# Retention/Adherence Data Validation Exercise before UCSR Entry

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#### Abstract

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

## 1 High-level codebook for all variables

Disease					sease 
			(str3)	string	type:
	0/38	missing "":		1	unique values:
			Value "HIV"	_	tabulation:
Collapsed					llapsed
		ngest is str2	(str3), but 1	string	type:
	0/38	missing "":		1	unique values:
			Value "No"	_	tabulation:
Lead Author					ad_author

type: string (str12)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "Marseille, E"

#### 10 "Rodrigues, R"

warning: variable has embedded blanks

ref\_year Reference Year \_\_\_\_\_\_ type: numeric (int) range: [2011,2014] units: 1 missing .: 0/38 unique values: 2 tabulation: Freq. Value 28 2011 10 2014 \_\_\_\_\_\_ output\_unit2 Output unit \_\_\_\_\_ type: string (str29) unique values: 3 missing "": 0/38 tabulation: Freq. Value 14 "cost per person served" 14 "cost per person-quarter of CM" 10 "cost per person-year" warning: variable has embedded blanks title Title type: string (str130) unique values: 2 missing "": 0/38 tabulation: Freq. Value "Case management to improve adherence for HIV-infected patients receiving antiretroviral therapy in Ethiopia: a micro-costing study" 10 "Mobile phones to support adherence to antiretroviral therapy: what would it cost the Indian National AIDS Control Program?" warning: variable has embedded blanks

Journal

journal\_etc

\_\_\_\_\_

type: string (str34)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "Cost Eff Resour Alloc. 2011; 9: 18" 10 "J Int AIDS Soc. 2014; 17(1): 19036"

warning: variable has embedded blanks

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url URL

type: string (str56)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "<https://www.ncbi.nlm.nih.gov/pmc/artic

les/PMC3264532/>."

10 "<https://www.ncbi.nlm.nih.gov/pmc/artic

les/PMC4154142/>."

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iso\_name Country

type: string (str8)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "Ethiopia" 10 "India"

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location

\_\_\_\_\_

type: string (str12)

unique values: 15 missing "": 0/38

examples: "Axum"

"Dessie" "Gondar" "Karnataka"

warning: variable has embedded blanks

no\_sites Sites

\_\_\_\_\_

type: numeric (byte)

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

tabulation: Freq. Value

28 1 10 2

-----

Urbanicity

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pop\_density

type: string (str5)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

6 "rural" 32 "urban"

ownership

ownersurb ownersur

type: string (str17)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "international NGO"

10 "mixed"

warning: variable has embedded blanks

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platform Platform

type: string (str15), but longest is str14

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "Fixed facility"

warning: variable has embedded blanks

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facility\_cat Platform specificity

type: string (str68), but longest is str37

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "Hospital - Tertiary (teaching)"

28 "Unspecified health care facility type"

warning: variable has embedded blanks

-----

id\_class Intervention Category

type: string (str18)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "Treatment and Care"

warning: variable has embedded blanks

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id\_int Intervention

type: string (str23)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "Retention and Adherence"

warning: variable has embedded blanks

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type: string (str298)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "The case management services consist of adherence counseling and support; health education; peer support; and referral of clients to community-based organizations equipped to address specific barriers to

adherence such as malnutrition, substance abuse or material needs for

clothin, rent, and food."

10 "The mHealth intervention deployed in the HIVIND trial had two components; the first was an automated IVR call and the second was a passive, neutral, picture message (SMS). Every patient in the intervention arm of the trial received each component of the mHealth intervention once a week."

warning: variable has embedded blanks

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clinical\_monitoring Clinical monitoring

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "."

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demand\_generation Demand generation

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value 38 "."

-----

counseling\_content Counseling content

type: string (str52)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "adherence counseling"

28 "adherence counseling, peer-support;

health education"

warning: variable has embedded blanks

staff\_type Staff type & number

type: string (str78)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "Case Manager (NR), Adherence Supporters (NR), Case Management Supervisors (NR)"

10 "Counselors (NR)"

warning: variable has embedded blanks

\_\_\_\_\_

supportive\_care Supportive care

type: string (str67)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "."

28 "nutrition support; substance abuse; material needs (clothing, rent)"

warning: variable has embedded blanks

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visits Visit type & number

type: string (str24)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "monthly follow-up visits"

28 "visits (NR)"

warning: variable has embedded blanks

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referrals Referrals

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type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value 38 "."

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method Method

type: string (str1)

unique values: 1 missing "": 0/38

tabulation: Freq. Value 38 "."

