

STI Data Validation Exercise before UCSR Entry

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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 "": 0/38

tabulation:	Freq.	Value
	38	"HIV"

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

type: string (str3), but longest is str2

unique values: 1 missing "": 0/38

tabulation:	Freq.	Value
	38	"No"

lead_author	Lead 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

unique values: 2 missing .: 0/38

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

28	"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_etc	Journal
-------------	---------

```

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

```

```

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/>."

```

```

iso_name                                                                Country

```

```

type: string (str8)

unique values: 2                missing "": 0/38

tabulation: Freq. Value
             28 "Ethiopia"
             10 "India"

```

```

location                                                                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
-----

pop_density                                         Urbanicity
-----

                type:  string (str5)

unique values:  2                missing "":  0/38

                tabulation:  Freq.  Value
                             6    "rural"
                             32    "urban"
-----

ownership                                         Ownership
-----

                type:  string (str17)

unique values:  2                missing "":  0/38

                tabulation:  Freq.  Value
                             28    "international NGO"
                             10    "mixed"

                warning:  variable has embedded blanks
-----

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
-----

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

```

```

id_int                                                    Intervention

```

```

        type: string (str23)
unique values: 1                               missing "": 0/38

tabulation: Freq. Value
              38 "Retention and Adherence"

warning: variable has embedded blanks

```

```

int_description_long                                    Intervention Description (Long)

```

```

        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

```

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

```
type: string (str2), but longest is str1
```

```
type: string (str2), but longest is str1
```

```
type: string (str52)
```

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

```
type:  string (str78)
```

6

```

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

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

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

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

```

tabulation: Freq. Value
             38 "."

```

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

type: string (str1)

```

unique values: 1                                missing "": 0/38

tabulation: Freq. Value
              38 "."

```

```

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

```

```

treatment_phase                                          Treatment phase

```

```

type: string (str2), but longest is str1

unique values: 1                                missing "": 0/38

tabulation: Freq. Value
              38 "."

```

```

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
              38 "."

```

screening_diagnoses Screening and diagnosis

type: string (str3), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38	"."
----	-----

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

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	End Year
----------	----------

type: numeric (int)

range: [2009,2009] units: 1
unique values: 1 missing .: 10/38

tabulation: Freq. Value
 28 2009
 10 .

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   .

```

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

```

type: numeric (byte)

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

tabulation: Freq. Value
              38   .

```

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

```

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

```

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

```

        type: string (str14)

unique values: 2                                missing "": 0/38

tabulation: Freq. Value
              10 "."
              28 "75% unemployed"

warning: variable has embedded blanks

```

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

```

-----
                type: string (str14)

unique values: 2                                missing "": 0/38

tabulation: Freq. Value
              10 "."
              28 "37% illiterate"

warning: variable has embedded blanks

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

                type: numeric (byte)

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

tabulation: Freq. Value
              38 .

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

                type: string (str2), but longest is str1

unique values: 1                                missing "": 0/38

tabulation: Freq. Value
              38 "."

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

                type: string (str1)

unique values: 1                                missing "": 0/38

tabulation: Freq. Value
              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

```

timingTiming
```

```

      type: string (str15)

unique values: 1                missing "": 0/38

      tabulation: Freq. Value
                  38 "cross-sectional"
```

```

country_samplingCountry Sampling
```

```

      type: string (str3), but longest is str1

unique values: 1                missing "": 0/38

      tabulation: Freq. Value
                  38 "."
```

```

geo_sampling_incountryGeographic Area In Country Sampling
```

```

      type: string (str9)

unique values: 2                missing "": 0/38

      tabulation: Freq. Value
                  10 "."
                  28 "purposive"
```

```

site_samplingSite Sampling
```

```

      type: string (str1)
```

unique values: 1 missing "": 0/38

tabulation: Freq. Value
38 "."

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

sample_size_derived Sample size formally derived

type: string (str3)

unique values: 2 missing "": 0/38

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

controls Controls

type: string (str3)

unique values: 2 missing "": 0/38

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

econ_perspective_actual Perspective

type: string (str8)

unique values: 1 missing "": 0/38

tabulation: Freq. Value
38 "provider"

econ_costing	Economic / Financial
--------------	----------------------

```

type: string (str14)

unique values: 2                missing "": 0/38

tabulation: Freq. Value
              28 "economic"
              10 "financial only"

warning: variable has embedded blanks

```

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

