

# Data Validation Exercise before Entry into UCSR

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February 2, 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

---

study

Study

type: string (str6)

unique values: 6

missing "": 0/47

tabulation: Freq. Value  
3 "hiv200"  
2 "hiv201"  
11 "hiv202"  
3 "hiv203"  
12 "hiv205"  
16 "hiv206"



---

collapsed

Collapsed

type: string (str2)

unique values: 1

missing "": 0/47

tabulation: Freq. Value  
47 "No"

---

Flags

(unlabeled)

type: string (str1)

unique values: 1 missing "": 0/47

tabulation: Freq. Value  
47 "."

---

id ID Variable

---

type: string (str7)

unique values: 29 missing "": 0/47

examples: "hiv202b"  
"hiv203b"  
"hiv205i"  
"hiv206c"

---

unit\_cost Unit Cost ID


---

type: string (str11)

unique values: 47 missing "": 0/47

examples: "hiv202b\_i"  
"hiv203b\_i"  
"hiv205i\_i"  
"hiv206c\_ii"

---

lead\_author  Lead Author

---

type: string (str9)

unique values: 6 missing "": 0/47

tabulation: Freq. Value  
3 "Benzaken "  
11 "Carrara"  
3 "Dandona"  
2 "Gilson"  
12 "Parker"  
16 "Shelley"

warning: variable has trailing blanks

---

ref\_author Reference Authors

---

type: string (str114)

unique values: 6 missing "": 0/47

tabulation: Freq. Value

3	"Benzaken, A. S., Sabid, M., Galban, E. G., Pedroza, V., Vasquez, F., Arajo, A., ... & Mayaud, P."
11	"Carrara, V., Terris-Prestholt, F., Kumaranayake, L., & Mayaud, P."
3	"Dandona, L., Sisodia, P., Prasad, T. L. N., Marseille, E., Rao, M. C., Kumar, A. A., ... & Kahn, J. G."
2	"Gilson, L., Mkanje, R., Grosskurth, H., Mosha, F., Picard, J., Gavyole, A., ... & Mabey, D"
12	"Parker, K. A., Koumans, E. H., Hawkins, R. V., Massanga, M., Somse, P., Barker, K., & Moran, J."
16	"Shelley, K. D., Ansbro, . M., Ncube, A. T., Sweeney, S., Fleischer, C., Mumba, G. T., ... & Terris-Prestholt, F."

warning: variable has embedded blanks

ref\_year



Reference Year

type: numeric (int)

range: [1997,2015]

units: 1

unique values: 6

missing .: 0/47

tabulation: Freq. Value

2	1997
12	1999
11	2004
3	2005
3	2008
16	2015

title

Title


type: string (str199)

unique values: 6

missing "": 0/47

tabulation: Freq. Value

3	"Cost and efficiency of public sector sexually transmitted infection clinics in Andhra Pradesh, India"
---	--

- 2 "Cost-effectiveness of improved treatment services for sexually transmitted diseases in preventing HIV-1 infection in Mwanza Region, Tanzania "
- 3 "Field evaluation of the performance and testing costs of a rapid point-of-care test for syphilis in a red-light district of Manaus, Brazil "
- 11 "Operational and economic evaluation of an NGO-led sexually transmitted infections intervention: north-Western Cambodia" 
- 12 "Providing Low-Cost Sexually Transmitted Diseases Services in Two Semi-Urban Health Centers in Central African Republic (CAR): Characteristics of Patients and Patterns of Health Care-Seeking Behavior "
- 16 "Scaling Down to Scale Up: A Health Economic Analysis of Integrating Point-of-Care Syphilis Testing into Antenatal Care in Zambia during Pilot and National Rollout Implementation"

warning: variable has embedded and trailing blanks

---

journal\_etc



Journal

---

type: string (str41)

unique values: 6

missing "": 0/47

tabulation:	Freq.	Value
	3	"BMC Health Services Research "
	11	"Bulletin of the World Health Organization"
	16	"Plos one"
	3	"Sex Transm Infect "
	12	"Sexually Transmitted Diseases "
	2	"The lancet"

warning: variable has embedded and trailing blanks

---

url

URL

---

type: string (str242)