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id\_tech Technology

type: string (str39)

unique values: 4 missing "": 0/38

tabulation: Freq. Value

28 "."

3 "SMS reminders"
4 "SMS+IVR"

3 "interactive voice response (IVR)

system"

warning: variable has embedded blanks

tweetwent phase

treatment\_phase Treatment phase

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value 38 "."

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arv\_regimen ARV Regimen

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value 38 "."

\_\_\_\_\_\_

treatment Treatment

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value

\_\_\_\_\_

screening\_diagnoses

Screening and diagnosis

type: string (str3), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value 38 "."

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community\_awareness

Community awareness

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value 38 "."

health\_system



Health system

type: string (str39)

unique values: 4 missing "": 0/38

tabulation: Freq. Value 28 "."

3 "SMS reminders"
4 "SMS+IVR"

3 "interactive voice response (IVR)

\_\_\_\_\_

system"

warning: variable has embedded blanks

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id\_activities Costed activities

type: string (str63)

unique values: 4 missing "": 0/38

tabulation: Freq. Value

3 "adherence counseling, IVR"
3 "adherence counseling, SMS"
4 "adherence counseling, SMS+IVR"

28 "adherence counseling; health education;

### peer support; referrals"

warning: variable has embedded blanks

start\_month Start Month type: numeric (byte) range: [10,10] units: 1 unique values: 1 missing .: 10/38 tabulation: Freq. Value 28 10 10 . start\_year Start Year type: numeric (int) range: [2008,2008] units: 1 unique values: 1 missing .: 10/38 tabulation: Freq. Value 28 2008 10 . end\_month End Month type: numeric (byte) range: [9,9] units: 1 unique values: 1 missing .: 10/38 tabulation: Freq. Value 28 9 10 end\_year type: numeric (int) range: [2009,2009] units: 1 unique values: 1 missing .: 10/38

28 2009

tabulation: Freq. Value

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period\_portrayed Total Months

type: numeric (byte)

range: [12,12] units: 1 unique values: 1 missing .: 0/38

tabulation: Freq. Value 38 12

\_\_\_\_\_

year\_intro Year introduced at study site

type: numeric (int)

range: [2006,2006] units: 1 unique values: 1 missing .: 10/38

tabulation: Freq. Value

28 2006 10 .

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coverage

type: numeric (byte)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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id\_pop\_dem\_std Target group (demographic)

type: string (str18)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "General Population"

warning: variable has embedded blanks

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id\_pop\_clin\_std Target group (clinical)

type: string (str12) unique values: 1 missing "": 0/38 tabulation: Freq. Value 38 "HIV positive" warning: variable has embedded blanks pop\_age Average Age \_\_\_\_\_\_ type: string (str30) unique values: 2 missing "": 0/38 tabulation: Freq. Value 10 "." 28 "85% aged 20-45; 15% aged 46-65" warning: variable has embedded blanks pop\_sex Gender type: string (str11)

unique values: 2 missing "": 0/38

tabulation: Freq. Value 10 "."

28 "58% females"

warning: variable has embedded blanks

type: string (str14)

missing "": 0/38 unique values: 2

tabulation: Freq. Value 10 "."

28 "75% unemployed"

warning: variable has embedded blanks

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type: string (str14)

unique values: 2 missing "": 0/38

tabulation: Freq. Value 10 "."

28 "37% illiterate"

warning: variable has embedded blanks

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hiv\_prev HIV Prevalence

type: numeric (byte)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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tb\_prev TB Prevalence

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "."

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tb\_rx\_resistance TB Drug Resistance

unique values: 1 missing "": 0/38

tabulation: Freq. Value

type: string (str1)

38 "."

\_\_\_\_\_

costing\_purpose Costing Purpose

type: string (str213)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "To estimate unit costs of case

management services for ART patients in three provinces in Ethiopia, document the variation in costs, and explore opportunities for greater efficiency in

the provision of CM services"

10 "To study the costs of mobile phone

reminder strategies (mHealth

interventions) to support adherence in the context of India's National AIDS  $\,$ 

Control Program (NACP)."

warning: variable has embedded blanks

timing Timing

type: string (str15)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "cross-sectional"

country\_sampling Country Sampling

type: string (str3), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value 38 "."

\_\_\_\_\_\_

geo\_sampling\_incountry Geographic Area In Country Sampling

type: string (str9)

unique values: 2 missing "": 0/38

tabulation: Freq. Value 10 "."

28 "purposive"

\_\_\_\_\_\_

site\_sampling Site Sampling

type: string (str1)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "."

