523  29.5658  32.2327

```

---

```

si_rec_key_drugs                                Recurring: Supplies (key drugs) (SI)

```

---

```

type: numeric (float)

range: [.,.]      units: .
unique values: 0   missing : 101/101

tabulation: Freq. Value
              101 .

```

---

```

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

```

---

```

type: numeric (double)

range: [.20955418,35.842525]      units: 1.000e-08
unique values: 56                  missing : 39/101

mean: 18.0225
std. dev: 10.481

percentiles:      10%      25%      50%      75%      90%
                  5.72678  9.43521  16.7523  29.3328  32.2223

```

---

```

si_rec_nonmed_int_supplies                    Recurring: Non-medical Supplies (SI)

```

---

```

type: numeric (double)

range: [0,.1225576]      units: 1.000e-09
unique values: 4          missing : 94/101

```

```

tabulation: Freq. Value
              1  0
              1 .0668496
              2 .09363309
              3 .1225576
             94 .

```

---

```

si_rec_building_space                                     Recurring: Building Space (SI)

```

---

```

type: numeric (double)

range: [0,12.262023]          units: 1.000e-07
unique values: 8              missing .: 91/101

```

```

tabulation: Freq. Value
              2  0
              1 .055708
              2 .83600968
              1 3.1433487
              1 4.4900646
              1 6.6703644
              1 6.6738186
              1 12.262023
             91 .

```

---

```

si_rec_other                                             Recurring: Other (SI)

```

---

```

type: numeric (double)

range: [0,11]              units: 1
unique values: 2            missing .: 0/101

```

```

tabulation: Freq. Value
              99  0
              2  11

```

---

```

si_capital                                             Capital (SI)

```

---

```

type: numeric (double)

range: [.04696702,41.517996]  units: 1.000e-17
unique values: 56              missing .: 42/101

```

```

mean: 4.67886
std. dev: 7.55193

```

```

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

```

.336787 .751852 1.84455 5.02486 12.7285

---

si\_cap\_medical\_equip Capital: Equipment (medical) (SI)

---

type: numeric (double)

range: [.04051049,31.645706] units: 1.000e-10  
unique values: 45 missing : 48/101

mean: 1.85014  
std. dev: 4.59324

percentiles: 10% 25% 50% 75% 90%  
.072948 .135475 .458532 1.08924 5.77126

---

si\_cap\_nonmed\_equip Capital: Equipment (non-medical) (SI)

---

type: numeric (double)

range: [1.1880149,41.413784] units: 1.000e-07  
unique values: 9 missing : 92/101

tabulation: Freq. Value  
1 1.1880149  
1 1.4798081  
1 1.4902292  
1 1.6361258  
1 1.7090741  
1 1.7299165  
1 2.3465157  
1 2.7720349  
1 41.413784  
92 .

---

si\_cap\_build Capital: Building/space (SI)

---

type: numeric (float)

range: [.,.] units: .  
unique values: 0 missing : 101/101

tabulation: Freq. Value  
101 .

---

si\_cap\_vehic Capital: Vehicles (SI)

---

```

type: numeric (float)
range: [.,.]
unique values: 0
units: .
missing : 101/101

```

```

tabulation: Freq. Value
            101 .

```

---

```

si_cap_other
Capital: Other (SI)

```

---

```

type: numeric (double)
range: [.30382866,19.42108]
unique values: 26
units: 1.000e-08
missing : 72/101

mean: 4.21483
std. dev: 5.39879

percentiles:      10%      25%      50%      75%      90%
                .367673  1.57097  2.28403  2.98623  14.6958

```

---

```

si_mixed
Mixed (SI)

```

---

```

type: numeric (double)
range: [.1822972,65.226187]
unique values: 54
units: 1.000e-17
missing : 43/101

mean: 12.0564
std. dev: 12.4192

percentiles:      10%      25%      50%      75%      90%
                .412989  4.10926  9.60833  16.0536  24.3469

```

---