```

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"
28 "overhead & administrative costs at
headquarters"

warning: variable has embedded blanks

omitted_costs	Omitted Costs
---------------	---------------

type: string (str29)

unique values: 2 missing "": 0/38

tabulation:	Freq.	Value
	28	"Patient costs"
	10	"Patient costs, Buliding/space"

warning: variable has embedded blanks

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)

unique values: 2 missing "": 0/38

tabulation:	Freq.	Value
	28	"analyzed"
	10	"ignored"

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

type: string (str8)

unique values: 1 missing "": 0/38

```

      tabulation: Freq. Value
                  38 "excluded"

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

      type: string (str2)

unique values: 1                                     missing "": 0/38

      tabulation: Freq. Value
                  38 "no"

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

      type: string (str3)

unique values: 1                                     missing "": 0/38

      tabulation: Freq. Value
                  38 "yes"

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

      type: string (str108)

unique values: 2                                     missing "": 0/38

      tabulation: Freq. Value
                  10 "equipment (laptop, phone) for
                  28 "management personnel, curriculum
                     development, office rental, travel
                     costs, telecommunications, IT,
                     utilities"

      warning: variable has embedded and trailing blanks

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

      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 "."

family_time Valuing Family Time

type: string (str3), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "."

px_costs_measured Patient-Incurred Costs Measured

type: string (str12)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "not included"

warning: variable has embedded blanks

cat_cost Catastrophic Cost Calculated

type: string (str4)

unique values: 1 missing "": 0/38

tabulation: Freq. Value

38 "none"

currency_yr Reported Currency Year

type: numeric (int)

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)

unique values: 2 missing "": 0/38

tabulation: Freq. Value
10 "INR"
28 "USD"

currency_iso Currency of Data Collection

type: string (str3)

unique values: 2 missing "": 0/38

tabulation: Freq. Value
28 "ETB"
10 "INR"

currency_x Currency Exchange Method

type: string (str11)

unique values: 1 missing "": 0/38

tabulation: Freq. Value
38 "market only"

warning: variable has embedded blanks

current_x_rate Currency Exchange Rate

type: numeric (double)

range: [11.2,61.95] units: .01
unique values: 2 missing .: 0/38

tabulation: Freq. Value
28 11.2

10 61.95

discount_rate

Discount Rate

type: numeric (byte)

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

tabulation: Freq. Value
 38 .

inflation

Inflation rate

type: string (str2), but longest is str1

unique values: 1 missing "": 0/38

tabulation: Freq. Value
 38 "."

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

si_personnel

Personnel (SI)

type: numeric (double)

range: [355193.53,355193.53] units: 1
unique values: 1 missing .: 34/38

tabulation: Freq. Value
 4 355193.53
 34 .

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 .

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 .

si_rec_key_drugs Recurring: Supplies (key drugs) (SI)

```

        type: numeric (float)

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

        tabulation: Freq. Value
                     38 .

```

```

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

```

```

        type: numeric (double)

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

        tabulation: Freq. Value
                     1 10.838031
                     1 81.285233
                     2 92.123263
                     34 .

```

```

si_rec_nonmed_int_supplies                  Recurring: Non-medical Supplies (SI)

```

```

        type: numeric (float)

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

        tabulation: Freq. Value
                     38 .

```

```

si_rec_building_space                      Recurring: Building Space (SI)

```

```

        type: numeric (float)

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

        tabulation: Freq. Value
                     38 .

```

```

si_rec_other                              Recurring: Other (SI)

```

```

        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 .

si_cap_vehic Capital: Vehicles (SI)

type: numeric (float)

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

tabulation: Freq. Value
38 .

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

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 (A)

type: numeric (float)

range: [.,.] units: .
unique values: 0 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 .

a_operational Operational (A)

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 .

a_ope_logistics Operational: Logistics (A)

type: numeric (float)

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

tabulation: Freq. Value
38 .

a_ope_program_mgmt Operational: Program Management (A)

type: numeric (double)

range: [322639.84,322639.84] units: 1
unique values: 1 missing .: 34/38

tabulation: Freq. Value
4 322639.84
34 .

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 .

```

```

a_ope_trainingOperational: Training (A)

```

```

type: numeric (float)

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

tabulation: Freq. Value
              38 .

```

```

a_ope_transportationOperational: Transportation (A)

```

```

type: numeric (float)

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

tabulation: Freq. Value
              38 .

```

```

a_ope_massedOperational: Mass Education (A)

```

```

type: numeric (float)

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

tabulation: Freq. Value
              38 .

```

```

a_ope_hmisOperational: HMIS and Record-Keeping (A)

```

```

type: numeric (float)

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

tabulation: Freq. Value
              38 .

```

```

a_ope_technology_developmentOperational: 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  .

```

```

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

```

```

                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  .

```