unique values: 6

missing "": 0/47

tabulation:	Freq.	Value
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```

3 "https://www.ncbi.nlm.nih.gov/pubmed/?term=Cost+and+efficiency+of+public+sector+sexually+transmitted+infection+clinics+in+Andhra+Pradesh%2C+India"
2 "https://www.ncbi.nlm.nih.gov/pubmed/?term=Cost-effectiveness+of+improved+treatment+services+for+sexually+transmitted+diseases+in+preventing+HIV-1+infection+in+Mwanza+Region%2C+Tanzania"
3 "https://www.ncbi.nlm.nih.gov/pubmed/?term=Field+evaluation+of+the+performance+and+testing+costs+of+a+rapid+point-of-care+test+for+syphilis+in+a+red-light+district+of+Manaus%2C+Brazil"
11 "https://www.ncbi.nlm.nih.gov/pubmed/?term=Operational+and+economic+evaluation+of+an+NGO-led+sexually+transmitted+infections+intervention%3A+north-Western+Cambodia"
12 "https://www.ncbi.nlm.nih.gov/pubmed/?term=Providing+Low-Cost+Sexually+Transmitted+Diseases+Services+in+Two+Semi-Urban+Health+Centers+in+Central+African+Republic+(CAR)%3A+Characteristics+of+Patients+and+Patterns+of+Health+Care-Seeking+Behavior"
16 "https://www.ncbi.nlm.nih.gov/pubmed/?term=Scaling+Down+to+Scale+Up%3A+A+Health+Economic+Analysis+of+Integrating+Point-of-Care+Syphilis+Testing+into+Antenatal+Care+in+Zambia+during+Pilot+and+National+Rollout+Implementation"

```

-----  
ownership

Ownership  
-----

type: string (str17)

unique values: 4

missing "": 0/47

tabulation:	Freq.	Value
	3	"."
	11	"International NGO"
	16	"Mixed"
	17	"Public"

warning: variable has embedded blanks

-----  
id\_facility

Facility Category  
-----

type: string (str4)

unique values: 4 missing "": 0/47

tabulation: Freq. Value  
30 "HC02"  
3 "HC04"  
2 "HC10"  
12 "HC11"



---

platform Platform

---

type: string (str15), but longest is str14

unique values: 1 missing "": 0/47

tabulation: Freq. Value  
47 "Fixed facility"

warning: variable has embedded blanks

---

id\_class Intervention Class

---

type: string (str10)

unique values: 1 missing "": 0/47

tabulation: Freq. Value  
47 "Prevention"

---

id\_type Intervention Type

---

type: string (str42)

unique values: 2 missing "": 0/47

tabulation: Freq. Value  
19 "Sexually Transmitted Infections"  
28 "Sexually Transmitted Infections management"



warning: variable has embedded blanks


---

id\_modality Delivery Modality

---

type: string (str1)

unique values: 1 missing "": 0/47

tabulation: Freq. Value   
47 "."


---

disease Disease

---

type: string (str8)

unique values: 2 missing "": 0/47

tabulation: Freq. Value   
44 "STDs"  
3 "Syphilis"


---

id\_tech (unlabeled)

---

type: string (str1)

unique values: 1 missing "": 0/47

tabulation: Freq. Value   
47 "."

---

id\_tech\_diag Technology for diagnosis

---

type: string (str41)

unique values: 3 missing "": 0/47

tabulation: Freq. Value  
28 "."  
16 "SD Bioline RST; confirmatory RPR test  
kit"  
3 "VisiTect, FTA-Abs, VDRL"

warning: variable has embedded blanks

---

id\_tech\_treat Technology for treatment

---

type: string (str89)

unique values: 13 missing "": 0/47

examples: "."  
"Benzathine penicillin (2.5 MU 1 dose)"

"Benzathine penicillin (2.5 MU 1 dose)"  
 "benzathine penicillin"



warning: variable has embedded blanks

---

id\_tech\_prevention Technology for prevention

---

type: string (str7)

unique values: 3 missing "": 0/47

tabulation: Freq. Value

35	"."
8	"Condoms"
4	"condoms"




---

id\_phase Phase

---

type: string (str3), but longest is str1

unique values: 1 missing "": 0/47

tabulation: Freq. Value

47	"."
----	-----

---

int\_description\_long Intervention Description (Long)

---

type: string (str1490)

unique values: 7 missing "": 0/47

tabulation: Freq. Value

3	"
---	---

We included STI clinics in the

government-run public sec- tor hospitals for this study. These clinics provide services predominantly to the poor at no or minimal fee, and many persons receiving services here have relatively advanced STIs. At the time of starting data collection for this study in mid-2004, 85 public sector clinics were func- tioning. Of these, 28 STI clinics had been functioning since the 1960's in the state capital and the district head- quarters as part of the medical college hospitals and other major public hospitals of Andhra Pradesh. In



addition, 57 STI clinics were formally designated in mid-2002 in public hospitals, in district headquarter hospitals and in area hospitals located in smaller jurisdictions. Generally, the STI care in medical college hospitals and district headquarter hospitals is provided in distinct separate clinics, whereas in area hospitals it is provided as part of the general outpatient."

- 8 "A centralized two-day RST training workshop took place before RST was integrated within existing clinic staffing patterns, patient flow, and clinic processes alongside other routine antenatal POC tests (HIV, malaria, and haemoglobin). The pilot utilized SD BIOLINE Syphilis 3.0, a rapid POC syphilis antibody test produced by Standard Diagnostics (Yongin-Si, South Korea), with a manufacturer reported 99.3% sensitivity and 99.5% specificity in serum versus the gold standard *Treponema pallidum* haemagglutination (TPHA) test ; of note, a recent meta-analysis of the diagnostic accuracy of SD Bioline 3.0 in field conditions reported a lower pooled sensitivity (87.9% serum; 83.8% whole blood) and specificity (96.0% serum; 98.4% whole blood). Pilot-specific QA and quality control (QC) measures were established to ensure high standards of quality management. The pilot results showed increased syphilis testing among ANC attendees (79.9% versus 95.6%,  $p<0.0001$ ) and treatment of syphilis positive pregnant women (51.1% versus 95.2%,  $p<0.0001$ ), and demonstrated the feasibility of integrating RST within busy urban and rural ANC settings in Zambia. Zambian syphilis treatment guideline pre-RST adoption was three weekly doses of Benzathine Penicillin (BP). During the pilot, patients were given one documented dose of BP following a positive RST test.