```

si_mix_mixed
Mixed: Mixed (SI)

```

---

```

type: numeric (double)
range: [.1822972,65.226187]
unique values: 54
units: 1.000e-17
missing : 43/101

mean: 12.0564
std. dev: 12.4192

percentiles:      10%      25%      50%      75%      90%
                .412989  4.10926  9.60833  16.0536  24.3469

```

---

a\_primary\_sd Primary Service Delivery (A)

---

type: numeric (double)

range: [1.5471697,90.631969] units: 1.000e-14  
unique values: 62 missing : 39/101

mean: 30.8063  
std. dev: 15.3572

percentiles:       10%       25%       50%       75%       90%  
                 15.0795   19.0563   29.2488   37.4126   52.0472

---

a\_prisd\_circumcision\_proced Primary SD: Circumcision Procedure (A)

---

type: numeric (double)

range: [0,35.69946] units: 1.000e-08  
unique values: 15 missing : 85/101

mean: 13.952  
std. dev: 12.5797

percentiles:       10%       25%       50%       75%       90%  
                 .218845   2.46703   10.2374   25.6962   34.7651

---

a\_prisd\_unspecified Primary SD: Unspecified (A)

---

type: numeric (double)

range: [.36323768,90.631969] units: 1.000e-14  
unique values: 58 missing : 43/101

mean: 29.0559  
std. dev: 16.6692

percentiles:       10%       25%       50%       75%       90%  
                 8.48216   18.4125   27.6069   36.818   53.3928

---

a\_secondary\_sd Secondary Service Delivery (A)

---

type: numeric (double)

range: [0,12.659739] units: 1.000e-07  
unique values: 9 missing : 90/101

tabulation: Freq. Value

```

1 0
1 3.1556609
1 3.5223045
1 3.5773406
2 3.6110077
2 9.5874891
1 10.328146
1 12.488043
1 12.659739
90 .

```

---

```

a_secsd_hct                                     Secondary SD: HIV Counseling and Testing (A)

```

---

```

type: numeric (double)

range: [0,10.328146]          units: 1.000e-07
unique values: 7              missing .: 92/101

tabulation: Freq. Value
1 0
1 3.1556609
1 3.5223045
1 3.5773406
2 3.6110077
2 9.5874891
1 10.328146
92 .

```

---

```

a_ancillary                                     Ancillary (A)

```

---

```

type: numeric (double)

range: [.2896816,11.787558]    units: 1.000e-07
unique values: 11              missing .: 89/101

mean: 3.53092
std. dev: 3.99987

percentiles:    10%    25%    50%    75%    90%
               .307095 .646213 2.26472 4.06896 11.4529

```

---

```

a_anc_demand_generation                       Ancillary: Demand Generation (A)

```

---

```

type: numeric (double)

range: [.2896816,3.9291861]    units: 1.000e-07
unique values: 9              missing .: 89/101

```



```

tabulation: Freq. Value
            1 .28968161
            1 .30709451
            1 .52365518
            1 .7576288
            2 2.022588
            1 2.50686
            1 2.5514264
            2 3.6474142
            2 3.9291861
            89 .

```

-----  
a\_anc\_lab\_services

Ancillary: Lab Services (A)  
-----

```

type: numeric (double)

range: [0,6.7357473]      units: 1.000e-07
unique values: 3          missing .: 98/101

```

```

tabulation: Freq. Value
            1 0
            1 6.2527099
            1 6.7357473
            98 .

```

-----  
a\_anc\_adhreten

Ancillary: Adherence/Retention (A)  
-----

```

type: numeric (float)

range: [.,.]      units: .
unique values: 0   missing .: 101/101

```

```

tabulation: Freq. Value
            101 .

```

-----  
a\_anc\_unspecified

Ancillary: Unspecified (A)  
-----

```

type: numeric (double)

range: [0,1.5527563]      units: 1.000e-08
unique values: 5          missing .: 93/101

```