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px\_sampling Patient Sampling

type: string (str14)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "entire program"

10 "random"

warning: variable has embedded blanks

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sample\_size\_derived Sample size formally derived

type: string (str3)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "no" 10 "yes"

\_\_\_\_\_

controls

type: string (str3)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

econ\_perspective\_actual

28 "no" 10 "yes"

\_\_\_\_\_\_

Perspective

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type: string (str8)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

#### 38 "provider"

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type: string (str14)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "economic"

10 "financial only"

warning: variable has embedded blanks

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real\_world Real World / Per Protocol

type: string (str12)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "per protocol"
28 "real world"

warning: variable has embedded blanks

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asd\_costs Above Service Costs Included

type: string (str19)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "some costs included"

warning: variable has embedded blanks

list\_asd\_costs Above Service Cost List

type: string (str177)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "development of intervention and web interface, recording intervention

messages in different languages, equipment (laptop), hardware

maintenance, program officer salary,

overhead"

"overhead & administrative costs at headquarters"

warning: variable has embedded blanks

omitted\_costs Omitted Costs

type: string (str29)

missing "": 0/38 unique values: 2

tabulation: Freq. Value

28 "Patient costs"

10 "Patient costs, Buliding/space"

warning: variable has embedded blanks

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sensitivity\_analysis Sensitivity Analysis \_\_\_\_\_\_

type: string (str7)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "limited" 28 "none"

scale Economies of scale

type: string (str8)

missing "": 0/38 unique values: 2

tabulation: Freq. Value

> 28 "analyzed" 10 "ignored"

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Research Costs Included research\_costs

type: string (str8)

missing "": 0/38 unique values: 1

tabulation: Freq. Value
38 "excluded"

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type: string (str2)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "no"

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overhead Overhead Costs Included

type: string (str3)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "yes"

\_\_\_\_\_

type: string (str108)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "equipment (laptop, phone) for

demonstration, management personnel, "

28 "management personnel, curriculum development, office rental, travel costs, telecommunications, IT,

utilities"

warning: variable has embedded and trailing blanks

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type: string (str4)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

10 "."

28 "none" volunteer\_time Valuing Volunteer Time type: string (str3), but longest is str1 unique values: 1 missing "": 0/38 tabulation: Freq. Value 38 "." \_\_\_\_\_\_ Valuing Family Time family\_time \_\_\_\_\_\_ type: string (str3), but longest is str1 unique values: 1 missing "": 0/38 tabulation: Freq. Value 38 "." Patient-Incurred Costs Measured px\_costs\_measured type: string (str12) missing "": 0/38 unique values: 1 tabulation: Freq. Value "not included" 38 warning: variable has embedded blanks Catastrophic Cost Calculated cat\_cost type: string (str4) unique values: 1 missing "": 0/38 tabulation: Freq. Value "none" 38

Reported Currency Year

type: numeric (int)

currency\_yr

range: [2009,2013] units: 1 unique values: 2 missing .: 0/38

tabulation: Freq. Value

28 2009 10 2013

\_\_\_\_\_\_

iso\_code Reported Currency

type: string (str3)

missing "": 0/38 unique values: 2

tabulation: Freq. Value

10 "INR" 28 "USD"

Currency of Data Collection currency\_iso

type: string (str3)

unique values: 2 missing "": 0/38

tabulation: Freq. Value

28 "ETB" 10 "INR"

Currency Exchange Method currency\_x

type: string (str11)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "market only"

warning: variable has embedded blanks

Currency Exchange Rate current\_x\_rate

type: numeric (double)

range: [11.2,61.95] units: .01

missing .: 0/38 unique values: 2

tabulation: Freq. Value

28 11.2 10 61.95

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discount\_rate Discount Rate

type: numeric (byte)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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inflation Inflation rate

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "."

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mean\_cost Mean Unit Cost

type: numeric (double)

range: [11.1416,1537.0665] units: 1.000e-08

unique values: 36 missing .: 0/38

mean: 175.994 std. dev: 396.569

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

20.0549 28.9682 57.3792 100.523 160.439

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si\_personnel Personnel (SI)

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type: numeric (double)

range: [355193.53,355193.53] units: 1

unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 355193.53

34 .

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si\_per\_service\_delivery Personnel: Direct Service Delivery (SI)

type: numeric (double)

range: [39.600498,39.600498] units: 1

unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 39.600498

34 .

\_\_\_\_\_\_

si\_per\_support Personnel: Support (SI)

type: numeric (double)

range: [355153.93,355153.93] units: 1 unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 355153.93

34 .