"

- 3 "Between May and October 2006, consecutive unselected patients with no age restriction presenting at the FUAM harbour clinic who showed interest in being screened with the rapid POC VisiTest Syphilis test (Omega

Diagnostics, Alloa, Scotland) were invited to participate in the study. We included male and female sex workers, sex worker clients, and other patients living and working in the area who accessed the clinic. A sex worker client was defined as those men or women who reported having had sex with a male or female sex worker in the last 12 months. At the end of each clinic, venous blood samples were transferred to the FUAM laboratory. A laboratory technician, blind to the POC test results, tested sera using the FTA-Abs (WAMA Diagnostica, S ao Paulo, Brazil) and VDRL (Winer Laboratorios, Rosario, Argentina), and VDRL titres were determined. The reference standard test for syphilis was FTA-Abs. This widely used test was considered the most appropriate comparator since the rapid POC test was also Treponema specific. Active syphilis was defined as sera reactive with both FTA-Abs and VDRL, with high and low titre active syphilis defined based on VDRL titres > or ,1:8, respectively. Participants with a positive POC test were treated immediately with one intramuscular injection of 2.4 MU benzathine penicillin."

- 12 "Paramedical health workers (medical assistants or nurses) were selected at each site to receive training in three programmatic areas: clinical management of STDs using simple algorithms adapted from those recommended by the World Health Organization, patient education and counseling. A complementary step-by-step job aid detailing the sequence and content of the clinical encounter was given to the providers and their supervisors. A minimum of two workers were trained at each site to prevent the interruption of services in the event of illness, vacation, and attrition. One trained worker at each site was then dedicated to the delivery of STD care using a private consultation room designated for that purpose in the OPD building.

Patients presented at the

outpatient registration and triage; they could be self-referred (with symptoms or

- referral vouchers) or referred by the maternal and child health clinic or school health service. After history taking and a clinical examination, the provider explained the diagnosis and treatment to each patient. Single dose oral therapy and initial doses of multidose therapy (e.g., ciprofloxacin and doxycycline, respectively) were taken in the provider's presence. Providers then offered partner referral vouchers and explained the importance of partner treatment. The visit ended with a discussion and demonstration of condom use using a wooden model of a penis. Patients received drugs for a complete treatment and a packet of four condoms."
- 11 "The MSF project initially aimed to offer STI clinical services and outreach on HIV/AIDS prevention and condom distribution to these sex workers and their clients. Both clinics were located near red-light districts and marketplaces to facilitate access for clients. The clinics also accepted patients presenting with non-STI related complaints as well as members of the general population. STI case management at the MSF clinics included taking a detailed history and assessing the risk of being infected with an STI, clinical examination (including a speculum examination for women), health education, promotion of condom use, and treatment using the syndromic approach. STI index patients were provided with a contact slip to allow them to notify their sexual partners; these partners were treated in accordance with the patients syndrome, irrespective of the presence of symptoms. "
- 2 "The intervention was designed to be replicable and sustainable in the rural Tanzanian setting, and had five main elements. Primary-health-care workers from all health units in each community were trained to recognise and treat STDs by use of syndromic treatment algorithms. The primary-health-care workers were provided with simple equipment required for diagnosis of STDs , and a regular supply of appropriate drugs and consumables was assured. Supervisory visits were made roughly

every 6 weeks to review the treatments prescribed by the primary-health-care workers and to provide further informal training. A health education team visited the villages served by each health unit every 6 months to encourage prompt attendance for STD treatment. A reference clinic was established in Mwanza town to act as a training centre for rural primary-health-care workers and to monitor the aetiology of STD syndromes and the effectiveness of the treatment algorithms."

8 "Treatment alogorithm: Treat with one dose of BP following positive RST result; run RPR confirmation and if active infection confirmed, treat with two additional doses of BP. If RPR confirmation unavailable, continue 2nd and 3rd weekly dose of BP.

"

warning: variable has embedded and trailing blanks

---

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

---

type: string (str2)

unique values: 7                      missing "": 0/47

tabulation:	Freq.	Value
	2	"1"
	12	"10"
	16	"3"
	1	"4"
	4	"5"
	1	"6"
	11	"7"

---

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

---

type: string (str4)

unique values: 9                      missing "": 0/47

tabulation:	Freq.	Value
	2	"1992"
	12	"1993"
	11	"1997"
	1	"2003"