```

tabulation: Freq. Value
            4 0
            1 .0111416
            1 .56131226
            1 1.1226245
            1 1.5527563

```

---

a\_mix\_mixed Ancillary: Mixed (A)

---

type: numeric (double)

range: [15.527563,32.667171]      units: 1.000e-06  
unique values: 3      missing : 98/101

tabulation: Freq. Value

1	15.527563
1	18.580971
1	32.667171
98	.

---

a\_operational Operational (A)

---

type: numeric (double)

range: [.89809966,100.90832]      units: 1.000e-10  
unique values: 54      missing : 43/101

mean: 19.3448  
std. dev: 18.3597

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

1.64137	5.7045	14.0987	28.5916	36.745
---------	--------	---------	---------	--------

---

a\_ope\_bldg equip\_main Operational: Buildings and Equipment (A)

---

type: numeric (double)

range: [0,39.996502]      units: 1.000e-08  
unique values: 31      missing : 59/101

mean: 4.47881  
std. dev: 7.34888

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

0	.317684	2.0222	4.10926	11.8435
---	---------	--------	---------	---------

---

a\_ope\_logistics Operational: Logistics (A)

---

type: numeric (double)

range: [9.9313879,21.056778]      units: 1.000e-07

unique values: 4 missing .: 97/101

tabulation: Freq. Value  
1 9.9313879  
1 10.098126  
1 12.735332  
1 21.056778  
97 .

---

a\_ope\_program\_mgmt Operational: Program Management (A)

---

type: numeric (double)  
range: [1.228378,1.228378] units: 1.000e-06  
unique values: 1 missing .: 100/101  
tabulation: Freq. Value  
1 1.2283781  
100 .

---

a\_ope\_supervision Operational: Supervision (A)

---

type: numeric (double)  
range: [.01042118,12.675591] units: 1.000e-09  
unique values: 16 missing .: 80/101  
mean: 4.4374  
std. dev: 5.26343  
percentiles: 10% 25% 50% 75% 90%  
.031264 .222832 .990012 11.3519 11.3519

---

a\_ope\_training Operational: Training (A)

---

type: numeric (double)  
range: [.09379065,65.049026] units: 1.000e-08  
unique values: 37 missing .: 57/101  
mean: 4.00389  
std. dev: 10.0338  
percentiles: 10% 25% 50% 75% 90%  
.273446 .491622 1.06917 3.74993 10.2336

---

a\_ope\_transportation Operational: Transportation (A)

---

---

```

type: numeric (double)

range: [0,8.7795811]          units: 1.000e-07
unique values: 6              missing : 94/101

```

```

tabulation: Freq. Value
              1  0
              2  .57517463
              1  1.8606472
              1  4.4009318
              1  4.5234895
              1  8.7795811
              94  .

```

---

```

a_ope_massed                      Operational: Mass Education (A)

```

---

```

type: numeric (float)

range: [.,.]          units: .
unique values: 0      missing : 101/101

```

```

tabulation: Freq. Value
              101  .

```

---

```

a_ope_hmis                      Operational: HMIS and Record-Keeping (A)

```

---

```

type: numeric (float)

range: [.,.]          units: .
unique values: 0      missing : 101/101

```

```

tabulation: Freq. Value
              101  .

```

---

```

a_ope_unspecified                Operational: Unspecified (A)

```

---

```

type: numeric (double)

range: [1.1140385,45.915735]    units: 1.000e-15
unique values: 49              missing : 49/101

mean: 11.3224
std. dev: 10.7179

percentiles:      10%      25%      50%      75%      90%
                  1.56318  2.90751  9.26424  14.9799  20.3963

```

-----  
a\_mixed

Mixed (A)  
-----

type: numeric (double)

range: [15.527563,32.667171]

units: 1.000e-06

unique values: 3

missing .: 98/101

tabulation: Freq. Value  
              1 15.527563  
              1 18.580971  
              1 32.667171  
             98 .