-----

si\_per\_mixed\_unspec Personnel: Mixed Unspecified (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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si\_recurrent Recurrent Goods (SI)

\_\_\_\_\_\_

type: numeric (double)

range: [60599.6,60680.885] units: .001 unique values: 3 missing .: 34/38

tabulation: Freq. Value

1 60599.6

1 60670.047

2 60680.885

34 .

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si\_rec\_key\_drugs Recurring: Supplies (key drugs) (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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si\_rec\_med\_int\_supplies Recurring: Medical Supplies (excluding drugs) (SI)

type: numeric (double)

range: [10.838031,92.123263] units: 1.000e-06 unique values: 3 missing .: 34/38

unique varues. 5 missing ...

2 92.123263

34 .

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si\_rec\_nonmed\_int\_supplies Recurring: Non-medical Supplies (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

\_\_\_\_\_

si\_rec\_building\_space Recurring: Building Space (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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type: numeric (double)

range: [60588.762,60588.762] units: 1 unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 60588.762

34 .

si\_capital Capital (SI)

type: numeric (double)

range: [28345.617,28345.617] units: 1 unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 28345.617

34 .

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

type: numeric (double)

range: [11671.725,11671.725] units: 1 unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 11671.725

34 .

si\_cap\_equip\_non\_medical\_inter

Capital: Equipment (non-medical) (SI)

type: numeric (double)

range: [16673.893,16673.893] units: 1 unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 16673.893

34

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

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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si\_cap\_vehic Capital: Vehicles (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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si\_cap\_other Capital: Other (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

\_\_\_\_\_\_

si\_mixed Mixed (SI)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

\_\_\_\_\_\_

a\_primary\_sd Primary Service Delivery (A)

type: numeric (double)

range: [39.6005,131.72376] units: .00001

unique values: 3 missing .: 34/38

tabulation: Freq. Value

1 39.600498

1 120.88573

2 131.72376

34 .

a\_prisd\_rc\_counseling Primary SD: R&C Counseling (A)

\_\_\_\_\_

type: numeric (double)

range: [39.600498,39.600498] units: 1 unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 39.600498

34 .

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

type: numeric (double)

range: [81.28523,92.12326] units: .00001 unique values: 2 missing .: 35/38

tabulation: Freq. Value

1 81.285233 2 92.123263

35 .

a\_secondary\_sd Secondary Service Delivery (A)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38

a\_ancillary Ancillary (A)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

a_anc_demand_generation		Ancillary: Demand Generation (
type:	numeric (float)	
range:	[.,.]	units: .
unique values:		missing .: 38/38
tabulation:	Freq. Value 38 .	
a_anc_lab_services		Ancillary: Lab Services (A
type:	numeric (float)	
range:		units: .
unique values:	0	missing .: 38/38
tabulation:	Freq. Value 38 .	
a_anc_adhreten		Ancillary: Adherence/Retention (A
type:	numeric (float)	
range:	[.,.]	units: .
unique values:	0	missing .: 38/38
tabulation:	Freq. Value 38 .	
a_anc_unspecified		Ancillary: Unspecified (A
type:	numeric (float)	
range:	[.,.]	units: .
unique values:	0	missing .: 38/38
tabulation:	Freq. Value 38 .	

type: numeric (double)



range: [444088.31,444099.15] units: .01

unique values: 2 missing .: 34/38

tabulation: Freq. Value

3 444088.31 1 444099.15

34

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

type: numeric (double)

range: [18132.858,18132.858] units: 1 unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 18132.858

34 .

Operational: Logistics (A) a\_ope\_logistics

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

type: numeric (double)

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

range: [322639.84,322639.84] units: 1

unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 322639.84

a\_ope\_supervision Operational: Supervision (A)

type: numeric (double)

range: [32514.092,32514.092] units: 1

unique values: 1 missing .: 34/38 tabulation: Freq. Value

4 32514.092

34 .

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a\_ope\_training Operational: Training (A)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

\_\_\_\_\_

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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\_\_\_\_\_\_

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

a\_ope\_hmis Operational: HMIS and Record-Keeping (A)

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type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .

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a\_ope\_technology\_development

Operational: Technology development (A)

type: numeric (double)

range: [11671.725,11671.725] units: 1 unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 11671.725

34 .

\_\_\_\_\_\_

type: numeric (double)

range: [40371.666,40371.666] units: 1

unique values: 1 missing .: 34/38

tabulation: Freq. Value

4 40371.666

34 .

-----

a\_mixed Mixed (A)

type: numeric (float)

range: [.,.] units: .

unique values: 0 missing .: 38/38

tabulation: Freq. Value

38 .