```

1 "2004"
1 "2005"
3 "2006"
8 "2010"
8 "2012"

```

---

```

end_monthEnd Month

```

---

```

type: string (str2)

unique values: 7missing "": 0/47

tabulation: Freq. Value
             12 "1"
             3  "10"
            13 "12"
             1  "3"
             1  "4"
             1  "5"
            16 "7"

```

---

```

end_yearEnd Year

```

---

```

type: string (str4)

unique values: 7missing "": 0/47

tabulation: Freq. Value
             2 "1993"
            12 "1996"
            11 "1999"
             3 "2004"
             3 "2006"
             8 "2010"
             8 "2012"

```

---

```

period_portrayedTotal Months

```

---

```

type: numeric (byte)

range: [5,30]units: 1
unique values: 6missing .: 0/47

tabulation: Freq. Value
             16 5
              3 6
              3 12
              2 24

```

12 28  
11 30

---

coverage	Coverage
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---

type: numeric (byte)

range: [.,.]                      units: .  
unique values: 0                      missing .: 47/47

tabulation: Freq. Value  
                 47 .


---

int_services	Integrated Services
--------------	---------------------

---

type: string (str20)

unique values: 2                      missing "": 0/47

tabulation: Freq. Value                        
                 31 "Integrated"  
                 16 "Partially integrated"

warning: variable has embedded blanks



---

country 	Country
---	---------

---

type: string (str25)

unique values: 6                      missing "": 0/47

tabulation: Freq. Value  
                 3 "Brazil"  
                 11 "Cambodia "  
                 12 "Central African Republic "  
                 3 "India"                        
                 2 "Tanzania"                        
                 16 "Zambia"

warning: variable has embedded and trailing blanks

---

region	Region
--------	--------

---

type: string (str4)

unique values: 3                      missing "": 0/47

```

tabulation: Freq. Value
              14 "Asia"
              3  "LAC"
              30 "SSA"

```



pop\_density

Urbanicity

```

type: string (str10)

unique values: 4          missing "": 0/47

tabulation: Freq. Value
              11 "Mixture"
              12 "Peri-Urban"
               6 "Rural"
              18 "Urban"

```

neonates

Target group (demographic)

```

type: numeric (float)
label: neonates

range: [0,0]          units: 1
unique values: 1      missing .: 0/47

tabulation: Freq. Numeric Label
              47         0  Adults and/or Adolescents

```



location

Location

```

type: string (str97)

unique values: 7          missing "": 0/47

tabulation: Freq. Value
              3 "Andhra Pradesh state"
             12 "Bambari and Bria"
             11 "Banteay Meanchey province "
               3 "Manaus "
               8 "Mansa (Luapula Province), Kalomo
                 (Southern Province), and Lundazi and
                 Nyimba (Eastern Province). "
               8 "Mongu and Lusaka"
               2 "Mwanza"

```



warning: variable has embedded and trailing blanks

---

ss_unique_trait	Unique Trait
-----------------	--------------

---

type: string (str74)

unique values: 29                      missing "": 0/47

examples: "Phase: Pilot. Setting: Urban"  
"Phase: Rollout. Setting: all"  
"Syndrome: pelvic Inflammatory Disease (PID).  
Population: non-pregnant women"  
"Year of program implementation: 1997"

warning: variable has embedded and trailing blanks


---

id_pop_dem_std		Population served
----------------	---	-------------------

---

type: string (str30), but longest is str23

unique values: 6                      missing "": 0/47

tabulation: Freq. Value                      

2	"general population"
3	"FSWs; MSWs; SW clients"
11	"FSWs; MSWs; SW partners"
3	"FSWs; SW partners"
16	"Women on ANC"
12	"general population"

warning: variable has leading and embedded blanks


---

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

---

type: string (str10)

unique values: 4                      missing "": 0/47

tabulation: Freq. Value                      

41	"."
3	"27.9"
2	"28"
1	"70-75% >19"

warning: variable has embedded blanks

---

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

---



```

type: string (str11)

unique values: 7                                missing "": 0/47

tabulation: Freq. Value
              29 "."
              11 "17% males"
               1 "35.8% males"
               1 "5.1% males"
               1 "54-57% male"
               3 "60% females"
               1 "66.3% males"

```



warning: variable has embedded blanks

---

pop\_sesSES

---

```

type: string (str2), but longest is str1

unique values: 1                                missing "": 0/47

tabulation: Freq. Value
              47 "."

```

---

pop\_educationEducation

---

```

type: string (str37)

unique values: 2                                missing "": 0/47

tabulation: Freq. Value
              44 "."
               3 "52% didn't complete elementary school"

```



warning: variable has embedded blanks

---

pop\_couplesCouples

---

```

type: string (str3)

unique values: 2                                missing "": 0/47

tabulation: Freq. Value
              36 "."
              11 ".13"

```




---

hiv\_prevHIV Prevalence

---

```

-----
type: string (str9)

unique values: 6                                missing "": 0/47

tabulation: Freq. Value
              27  "."
              3  ".025"
              2  ".04"
              1  ".22"
             11  ".41"
              3  "1630% "
warning: variable has trailing blanks

```

```

-----
cd4_med                                         Median CD4 Count
-----

```

```

type: string (str1)

unique values: 1                                missing "": 0/47

tabulation: Freq. Value
              47  "."

```

```

-----
cd4_range                                         CD4 Range
-----

```

```

type: string (str2), but longest is str1

unique values: 1                                missing "": 0/47

tabulation: Freq. Value
              47  "."

```

```

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

```

```

type: string (str2), but longest is str1

unique values: 1                                missing "": 0/47

tabulation: Freq. Value
              47  "."

```

```

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

```

```

type: string (str3), but longest is str1

```

unique values: 1 missing "": 0/47

tabulation: Freq. Value  
47 "."

---

costing\_purpose\_cat Costing Purpose

---

type: string (str26)

unique values: 4 missing "": 0/47

tabulation: Freq. Value  
12 "Tech efficiency analysis"  
5 "econ eval/priority setting"  
27 "mixed"  
3 "tech efficiency analysis"

warning: variable has embedded blanks

---

timing Timing

---

type: string (str15)

unique values: 1 missing "": 0/47

tabulation: Freq. Value  
47 "cross-sectional"

---

country\_sampling Country Sampling

---

type: string (str3), but longest is str1

unique values: 1 missing "": 0/47

tabulation: Freq. Value  
47 "."

---

geo\_sampling\_incountry Geographic Area In Country Sampling

---

type: string (str9)

unique values: 3 missing "": 0/47

tabulation: Freq. Value  
15 "."

2 "cluster"  
30 "purposive"

---

site\_sampling Site Sampling

---

type: string (str14)

unique values: 5 missing "": 0/47

tabulation: Freq. Value

12	"."
3	"cluster"
11	"convenience"
11	"entire program"
10	"purposive"

warning: variable has embedded blanks

---

px\_sampling Patient Sampling

---

type: string (str14)

unique values: 4 missing "": 0/47

tabulation: Freq. Value

39	"."
3	"convenience"
3	"entire program"
2	"random"

warning: variable has embedded blanks

---

sample\_size\_derived Sample size formally derived

---

type: string (str2)

unique values: 1 missing "": 0/47

tabulation: Freq. Value

47	"no"
----	------

---

controls Controls

---

type: string (str3)

unique values: 2 missing "": 0/47

```

tabulation: Freq. Value
              45 "."
              2  "yes"

```




---

```

econ_perspective_actual                                     Perspective

```

---

```

type: string (str8)

unique values: 1                                     missing "": 0/47

tabulation: Freq. Value
              47 "provider"

```

---

```

econ_costing                                               Economic / Financial

```

---

```

type: string (str14)

unique values: 2                                     missing "": 0/47

tabulation: Freq. Value
              35 "economic"
              12 "financial only"

```



```

warning: variable has embedded blanks

```

---

```

real_world                                                 Real World / Per Protocol

```

---

```

type: string (str10)

unique values: 2                                     missing "": 0/47

tabulation: Freq. Value
              2  "mix"
              45 "real world"

```

```

warning: variable has embedded blanks

```

---

```

asd_costs                                                  Above Service Costs Included

```

---

```

type: string (str19)

unique values: 3                                     missing "": 0/47

tabulation: Freq. Value
              12 "."

```

6 "no costs included"  
29 "some costs included"

warning: variable has embedded blanks


---

list\_asd\_costs Above Service Cost List

---

type: string (str204)

unique values: 6 missing "": 0/47

tabulation:	Freq.	Value
	15	"."
	8	"Supervision; Central personnel; vehicle operation/maintenance; vehicle capital"
	8	"Supervision; Central personnel; vehicle operation/maintenance; vehicle capital; quality assurance/control; incoming inspection; external quality control; external quality assurance; confirmatory retesting"
	2	"Training manuals; training hall; training supervisors and central support"
	11	"Traininig, Supervision and shared costs related to setting up buildings"
	3	"none" 

warning: variable has embedded blanks

---

research\_costs Research Costs Included

---

type: string (str8)

unique values: 2 missing "": 0/47

tabulation:	Freq.	Value
	26	"."
	21	"excluded"

---

unrelated\_costs Unrelated Costs Included

---

type: string (str1)

unique values: 1 missing "": 0/47

tabulation:	Freq.	Value
	47	"."

---

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

---

```
type: string (str3)

unique values: 2          missing "": 0/47

tabulation: Freq. Value
              16 "Yes"
              31 "no"
```

---

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

---

```
type: string (str347)

unique values: 5          missing "": 0/47

tabulation: Freq. Value
              3 "."
              2 "Office equipment and furniture,
                vehicles, field equipment and equipment
                for PHCWs"
             11 "buildings, capital equipment items and
                vehicles"
             28 "none"
              3 "outpatient and inpatient furniture,
                electrical fixtures, refrigerator,
                centrifuge, microscope, needle and
                syringe destroyer, water bath, slide
                rotator, water filter, sterilizer, and
                weighing machine. cleaning and building
                maintenance, electricity, water,
                telephone, gas/oil, waste disposal, the
                occasional training of staff during that
                fiscal year"
```

```
warning: variable has embedded blanks
```

---

omitted_costs	Author-reported Omitted Costs
---------------	-------------------------------

---

```
type: string (str147), but longest is str71

unique values: 2          missing "": 42/47

tabulation: Freq. Value
              42 ""
              3 "Costs of infrastructure, training and
                supervision "
```

2 "health-unit staff, routine supervision,  
and general capital investment "

warning: variable has embedded and trailing blanks

---

volunteer\_time Valuing Volunteer Time

---

type: string (str1)

unique values: 1 missing "": 0/47

tabulation: Freq. Value  
47 ". "

---

family\_time Valuing Family Time

---

type: string (str3), but longest is str1

unique values: 1 missing "": 0/47

tabulation: Freq. Value  
47 ". "

---

currency\_yr Reported Currency Year

---

type: numeric (int)

range: [1993,2012] units: 1  
unique values: 7 missing .: 0/47

tabulation: Freq. Value  
2 1993  
12 1994  
11 2002  
3 2004  
3 2006  
8 2010  
8 2012

---

iso\_code Reported Currency

---

type: string (str3)

unique values: 1 missing "": 0/47

tabulation: Freq. Value



47 "USD"

---

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

---

type: string (str11)

unique values: 2                      missing "": 0/47

tabulation: Freq. Value

12	"."
35	"market only"

warning: variable has embedded blanks

---

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

---

type: numeric (double)

range: [2.14,5219.83]                      units: .01

unique values: 6                      missing .: 12/47

tabulation: Freq. Value

3	2.14
11	36.5
3	45.95
2	479.87
8	4743.98
8	5219.83
12	.

---

discount_rate	Discount Rate
---------------	---------------

---

type: numeric (double)

range: [.03,.03]                      units: 1

unique values: 1                      missing .: 18/47

tabulation: Freq. Value

29	.03
18	.

---

sensitivity_analysis	Sensitivity Analysis
----------------------	----------------------

---

type: string (str13)

unique values: 3                      missing "": 0/47

```

tabulation: Freq. Value
              21 "comprehensive"
              11 "limited"
              15 "none"

```

---

```

uncertainty_rmk                                     Uncertainty Remarks


```

---

```

type: string (str4)

unique values: 1                                missing "": 0/47

tabulation: Freq. Value
              47 "none" 

```

---

```

mean_cost                                           Mean Unit Cost

```

---

```

type: numeric (double)

range: [.64795708,183.65781]          units: 1.000e-08
unique values: 45                    missing .: 0/47

mean: 38.2974
std. dev: 51.546

percentiles:      10%      25%      50%      75%      90%
                  2.80123  5.63485  13.5961  57.0146  122.996

```

---

```

si_capital                                         Capital (SI)

```

---

```

type: numeric (double)

range: [4.1332435,14.087191]          units: 1.000e-07
unique values: 2                      missing .: 45/47

tabulation: Freq. Value
              1  4.1332435
              1  14.087191
              45  .

```

---

```

si_mixed                                           Mixed (SI)

```

---

```

type: numeric (double)

range: [.,.]                                units: .
unique values: 0                          missing .: 47/47

```

tabulation: Freq. Value  
47 .

---

si\_personnel Personnel (SI)

---

type: numeric (double)  
range: [1.2816259,31.082287] units: 1.000e-07  
unique values: 5 missing .: 42/47

tabulation: Freq. Value  
1 1.2816259  
1 9.4956684  
1 9.9115562  
1 18.660074  
1 31.082287  
42 .


---

si\_recurrent Recurrent Goods (SI)

---

type: numeric (double)  
range: [2.8012304,17.899778] units: 1.000e-08  
unique values: 17 missing .: 30/47  
  
mean: 7.54972  
std. dev: 4.20387  
  
percentiles: 10% 25% 50% 75% 90%  
3.68454 5.27862 5.71581 8.29035 14.3462

---

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

---

type: numeric (double)  
range: [.38786046,.38786046] units: 1.000e-08  
unique values: 1 missing .: 46/47

tabulation: Freq. Value  
1 .38786046  
46 .

---

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

---

type: numeric (double)

range: [2.778666,2.778666] units: 1.000e-06  
unique values: 1 missing : 46/47

tabulation: Freq. Value  
1 2.778666  
46 .

---

si\_cap\_other Capital: Other capital (SI)

---

type: numeric (double)

range: [1.6374457,3.2956271] units: 1.000e-07  
unique values: 2 missing : 45/47

tabulation: Freq. Value  
1 1.6374457  
1 3.2956271  
45 .

---

si\_mix\_mixed Mixed: Mixed (SI)

---

type: numeric (double)

range: [.,.] units: .  
unique values: 0 missing : 47/47

tabulation: Freq. Value  
47 .

---

si\_per\_mixed\_unspec Personnel: Direct Service Delivery (SI)

---

type: numeric (double)

range: [9.495668,31.082287] units: 1.000e-06  
unique values: 4 missing : 43/47

tabulation: Freq. Value  
1 9.4956684  
1 9.9115562  
1 18.660074  
1 31.082287  
43 .

---

si\_per\_service\_delivery Personnel: Support (SI)

---

```

type: numeric (float)
range: [.,.]
unique values: 0
units: .
missing .: 47/47

```

```

tabulation: Freq. Value
            47 .

```

---

```

si_per_support                                     Personnel: Mixed Unspecified (SI)

```

---

```

type: numeric (double)
range: [1.2816259,1.2816259]
unique values: 1
units: 1.000e-07
missing .: 46/47

```

```

tabulation: Freq. Value
            1 1.2816259
            46 .

```

---

```

si_rec_building_space                             Recurring: Building Space (SI)

```

---

```

type: numeric (double)
range: [1.0061114,2.3054919]
unique values: 4
units: 1.000e-07
missing .: 43/47

```

```

tabulation: Freq. Value
            1 1.0061114
            1 1.2924027
            1 1.7105672
            1 2.3054919
            43 .

```

---

```

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

```

---

```

type: numeric (double)
range: [3.5076077,9.5637805]
unique values: 2
units: 1.000e-07
missing .: 45/47

```

```

tabulation: Freq. Value
            1 3.5076077
            1 9.5637805
            45 .

```

---

```

si_rec_nonmed_int_supplies                       Recurring: Non-medical Supplies (SI)

```

---

```

type: numeric (double)
range: [.16863498,2.0678444] units: 1.000e-08
unique values: 2 missing : 45/47

```

```

tabulation: Freq. Value
              1 .16863498
              1 2.0678444
             45 .

```

---

```

a_ancillary Ancillary (A)

```

---

```

type: numeric (float)
range: [.,.] units: .
unique values: 0 missing : 47/47

```

```

tabulation: Freq. Value
              47 .

```

---

```

a_mixed Mixed (A)

```

---

```

type: numeric (double)
range: [.,.] units: .
unique values: 0 missing : 47/47

```

```

tabulation: Freq. Value
              47 .

```

---

```

a_operational Operational (A)

```

---

```

type: numeric (double)
range: [2.8012304,58.739707] units: 1.000e-07
unique values: 17 missing : 30/47

```

```

mean: 11.1524
std. dev: 12.8982

```

```

percentiles: 10% 25% 50% 75% 90%
              4.82524 5.63485 6.93258 9.91156 18.6601

```

---

```

a_primary_sd Primary Service Delivery (A)

```

---

```

        type: numeric (double)

        range: [4.8229606,4.8229606]          units: 1.000e-07
unique values: 1                             missing .: 46/47

        tabulation: Freq. Value
                     1  4.8229606
                     46  .

```

---

```

a_secondary_sd                                     Secondary Service Delivery (A)

```

---

```

        type: numeric (float)

        range: [.,.]                          units: .
unique values: 0                             missing .: 47/47

        tabulation: Freq. Value
                     47  .

```

---

```

a_anc_demand_generation                             Ancillary: Demand Generation (A)

```

---

```

        type: numeric (float)

        range: [.,.]                          units: .
unique values: 0                             missing .: 47/47

        tabulation: Freq. Value
                     47  .

```

---

```

a_anc_lab_services                                 Ancillary: Lab Services (A)

```

---

```

        type: numeric (float)

        range: [.,.]                          units: .
unique values: 0                             missing .: 47/47

        tabulation: Freq. Value
                     47  .

```

---

```

a_anc_unspecified                                 Ancillary: Unspecified (A)

```

---

```

        type: numeric (float)

        range: [.,.]                          units: .
unique values: 0                             missing .: 47/47

```

tabulation: Freq. Value  
47 .

---

a\_mix\_mixed Ancillary: Mixed (A)

---

type: numeric (double)  
range: [.,.] units: .  
unique values: 0 missing .: 47/47

tabulation: Freq. Value  
47 .

---

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

---

type: numeric (double)  
range: [.15177149,11.890106] units: 1.000e-12  
unique values: 2 missing .: 45/47

tabulation: Freq. Value  
1 .15177149  
1 11.890106  
45 .

---

a\_ope\_logistics Operational: Logistics (A)

---

type: numeric (float)  
range: [.,.] units: .  
unique values: 0 missing .: 47/47

tabulation: Freq. Value  
47 .

---

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

---

type: numeric (float)  
range: [.,.] units: .  
unique values: 0 missing .: 47/47

tabulation: Freq. Value  
47 .

---



a\_ope\_supervision Operational: Supervision (A)

---

type: numeric (double)

range: [.8600384,.8600384] units: 1.000e-07  
unique values: 1 missing .: 46/47

tabulation: Freq. Value  
1 .8600384  
46 .

---

a\_ope\_training Operational: Training (A)

---

type: numeric (double)

range: [2.5143476,2.5143476] units: 1.000e-07  
unique values: 1 missing .: 46/47

tabulation: Freq. Value  
1 2.5143476  
46 .

---

a\_ope\_transportation Operational: Transportation (A)

---

type: numeric (double)

range: [2.4555653,3.4064267] units: 1.000e-10  
unique values: 2 missing .: 45/47

tabulation: Freq. Value  
1 2.4555653  
1 3.4064267  
45 .

---

a\_ope\_unspecified Operational: Unspecified (A)

---

type: numeric (double)

range: [2.8012304,42.713912] units: 1.000e-07  
unique values: 16 missing .: 31/47

mean: 10.4145  
std. dev: 9.54594

percentiles: 10% 25% 50% 75% 90%  
4.82524 5.56198 6.91402 11.6188 18.6601

---

a_prisd_circumcision_proced	Primary SD: Circumcision Procedure (A)
-----------------------------	--

---

```

      type:  numeric (float)

      range:  [.,.]           units:  .
unique values: 0           missing .: 47/47

      tabulation:  Freq.  Value
                   47    .

```

---

a_prisd_unspecified	Primary SD: Unspecified (A)
---------------------	-----------------------------

---

```

      type:  numeric (double)

      range:  [1.7375053,3.6762427]  units:  1.000e-07
unique values: 4           missing .: 43/47

      tabulation:  Freq.  Value
                   1    1.7375053
                   1    1.91705
                   1    2.1854141
                   1    3.6762427
                   43    .

```

---

a_secscd_hct	Secondary SD: HIV Counseling and Testing (A)
--------------	--

---

```

      type:  numeric (float)

      range:  [.,.]           units:  .
unique values: 0           missing .: 47/47

      tabulation:  Freq.  Value
                   47    .

```